

# MARK-10

## TSF

- TENSION & COMPRESSION
- CAPACITY: 1000 lbf/500 kgf/5000 N
- DIGITAL FORCE & TRAVEL DISPLAY
- PRECISION HANDWHEEL DRIVE
- ECONOMICAL PRICE: \$2100



**TSF**  
Manual Force Test Stand

Made in America, the TSF provides **tension and compression testing to 1000 lbf / 500 kgf / 5000 N** with **precision handwheel and worm drive** elevating mechanism for gradual repeatable force application.

**Force data** is displayed by a selection of **digital force gauges** providing computer output and many other features.

**Travel data** is displayed by a **digital travel display** with computer output.

**MESURgauge force testing software** provides easy set up and user friendly data logging and graphing of force vs. distance for spring testing.

### CONSTRUCTION

- Rugged and exceptionally rigid extruded aluminum column.
- Column length of 30" [762 mm], other lengths available.
- Removable platen with pattern of 25 #10 - 32 threaded holes.
- Maximum vertical clearance: approx.: 14" [356 mm] depending on gauge.
- Maximum vertical travel: 4.00" [102 mm].
- Maximum horizontal clearance: 4.35" [110 mm].
- Travel rate: 0.013" [0.33 mm] per handwheel revolution.

### OPERATION

- Precise handwheel tension and compression testing.
- Compression testing with 2" [51 mm] and 3" [76 mm] diameter plates.
- Tension testing with force gauge and test stand hooks.

### ACCESSORIES

- Small, medium, and large hooks, 2" [51 mm] and 3" [76 mm] diameter compression platens, #10-32 and 5/16-18 couplings, force gauge mounting and tool kit.

### WEIGHT & DIMENSIONS

- 36 lb [16 kg]      • 32" [813 mm] H x 8" [203 mm] W x 9.5" [241 mm] D

MODEL	DESCRIPTION	PRICE
TSF	Test Stand, handwheel, 1000 lbf, vertical	<b>\$2100</b>
TSFH	Test Stand, handwheel, 1000 lbf, horizontal	<b>2100</b>
TSF001	Digital Travel Display - 6" x 0.005" [150 mm x 0.01 mm]	<b>750</b>
MRS100A	Communication Adapter - TSF001 to PC	<b>265</b>

MODEL	FORCE GAUGES	PRICE
M5-XXX	Mark-10 Digital Force Gauge 2 - 100 lbf / 1 - 50 kgf / 10 - 500 N	<b>\$995*</b>
M5-200	Mark-10 Digital Force Gauge 200 lbf / 100 kgf / 1000 N	<b>1145*</b>
M5-500	Mark-10 Digital Force Gauge 500 lbf / 250 kgf / 2500 N	<b>1145*</b>
09-1163	Cable, RS232, M5 to PC	<b>75</b>
09-1165	Cable, USB, M5 to PC - Replacement	<b>30**</b>
CG 1000	Digital Force Gauge 1,000 lbf/500 kgf/5000 N	<b>1495</b>
09-1048A	Cable, RS232, M5 to PC	<b>75</b>
RSU100	Cable, RS232 to USB	<b>125***</b>

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

\*\* 09-1165 Cable included with all M5 Force Gauges.

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

**NOTE:** CG1000/USB computer operation requires 09-1048A and RSU100.

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

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

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

Prices and specifications are subject to change without notice.

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