



# MARK-10

## ESM

- TENSION & COMPRESSION
- CAPACITY: 200 lbf/100 kgf/1000 N
- DIGITAL FORCE & TRAVEL DISPLAY
- STEPPER MOTOR DRIVE
- CONSTANT SPEED UNDER LOAD
- OVERLOAD PROTECTION
- ECONOMICAL PRICE: \$2500



**ESM**  
Motorized Force Test Stand

Made in America, the ESM provides tension and compression testing to 200 lbf / 100 kgf / 1000 N with a precision stepper motor preventing speed variation under load for excellent test repeatability.

Force data is displayed by digital force gauges with computer output and many other features.

### Options Include:

- **Digital Travel Display** - 6" [152 mm] travel, 0.0005 [0.01 mm] resolution with computer interface for automated data collection.
- **Travel Limit Switch Kit** - Set of adjustable upper and lower limit switches with solid state control, repeatable within 0.001" [0.03 mm].
- **Force Set Point Cable** - Stops travel at high and low force set points; programmable at force gauge.

### CONSTRUCTION

- Stainless steel columns and stepper motor drive.
- Column length: 22" [560 mm]; other lengths available.
- Removable base plate with pattern of 25 #10-32 threaded holes.
- Manual fine adjustment knob for set-up positioning.
- Maximum vertical clearance: approx. 14" [355 mm] depending on gauge.
- Maximum vertical travel: 13" [330 mm].
- Maximum horizontal clearance: 3" [75 mm].
- Speed range: 0.5 - 13 in/min [13 - 330 mm/min].

### OPERATION

- Remote console for up/down and variable speed control.
- Stepper motor for no speed variation under load.
- Compression testing with 2" [50 mm] diameter plate.
- Tension testing with force gauge and test stand hooks.

### ACCESSORIES

- Small and large hooks, 2" [50 mm] diameter compression plate, force gauge mounting and tool kit.

### WEIGHT & DIMENSIONS

- 17 lb. [8 kg]
- 22" [560 mm] H x 10" [255 mm] W x 6" [150 mm] D

MODEL	DESCRIPTION	PRICE
ESM	Motorized Test Stand - 200 lbf / 100 kgf / 1000 N	\$2300
ESM001	Digital Travel Display 6" x 0.0005" [150 mm x 0.01 mm]	750
MRS100A	Communication Adapter - ESM001 to PC	265*
ESM002	Travel Limit Switch Kit - Upper/Lower	450
09-1090	Cable, Force Set Point - M5 to ESM	145
11-1042	Overload Protection Module, M5 to ESM	195

\* Includes 09-1066 Cable, ESM001 to MRS100A.

MODEL	FORCE GAUGES	PRICE
M5-XXX	Mark-10 Digital Force Gauge 2 - 100 lbf/1 - 50 kgf/10 - 500 N	\$995*
M5-200	Mark-10 Digital Force Gauge 200 lbf/100 kgf/1000 N	1145*
09-1048A	Cable, RS232 - M5 to PC	75
FDIX/CA-USB	Cable, RS232 to USB	35**

\* Refer to force gauge pages for model numbers and specifications.

\*\* Includes cable, driver and manual on a CD; converts RS232 to USB.

MODEL	FORCE TESTING SOFTWARE	PRICE
15-1004	MESURgauge Force Testing Software	\$495*
FDIX/KI	Key Injector Software - PC Software Link	50**

\* Feature rich force testing software - force vs. distance analysis.

\*\* Links data received at PC port to operational software, e.g., Excel, etc.

NOTE: USB computer operation requires both RS232 and USB cables.

Prices and specifications are subject to change without notice.

www.wagnerinstruments.com

## CALL US TOLL FREE 800-345-4188

