



# MARK-10

## TSF/ST

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



TSF/ST  
Manual Force Test Stand

Made in America, the TSF/ST Spring Tester 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 - basic and advanced - providing computer output and many other features.

Travel data is displayed by a digital travel display with computer and SPC printer 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

- Included: 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/ST-100	Manual Spring Tester, 2 - 100 lbf	\$3845*
TSF/ST	Manual Spring Tester 200 or 500 lbf	3995**
TSF/ST-1000	Manual Spring Tester 1000 lbf	4345***
TSF001	Digital Travel Display - 6" x 0.005" [150 mm x 0.01 mm]	750
MRS100A	Communication Adapter - TSF001 to PC	265

\* Includes test stand, travel display and choice of M5-2 - 100.

\*\* Includes test stand, travel display and M5-200 or M5-500.

\*\*\* Includes test stand, travel display and CG 1000.

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*
M5-500	Mark-10 Digital Force Gauge 500 lbf / 250 kgf / 2500 N	1145*
09-1163	Cable, RS232, M5 to PC	75
09-1165	Cable, USB, M5 to PC - Replacement	30**
CG 1000	Digital Force Gauge 1,000 lbf / 500 kgf / 5000 N	1495
09-1048A	Cable, RS232, M5 to PC	75
RSU100	Cable, RS232 to USB	125***

\* 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	\$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.

Prices and specifications are subject to change without notice.

www.wagnerinstruments.com

### CALL US TOLL FREE 800-345-4188



MANUAL SPRING TESTER