

ESM1500 and ESM750 single-column force testers are highly configurable solutions for tension and compression measurement applications, with capacities of 1,500 lbF (6.7 kN) and 750 lbF (3.4 kN), respectively. With generous travel and clearance, they are suitable for break testing, cycling, limit testing to a load or distance, loadholding, elongation testing, tensile testing, compression testing, and more


MARK-10®

Manufacture: Mark 10

 SKU: **ESM750SFG**

 Free Ground Shipping within the
 48 continental US States

**Please Call
 (800)832-0055**

Features

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Satisfy various test methods through an intuitive menu with selectable test parameters, such as speed, number of cycles, etc. Up to 50 profiles may be saved and password protected. Crosshead positioning for sample setup is a breeze with available FollowMe®. Using your hand as your guide, push and pull on the load to move the crosshead at a dynamically variable speed.

The stands feature a unique modular controller function platform. Functions such as travel measurement, cycling, etc. are offered individually, accommodating a wide range of budgets and applications. Collect force and travel data, plot and analyze results, and control test stand motion via MESUR®gauge Plus software. Or, fully control the stand by a PC through a custom application.

- Broad force range and clearance dimensions
- Compatible with load cells and force gauges
- USB output of force vs. time or force vs. distance
- Adjustable, removal control panel with intuitive menu navigation
- Unique modular function platform - select functions as required for the application
- Password protection of test parameters
- Stepper motor-driven, producing smooth and quiet operation with no speed variation under load
- Compact footprint, suitable for crowded workbenches
- Most electronics are housed in an integrated removeable enclosure, easily accessed for service

Key Features and Options

FollowMe™ dynamic positioning Using your hand as your guide, push and pull on the load cell or force gauge to move the crosshead. Re-sponsive enough for quick positioning as well as fine adjustments

Simple controller interface Rugged aluminum up/down/stop keys are designed for industrial environments. Zero Travel and FollowMe™ keys add convenience. Removable for remote use. See the following page for a full list of available functions.

Limit switches Adjustable upper and lower solid state limit switches stop test stand travel with 0.001 in. [0.025 mm] repeatability.

Modular design Most electronics are housed in an integrated enclosure,easily accessible and remov-able for updating and service.

Indicators Choose from three indicator models. Consider a Model 7i or 5i to take full advantage of all test stand functions.

Series R01 force sensors (load cells) Rugged S-beam design. Avail- able in capacities from 50 to 2,000 lbF [250 N to 10 kN].

Series R03 force sensors (load cells) Enclosed design. Available in capacities from 0.25 to 100 lbF [1 to 500 N]

Force gauges Choose from several gauge series. Consider a Series 7 or 5 gauge to take advantage of all test stand functions.

Optional mounting plate, threaded hole matrix A matrix of #10-32 threaded holes is provided, along with a 5/16-18 center hole

Optional mounting plate, m ultiple hole thread sizes Three thread sizes are provided [#10-32, 5/16-18, and 1/2-20], along with an array of four 1/4-28 holes

MESUR TM gauge data collection software Output force vs. time or force vs. distance data from the ESM1500’s USB port. MESUR TM gauge graphs,tabulates, calculates statistics, and provides report-ing and output tools

Optional Functions Any of the below functions may be purchased at time of order or may be activated in the field at a later date via an activation code. A complete options package is also available at a discounted price. The stand is supplied in Demo Mode, a 160-hour time period in which all functions are temporarily enabled

Specifications

Model	ESM1500LC	ESM1500FG	ESM1500SLC	ESM1500SFG	ESM750LC	ESM750FG	ESM750SLC	ESM750SFG
Mount Type	Load Cell	Force Gauge	Load Cell	Force Gauge	Load Cell	Force Gauge	Load Cell	Force Gauge
Load capacity	1,500 lbF [6.7 kN] at < 60 in [1,525 mm]/min				750 lbF [3.4 kN] at < 35 in [900 mm]/min			
	1,000 lbF [4.5 kN] at > 60 in [1,525 mm]/min				500 lbF [2.3 kN] at > 35 in [900 mm]/min			
Speed range	Standard : 0.5 - 24 in/min [10 - 600 mm/min]							
	Optional: 0.001 - 90 in/min [0.02 - 2,300 mm/min]				Optional: 0.001 - 60 in/min [0.02 - 1,525 mm/min]			
Maximum travel:	32 in [813 mm]		14.2 in [360 mm]		32 in [813 mm]		14.2 in [360 mm]	
Speed setting accuracy	±0.2%							
Speed variation with load	±0% [Stepper motor driven]							
Travel accuracy	±0.002 in. per 10 in. [±0.05 mm per 250 mm]							
Travel resolution	0.001 in [0.02 mm]							
Limit switch repeatability	±0.001 in [0.03 mm]							
Power	Universal input 80-240 VAC, 50/60 Hz, 450 W				Universal input 80-240 VAC, 50/60 Hz, 120 W			
Weight	Test stand: 198 lb [90 kg]		Test stand: 160 lb [72 kg]		Test stand: 198 lb [90 kg]		Test stand: 150 lb [68 kg]	
	Shipping weight: 248 lb [113 kg]		Shipping weight: 206 lb [93 kg]		Shipping weight: 248 lb [113 kg]		Shipping weight: 198 lb [88 kg]	

Included accessories:

- 1 x G1081 eye end
- 1 x G1080 anchor pin
- 2 x G1079 lock ring, 3/4-16
- 2 x G1088 spanner wrench
- 1 x Load cell / indicator mounting kit (-LC test stands)
- 1 x Force gauge mounting kit (-FG test stands)
- 1 x USB cable
- 1 x Interface cable, gauge/indicator to test stand
- 4 x Thumb screw for indicator / force gauge
- 1 x Allen wrench set
- 1 x Control panel
- 1 x Control panel mounting bracket with hardware
- 1 x Power cord
- 1 x Resource CD

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