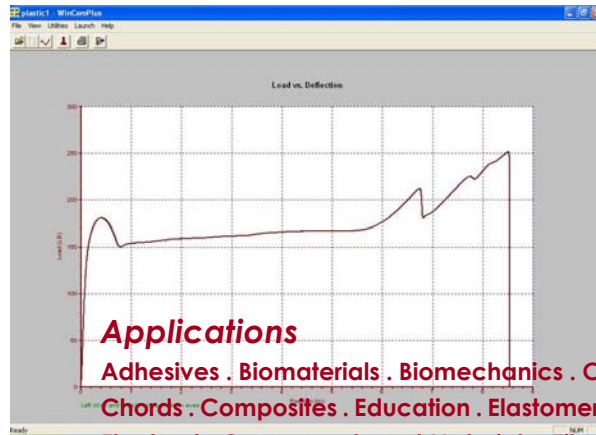


# eXpert 560x Universal Testing Machines



eXpert 5601 with standalone eP Digital Controller and pneumatic grips.

The eXpert 560x series is a bold and flexible new approach to low force testing at an affordable price. The rigid frame, top acting detachable actuator, detachable electronics and several motor/drive combinations allow for a variety of machine configurations. The actuator and electronics can also be sealed from moisture and airborne particles so that it can operate maintenance free in the harshest of environments. The eXpert 560x performs tension, compression and bend tests from less than 1 lb to 1,400 lb (6.2 kN). Some models are capable of speeds in excess of 200 in/min (5,000 mm/min) for high speed testing.



## Applications

Adhesives . Biomaterials . Biomechanics . Ceramics .  
 Chords . Composites . Education . Elastomers .  
 Electronic Components and Materials . Films . Foam .  
 Gasket Material . Glass . Labels . Medical Devices .  
 Metals . Paper Products . Plastics . Rubber . Seals  
 Textiles . Wire . Research . Production . Quality  
 Control . Harsh Environments



## A Flexible Design for a Variety of Tests

The table top load frame with precision actuator and fast acting servo motor provides controllability at very light loads and rigidity for loads to machine capacity. The standard frame assembly can be user configured for vertical or horizontal operation. With the top-acting actuator, wet specimens can be tested without damaging the controls. Seal the actuator using the optional neoprene bellows and the machine will operate trouble free in dusty abrasive environments. For sub-zero or elevated temperature tests, mount an environmental chamber and the eXpert 560x actuator on the optional two column frame or mount the actuator on a frame of your own design.



eXpert 5601 in horizontal configuration with detached controller.

## Advanced Digital Control

The eXpert 560x machines come equipped with ADMET's eP Digital Controller or MTESTQuattro(R) pc based Materials Testing System. The eP Digital Controller is a standalone unit well suited for quality control testing. MTESTQuattro(R) is our most advanced controller featuring five channels of load, position, strain and auxiliary inputs. It is capable of performing your tests according to most demanding specifications. Both controllers perform digital closed loop control of the machine's servomotor for accurate and repeatable testing.



eXpert 5601 actuator mounted on a two column frame for use with a temperature chamber or larger specimens (optional).



Optional actuator seal kit prevents dirt, dust and fibres from contaminating the actuator housing.



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**Test with Certainty. Test with ADMET.**



## eXpert 560x Specifications

Model		5601	5601QP	5602	5603	5606	5607	Two Column Frame Option
Load Capacity	lbf kN kgf	225 1 100	100 0.5 50	500 2.2 225	1,000 4.5 450	1,400 6.2 630	1 0.004 0.45	Any actuator can be mounted
Maximum Speed	in/min mm/min	25 635	180 4570	7 178	20 504	0.9 23	300 7,620	-- --
Minimum Speed	in/min mm/min	0.001 0.025	0.005 0.05	0.0005 0.012	0.001 0.025	0.00001 0.00025	0.01 0.25	-- --
Maximum Force at Full Speed	lbf kN	225 1	20 0.1	500 2.2	800 3.6	1,400 6.2	1 0.004	-- --
Position Control Resolution	uin um	2.9 0.073	14.6 0.38	0.87 0.022	2.2 0.057	0.1 0.0025	35 0.88	-- --
Total Crosshead Travel	in mm	12 305	12 305	12 305	12 305	12 305	12 <sup>5</sup> 305	-- --
Total Vertical Test Space <sup>1</sup>	in mm	31 787	31 787	31 787	31 787	31 787	31 787	32 813
Lateral Test <sup>2</sup> Space	in mm	3.5 89	3.5 89	3.5 89	3.5 89	3.5 89	3.5 89	-- --
Space Between Columns	in mm	-- --	-- --	-- --	-- --	-- --	-- --	16.5 419
Height <sup>3</sup> (Vertical Frame)	in mm	53.3 1354	53.3 1354	53.3 1354	53.3 1354	53.3 1354	53.3 1354	54.3 1379
Width (Vertical Frame)	in mm	18.9 480	18.9 480	18.9 480	18.9 480	18.9 480	18.9 480	19.5 495
Depth (Vertical Frame)	in mm	15.1 384	15.1 384	15.1 384	15.1 384	15.1 384	15.1 384	16 406
Weight	lbf kgf	45 20.5	45 20.5	48 22	70 32	70 32	45 20.5	80 36
Maximum Power	VA	100	350	100	250	100	100	--
Single Phase Voltage	VAC Hz	100-240 47-63	100-240 47-63	100-240 47-63	110,220 50,60	100-240 47-63	100-240 47-63	-- --

**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 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 when the actuator is adjusted to its highest point on the vertical column. Larger openings can be accommodated by ordering an extended column.
- 2) Larger Lateral Test Spaces can be special ordered.
- 3) Height is measured when the actuator is adjusted to its highest point on the vertical column.
- 4) Noise level measured at full speed and 1m from machine is 60db.
- 5) Tension only applications. Maximum stroke in compression is 3 in.

**Training and Service** - ADMET testing systems are easy to learn and use. Our software is intuitive and effective. We provide 2 hours of free on line training and if you desire, we will provide additional on-site training. In addition, our manuals, tutorials, and trouble shooting guides are an excellent resource that we update regularly. We also offer free phone, email and product support over the internet for the life of the product. This is in contrast to many of our competitors who require that you pay for training before you are even eligible for phone and email support. ADMET's on-site service and calibration team includes over 100 individuals in over 40 locations in the USA.

**Calibration**- Customers who wish to mainstream calibration in their laboratories or production plants can setup calibration contracts with ADMET. These contracts offer automatic calibration services based upon each customer's required calibration interval. This automation reduces paperwork, scheduling problems and leaves you in a better frame of mind when it comes to knowing that your calibration needs will always be met. You will never have to worry about equipment that may have been overlooked for calibration, especially during an audit. All services are A2LA accredited and meet the ISO/IEC Guide 17025 and ANSI/NCSL Z540-Requirements.