

# MARK-10

## TSFM500

- TENSION & COMPRESSION
- CAPACITY: 500 lbf / 250 kgf / 2500 N
- DIGITAL FORCE & TRAVEL DISPLAY
- STEPPER MOTOR DRIVE
- CONSTANT SPEED UNDER LOAD
- OVERLOAD PROTECTION
- ECONOMICAL PRICE: \$2950



**TSFM500**  
Motorized Force Test Stand

Made in America, the TSFM500 provides tension and compression testing to 500 lbf / 250 kgf / 2500 N with a precision stepper motor preventing speed variation under load for excellent test repeatability. Force data is displayed by a selection of digital force gauges - basic and advanced - providing 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, provides overload protection.
- **MESURgauge innovative force testing software** provides easy set up and extremely user friendly data logging and graphing of force vs. distance.

#### CONSTRUCTION

- Rugged and exceptionally rigid extruded aluminum column.
- Column length: 30" [762 mm] is standard; other lengths available.
- Manual fine adjustment knob for set-up positioning.
- Maximum vertical clearance: Approx.: 14" [356 mm] depending on gauge.
- Maximum vertical travel: 4.00" [102 mm].
- Maximum horizontal clearance: 4.35" [110 mm].
- Speed range: 0.2 - 5.5 inch/min [5-140 mm/min].

#### OPERATION

- Remote console for up/down and variable speed control.
- Stepper motor for no speed variation under load.
- Compression testing with 2" [51 mm] and 3" [76 mm] diameter plates.
- Tension testing with small, medium and large hooks.

#### ACCESSORIES

- Included: Small, medium, and large hooks, 2" [51 mm] and 3" [76 mm] diameter compression plates, couplings, force gauge mounting and tool kit.

#### WEIGHT & DIMENSIONS

- 36 lb [16.3 kg]. • 31.5" [800 mm] H x 7.9" [200 mm] W x 9.4" [240 mm] D

MODEL	DESCRIPTION	PRICE
TSFM500	Motorized Test Stand - 500 lbf, vertical	\$3150
TSF001	Digital Travel Display - 6" x 0.0005" [150 mm x 0.01 mm]	750
MRS100A	Communication Adapter - TSF001 to PC	265
TSFM002	Travel Limit Switch Kit - Upper/Lower	400
09-1090	Cable, Force Set Point, M5/CG to TSFM 500	145

MODEL	FORCE GAUGES	PRICE
M5-XXX	Mark-10 Digital Force Gauge 2 - 100 lbf / 1 - 50 kgf / 10 - 500 N	\$1095*
M5-200	Mark-10 Digital Force Gauge 200 lbf / 100 kgf / 1000 N	1245*
M5-500	Mark-10 Digital Force Gauge 500 lbf / 250 kgf / 2500 N	1245*
09-1163	Cable, RS232, M5 to PC	75
09-1165	Cable, USB, M5 to PC - Replacement	30**

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

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

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.

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