



Model ES05

Force, Manual, 30 lbf / 150 N

The ES05 test stand is an economical and compact compression-only test stand for various testing applications. A spring-loaded lever allows for repeatable testing with up to 1.5" (38 mm) displacement, and the lever mechanism can be repositioned along the length of the column.

Features

■ **Spring loaded lever mechanism**

Convenient for repetitive testing.

■ **Repositionable lever mechanism**

Adds flexibility in test setups.

■ **Compact size**

Portable, small footprint.



Models ES10 and ES20

Force, Manual, 100 lbf / 500 N

The ES10 and ES20 test stands are economical and compact push/pull solutions for many testing applications. Available in lever (ES10) or hand wheel (ES20) operation.

Features

■ **Choice of lever (ES10) or hand wheel (ES20) operation**

Lever action provides for quick testing at high speeds, while hand wheel action allows for fine positioning and better motion control.

■ **Optional 1" dial or digital indicator (ES001, ES002)**

For spring testing, rubber and polymer testing, and more. Digital model displays in and mm. Also available as brackets only (no indicator).

■ **Compact size**

Portable, small footprint.



ES001



ES002



Model ES30

Force, Manual, 200 lbF / 1,000 N

The ES30 accommodates a wide range of sample shapes and sizes due to generous travel distance, daylight, and throat distance. Convenient side-mounted hand wheel operation makes testing easier.

Features

- **Side mounted hand wheel**

Convenient loading method, offers more control over test speed.

- **Removable base**

The entire base may be removed for alternative mounting.

- **Optional digital travel displays (ESM001, ESM004)**

Useful in spring testing, rubber and polymer testing, and other applications. Select from 6" [152 mm] and 12" [305 mm] lengths.

- **Optional column extensions**

For testing long samples. Available in lengths of 6" [152 mm] (ESM003-1), 12" [305 mm] (ESM003-2), and 24" [610 mm] (ESM003-3). Custom lengths also available.



Model TSA750 / TSA750H

Force, Manual, 750 lbF / 3,750 N

The TSA750 is a rugged stand for heavy duty testing applications requiring quick action. Lever operation allows the operator to produce 750 lbF with relatively little effort. Modular design allows for the force gauge bracket and lever mechanism to be repositioned along the column. Available in vertical and horizontal configurations.

Features

- **Rack and pinion mechanism with lever operation**

Allows for quick testing. The lever can be repositioned in 30° increments.

- **Adjustable travel stops**

For limiting travel distance. Useful in repetitive testing.

- **Optional 6" [512 mm] digital travel display (TSA001)**

Useful in spring testing, rubber and polymer testing, and other applications.



TSA750



TSA750H



Model TSF / TSFH

Force, Manual, 1,000 lbF / 5,000 N

The TSF is a rugged stand with a rigid column, making it perfect for spring testing, high force tensile testing, and other applications. Precision side-mounted hand wheel operation is virtually effortless over the entire 1,000 lbF range, without back driving. Modular design allows for the gauge mounting plate and housing to be moved along the length of the column. Removable base (TSF) or mounting legs (TSFH) allow for a range of custom mounting configurations.

Features:

■ Side-mounted hand wheel operation

Ergonomic loading method reduces operator fatigue.

■ Exceptionally strong column

Rugged 3" x 3" column is durable and stiff, ideal for spring testing. Force is produced in line with the screw actuator, minimizing column deflection.

■ Optional 6" [152 mm] digital travel display (TSF001)

Useful in spring testing, rubber and polymer testing, and other applications.



TSF



TSFH

Specifications - Manual Force Test Stands

Model No.	Capacity lbF [N]	Maximum travel ¹ in [mm]	Loading method	Travel rate in [mm]	Daylight ² in [mm]
ES05	30 [150]	1.5 [38]	Spring-loaded lever	-	8 [203]
ES10	100 [500]	9 [229]	Lever	1.050 [26.7] / lever rev.	9 [229]
ES20			Top-mounted hand wheel	0.083 [2.1] / wheel rev.	
ES30	200 [1,000]	13 [330]	Side-mounted hand wheel	0.050 [1.3] / wheel rev.	14 [356] ³
TSA750	750 [3,750]	with travel stops: 2.75 [70] without travel stops: 6 [152]	Rack & pinion, lever can be positioned in 30° increments	3.00 [76.2] / lever rev.	10.5 [267] ³
TSA750H					14.5 [368] ³
TSB100	100 [500]				21 [533] ³
TSC1000	1,000 [5,000]	3.5 [89]	Inline hand wheel	0.10 [2.5] / wheel rev.	10 [254] ³
TSC1000H					13 [330] ³
TSF		4 [102]	Side-mounted hand wheel	0.013 [0.34] / wheel rev.	14 [356] ³
TSFH					16.5 [419] ³

1. Maximum travel depends on the grips or fixtures used during testing. The dimensions indicate distances without the use of grips or fixtures.
2. The clearance between the bottom of a mounted force gauge or sensor and the loading surface of the stand. Daylight will be reduced through the use of grips or fixtures. If the test sample size is close to the daylight specification above (or daylight less grip(s) or fixture(s)), a column extension may be necessary.
3. Column extensions are available.