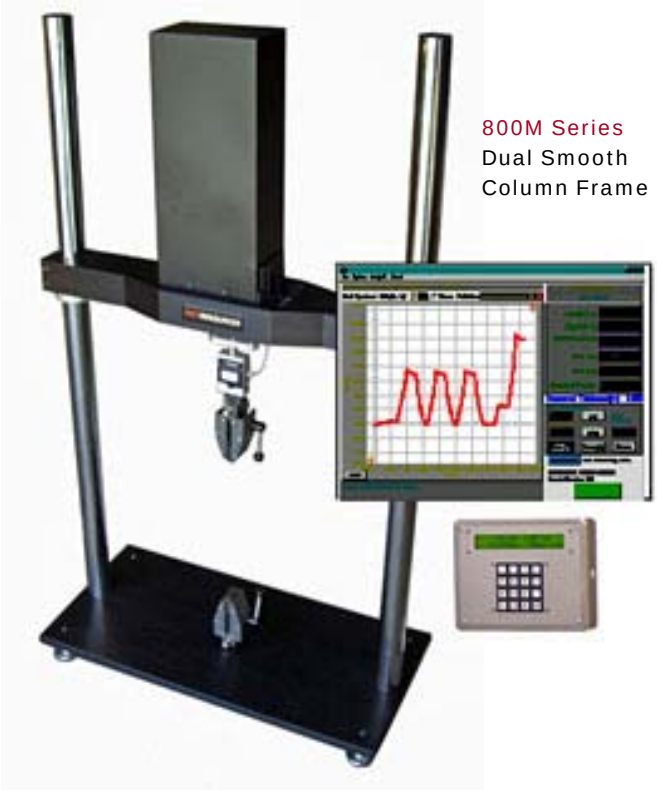
M Series Mechanical Test Machines

Standalone or PC Based – Your choice
Tension & Compression
Force ratings to 1500 lb (6.6 kN)

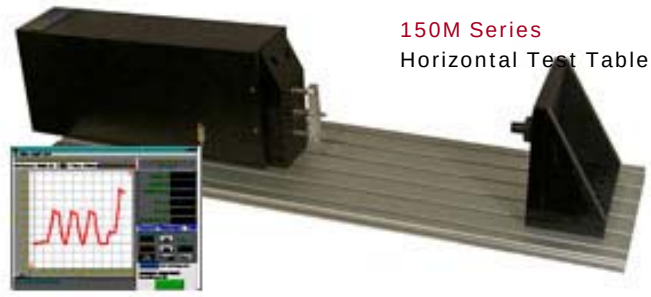
100M Series
Single Column Frame



800M Series
Dual Smooth
Column Frame

Choices & Options

- **Load Frame Style** - single or dual column, or horizontal test tables
- **Actuator Performance** – force rating, speed range and stroke
- **Standalone or PC based** – optional data export and plotting software
- **Load Cell** – many to choose from - full scale rating
- **Testing Accessories** – grips, fixtures, chambers and engineered solutions



150M Series
Horizontal Test Tables

120M Series
Dual Column
Frame

TestResources Inc – 680 Industrial Circle South – Shakopee MN USA 55379
800.430.6536 952.944.6534 Fax 952.233.3682
www.testresources.com

Modular Systems Approach

TestResources test systems are configured to serve each customers test requirements. Each P Series system consists of a load frame or horizontal test table, an actuator, load and position transducer, test controller, and software. Due to a modular product structure, system modules can be swapped or re-configured during as requirements change.

M Controller * Standalone or PC Based * Multiple Segments * Cyclic Mode

The M controller is capable of either standalone use or PC based testing. The standalone mode produces a single ramp constant test speed or constant test load.

The hardware includes an optional strain channel and features live data access to and from the controller via RS232 Serial port.

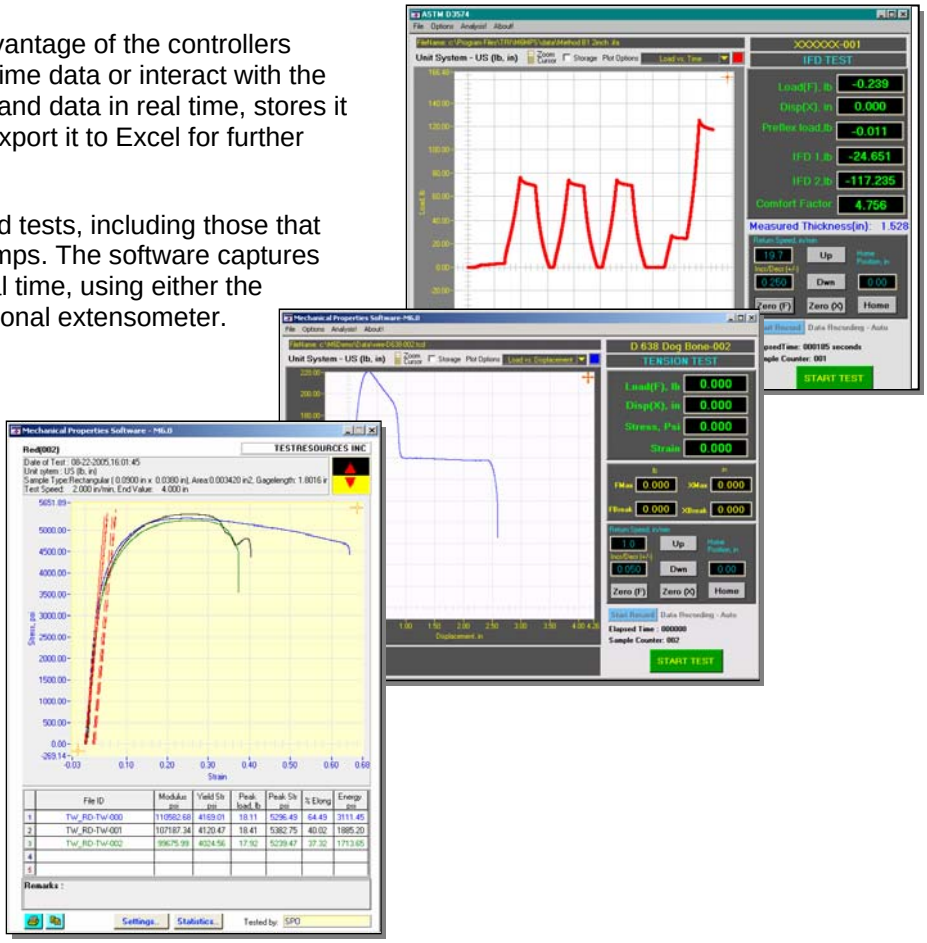
The display features large sized live load and position readout and a keypad for operator input.

