

The TSFM500 test stand is designed for compression and tension testing of springs, packaging, metals, fabrics, and other items requiring up to 500 lbf (2,200 N) of force. Generous clearance and throat depth accommodate a broad range of sample shapes and sizes. The TSFM500's durable and rigid column minimizes bending, making it particularly well suited for spring, tensile, and compression testing.

Speed is adjustable and a remote control unit provides added safety during testing. Other features include a manual fine adjustment knob and a stepper motor that prevents speed variation with load, making testing precise and repeatable. Adjustable upper and lower travel limit switches are provided.

When used with certain Mark-10 force gauge, travel can be stopped at user-selectable force set points (requires optional cable). Available in vertical and horizontal configurations.

## Specifications

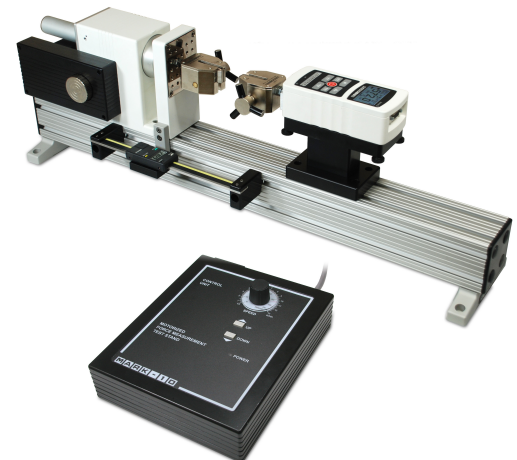
<b>Load Capacity:</b>	500 lbf [2200 N]
<b>Maximum Travel:</b>	4.0 in [102 mm]
<b>Speed range:</b>	0.2 - 5.5 in/min [5 - 140 mm/min]
<b>Speed setting accuracy:</b>	±5%, ±0% variation with load
<b>Power:</b>	Universal input 80-240 VAC, 50/60 Hz
<b>Weight:</b>	TSFM500: 36 lb [16.3 kg], TSFM500H: 30 lb [13.6] Controller unit: 2.7 lb [1.2 kg]
<b>Included accessories:</b>	Tool kit, three hooks (small, medium, and large), 2" and 3" compression plates, two couplers (#10-32 and 5/16-18), force gauge mounting hardware
<b>Warranty:</b>	3 years (see individual statement for further details)

## Optional Equipment

<b>Digital travel display TSF001</b>	6 in [150 mm] travel, 0.0005 in [0.01 mm] resolution, 0.001 in [0.03 mm] accuracy, SPC output for data collection.
<b>Overload / Set Point Cable AC1004</b>	Stops test stand travel at programmable high and low set points for tension and compression forces. Also protects the force gauge against accidental overloads during motorized tests. Compatible with Series 7, 5 and 4 force gauges. Can be used simultaneously with the USB data output cable supplied with the gauge.



The TSFM500 is shown in a typical spring testing application, with Model M5-1000 digital force gauge and compression plate.



The TSFM500H is shown set up for a tensile test, with Model M5-1000 digital force gauge and wedge grips.



^ Optional digital travel display

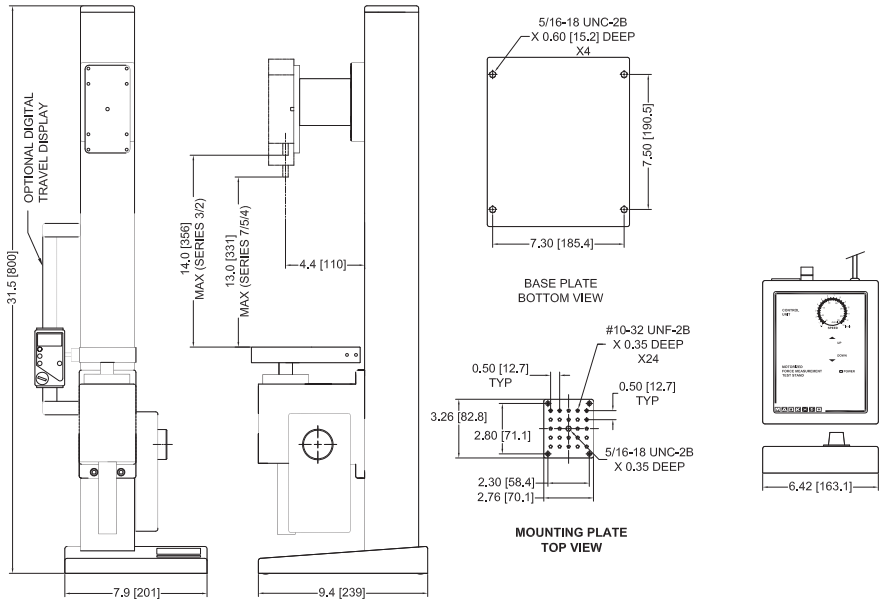


^ Included set of adjustable limit switches

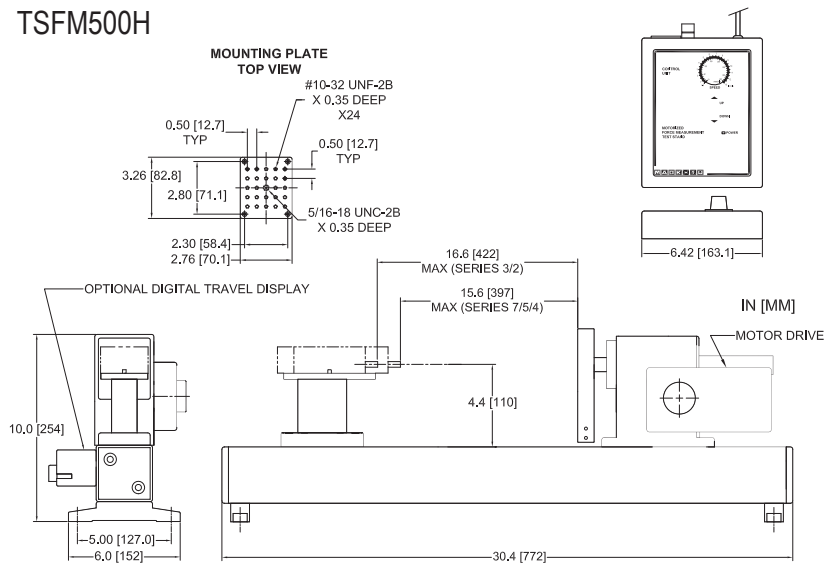
## Dimensions

in [mm]

### TSFM500



### TSFM500H



## Ordering Information

Model No.	Description
TSFM500	Test stand, motorized, 500 lbf, vertical, 110V
TSFM500E	Test stand, motorized, 500 lbf, vertical, 220V, Euro Plug
TSFM500U	Test stand, motorized, 500 lbf, vertical, 220V, UK Plug
TSFM500A	Test stand, motorized, 500 lbf, vertical, 220V, Australian Plug
TSF001	Digital travel display
09-1180	Overload / set point cable, gauge to test stand