

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

When used with a Series BG or CG force gauge, travel can be stopped at user-selectable force set points (requires optional set point cable). The optional overload protection module prevents force gauge overload.

Available in vertical and horizontal configurations.

Specifications

| | |
|----------------------------------|--|
| Load capacity: | 500 lbF [2200 N] |
| Maximum travel: | 4.0 in [102 mm] |
| Speed range: | 0.2 - 5.5 in/min [5 - 140 mm/min] |
| Speed setting accuracy: | ±5%, ±0% variation with load |
| Weight (w/o optional equipment): | |
| Test stand: | TSFM500: 36 lb [16.3 kg], TSFM500H: 30 lb [13.6] |
| Control unit: | 2.7 lb [1.2 kg] |
| Power: | Universal input 80-240 VAC, 50/60 Hz |
| Included accessories: | 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 |
| Warranty: | 3 years (see statement for further details) |

Optional Equipment

| | |
|---------------------------------------|---|
| Digital travel display TSF001 | 6 in [150 mm] travel, 0.0005 in [0.01 mm] resolution, 0.001 in [0.03 mm] accuracy, SPC output for data collection. |
| Limit switch kit TSFM002 | Set of adjustable upper and lower solid state limit switches. |
| Overload protection module 11-1042 | Protects the force gauge against overloads during motorized tests, adjustable from 10 - 150% of gauge's full capacity. Compatible with force gauges with analog output. |
| Set Point Cable 09-1090 | Stops test stand travel at programmable high and low set points for tension and compression forces. Compatible with force gauges with set point outputs. |

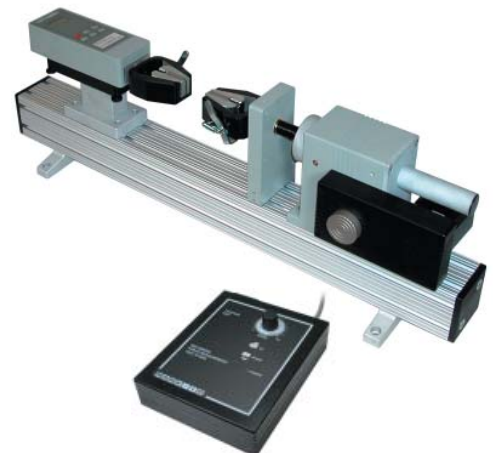
>> Digital travel display



>> Limit switch kit



The TSFM500 is shown in a typical spring testing application, with Series CG digital force gauge and compression plate.

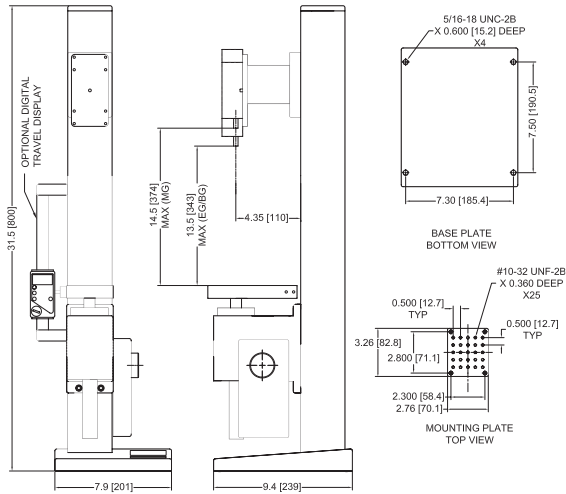


The TSFM500H is shown set up for a tensile test, with Series CG digital force gauge and wedge grips.

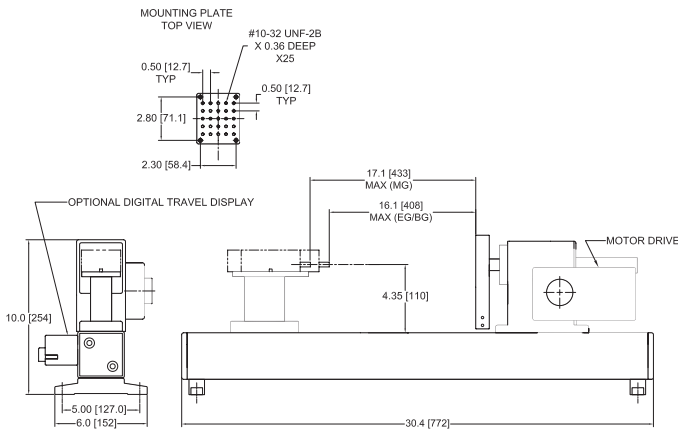
Dimensions

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 |
| TSFM500H | Test stand, motorized, 500 lbF, horizontal, 110V |
| TSFM500HE | Test stand, motorized, 500 lbF, horizontal, 220V |
| TSF001 | Digital travel display |
| TSFM002 | Limit switch kit |
| 11-1042 | Overload protection module, gauge to test stand |
| 09-1090 | Set point cable, gauge to test stand |