M Standalone controls serve single ramp - pull to failure tests where peak load and displacement at break information is needed. The test data is displayed automatically at the end of the test.

MPLUS Test Software

The MPLUS optional software takes advantage of the controllers open RS232 Serial port to capture real time data or interact with the controller. MPLUS plots the test results and data in real time, stores it for later recall and enables the user to export it to Excel for further analysis.

MPLUS is suited to serve many standard tests, including those that require sequenced multiple segment ramps. The software captures and plots the stress – strain curve in real time, using either the machine displacement sensor or an optional extensometer.



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D Series * Electromechanical * Screw Driven * Servoactuators

D Series servoactuators include a servomotor, encoder, linear bearings, and integrated limit detection to protect the actuator in case of over travel conditions and well suited for quasistatic (slower) tests common to material and product testing applications. They are available in a variety of speeds, travels and load ratings.

System Configurations and Specifications

100M Series Single Column Systems

Model	Units	100M250	100M500	100M1000	100M1400	100M1020	100M1500
Max Load	lb (kN)	250 (1.1)	500 (2.2)	1000 (4.4)	1400 (6.2)	1000 (4.4)	1500 (6.6)
Max Speed	ipm (mm/m)	25 (625)	7 (625)	2.2 (55)	0.9 (23)	15 (375)	7 (625)
Stroke	6" or 12"						
Load Accuracy	+/- 0.5% of reading to 1/200 of load cell --- Meets ASTM E4, BS EN ISO 7500-1: 2004, DIN 51221						
Vertical Space	Manually adjustable 0-31"						
Lateral Space	3.5" (blocks optional for increased space)						
Footprint	12" x 12"						

120M Series Dual Column Systems

Model	Units	120M250	120M500	120M1000	120M1400	120M1020	120M1500
Max Load	lb (kN)	250 (1.1)	500 (2.2)	1000 (4.4)	1400 (6.2)	1000 (4.4)	1500 (6.6)
Max Speed	ipm (mm/m)	25 (625)	7 (625)	2.2 (55)	0.9 (23)	15 (375)	7 (625)
Stroke	6" or 12"						
Load Accuracy	+/- 0.5% of reading to 1/200 of load cell --- Meets ASTM E4, BS EN ISO 7500-1: 2004, DIN 51221						
Vertical Space	Designed to requirements						
Lateral Space	Designed to requirements						
Baseplates	Designed to requirements – T Slotted or threads placed as needed – sized to needs						

150M Series Horizontal Test Tables

Model	Units	150M250	150M500	150M1000	150M1400	150M1020	150M1500
Max Load	lb (kN)	250 (1.1)	500 (2.2)	1000 (4.4)	1400 (6.2)	1000 (4.4)	1500 (6.6)
Max Speed	ipm (mm/m)	25 (625)	7 (625)	2.2 (55)	0.9 (23)	15 (375)	7 (625)
Stroke	6" or 12"						
Load Accuracy	+/- 0.5% of reading to 1/200 of load cell --- Meets ASTM E4, BS EN ISO 7500-1: 2004, DIN 51221						
Test Space	Adjustable – Length of table made to requirements						
Lateral Space	3.5" (blocks optional for increased space)						
Baseplates	T Slotted or threads placed as needed – sized to needs						

800M Series Dual Smooth Column Systems

Model	Units	Q250	Q500	Q1000	Q1400	Q1020	Q1500
Max Load	lb (kN)	250 (1.1)	500 (2.2)	1000 (4.4)	1400 (6.2)	1000 (4.4)	1500 (6.6)
Max Speed	ipm (mm/m)	25 (625)	7 (625)	2.2 (55)	0.9 (23)	15 (375)	7 (625)
Stroke	6" or 12"						
Load Accuracy	+/- 0.5% of reading to 1/500 of load cell --- Meets ASTM E4, BS EN ISO 7500-1: 2004, DIN 51221						

Model	Vertical Space	Lateral Test Space	Footprint
800	33” – optional 45”, 57”	16” Wide	6.5” x 22”
801	33” – optional 45”, 57”	20” Wide	6.5” x 26”
802	33” – optional 45”, 57”	24” Wide	6.5” x 30”
80x	33” – optional 45”, 57”	x” Wide	6.5” x 40”