










## Test Stand Comparison Chart

### Force Test Stands

	Force Capacity lb [N]	Max. Travel <sup>1</sup> in [mm]	Loading Method	Travel Rate in [mm]	Daylight <sup>2</sup> in [mm]	Included Accessories <sup>4</sup>
 <b>ESM</b>	200 [1000]	13 [330]	Motorized	0.5-13 [13-300] / min	14 [356] <sup>3</sup>	Tool kit, ext. rod, sm. hook, med. hook, #10-32 coupler, 2" compression plate
 <b>ES10 / ES20</b>	100 [500]	9 [229]	Lever	1.05 [26.7] / lever rev.	9 [229]	---
	100 [500]	9 [229]	Top-mounted hand wheel	0.06 [1.5] / wheel rev.	9 [229]	---
 <b>ES30</b>	200 [1000]	13 [330]	Side-mounted hand wheel	0.05 [1.3] / wheel rev.	14 [356] <sup>3</sup>	Tool kit, ext. rod, sm. hook, med. hook, #10-32 coupler, 2" compression plate
 <b>TSA / TSAH</b>	750 [3750]	w/stops: 2.75 [70] w/o stops: 6 [152]	Rack & pinion, lever can be positioned in 30° increments	3.00 [76.2] / lever rev.	TSA: 10.5 [267] <sup>3</sup> TSAH: 14.5 [368] <sup>3</sup>	Tool kit, med. hook, lg. hook, 2" compression plate
 <b>TSB</b>	100 [500]	w/stops: 2.75 [70] w/o stops: 6 [152]	Rack & pinion, lever can be positioned in 30° increments	3.00 [76.2] / lever rev.	13 [330]	---
 <b>TSC / TSCH</b>	1000 [5000]	3.5 [89]	Inline hand wheel	0.10 [25.4] / wheel rev.	TSC: 10 [254] <sup>3</sup> TSCH: 13 [330] <sup>3</sup>	Tool kit, med. hook, lg. hook, 2" compression plate
 <b>TSF / TSFH</b>	1000 [5000]	4 [102]	Side-mounted hand wheel	0.013 [0.34] / wheel rev.	TSF: 14 [356] <sup>3</sup> TSFH: 16.5 [419] <sup>3</sup>	Tool kit, sm. hook, med. hook, lg. hook, 2" and 3" compression plates, couplers (#10-32 and 5/16-18)

## Torque Test Stands

	Torque Capacity lbin [Nm]	Max. Angular Travel, resolution	Loading Method	Rotation Rate in [mm]	Daylight <sup>2</sup> (w/STJ torque sensor) in [mm]	Max. Slider Travel, Travel Rate <sup>6</sup> in [mm]
 <b>TST / TSTH</b>	100 [11.3]	∞, 2°	Side-mounted hand wheel	12° / wheel rev.	TST: 15 [381] <sup>3</sup> TSTH: 16 [406] <sup>3</sup>	15.5 [394], 1.047 [26.6] / lever rev.
 <b>TSTM / TSTMH</b>	100 [11.3]	∞, 2°	Motorized	0.3-8.6 RPM [4-52°/s]	TSTM: 13 [330] <sup>3</sup> TSTMH: 16 [406] <sup>3</sup>	15.5 [394], 1.047 [26.6] / lever rev

All torque test stands include a tool kit.

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. This distance will be less if grips or fixtures are used. The numbers in this chart are approximate. If your test sample size is very close to the daylight figure above (or daylight less grip(s) or fixture(s)), a column extension may be necessary.

3. Longer columns available.

4. All force test stands include force gauge mounting screws.

5. All torque test stands include an adapter to secure the STJ torque sensor during testing. Adapters are also available for other torque sensors.

6. The slider is intended for engaging and disengaging samples. The torque sensor adapter is mounted to the slider.