

# Test Stands

## Precision tension and compression testing

### Horizontal Lever Stand

- Select stand with or without digital distance meter
- Stroke 4" (102 mm)
- Capacity 220 lb
- Lever action allows rapid testing
- Large work area accepts a variety of samples



59860-32 (stand with distance meter)

### Vertical Lever Stand

- Standard compression model easily converted to tension
- Select stand with or without digital distance meter
- Operates with a single downward lever stroke
- Capacity 220 lb
- Stroke 4" (102 mm)
- Max clearance 5" (127 mm) to 10" (254 mm) with optional extender plate



59860-34 (stand with distance meter)

### Vertical Wheel Stand

- Hand wheel design provides precise control
- Both tension and compression testing
- Select stand with or without digital distance meter
- Capacity 110 lb
- Max clearance 9" (229 mm) to 14" (356 mm) with optional AP003 extender plate



59860-46 (stand with distance meter)

Collect both force and displacement data from test stands equipped with a distance meter, order data button, data acquisition software, and cable (sold on page 415).

Catalog No.	Model No.	Description
TS-59860-33	LV-220-C	Compression stand
TS-59860-36	LV-220-T	Tension stand
TS-59860-34	LV-220S-C	Compression stand with distance meter
TS-59860-35	LV-220S-T	Tension stand with distance meter
TS-93965-16	AP003	Extender plate (10" clearance)
TS-59860-31	LH-220	Horizontal lever stand
TS-59860-32	LH-220S	Lever stand with distance meter
TS-59860-45	HV-110	Vertical wheel stand
TS-59860-46	HV-110S	Vertical wheel stand with distance meter
TS-17090-16	—	<b>NIST-traceable calibration with data</b>

# Motorized Push/Pull Test Stands

## Economical, configurable solution for applications up to 300 lb

Use these highly configurable motorized test stands for tension and compression testing applications up to 300 lb (1.5 kN). With a rugged and modular design, these test stands are ideal in production and lab environments. Easily control stands from the front digital panel or via a computer through an ASCII command set or through Nexygen™ TCD software. The base test stand's standard capabilities include selectable speed units of measurement (in/min and mm/min), an LCD display with UP, DOWN, STOP, emergency stop buttons and soft keys, password protection of test parameters, integrated travel limit switches, and more.



25010-31

### SPECIFICATIONS

Load capacity	300 lb (1.5 kN) up to 24 in/min (610 mm/min); 200 lb (1 kN) at >24 in/min (610 mm/min)
Speed range	Standard: 0.5 to 13 in/min (13 to 330 mm/min); With EFCOMP complete options package: 0.02 to 45 in/min (0.5 to 1100 mm/min)
Maximum travel	ESM301(E): 11.5 in. (292 mm) ESM301L(E): 18 in. (457 mm)
Travel resolution	0.001 in. / 0.02 mm
Speed variation with load	None (stepper motor driven)
Dimensions (W x D x H)	6½" x 13¼" x 24¾" (165 x 335 x 630 mm)
Power	Universal input, 110 to 220 VAC, 50/60 Hz

What's included: Extension rod, two hooks (small and medium), coupler, 2" (51 mm) dia compression plate, and force gauge hardware. Complete options packages include: Integrated travel indication, PC control via RS-232<sup>†</sup>, programmable travel limits, programmable cycling with dwell time, auto return, integrated overload protection, break detection, extended speed ranges, independent up and down speeds, and load holding and preload.

Catalog No.	Model No.	Description
TS-25310-31	ESM301	Motorized test stand, 110 V
TS-25310-23	ESM301E	Motorized test stand, 220 V
TS-25310-25	ESM301L	Motorized test stand, 110 V
TS-25310-27	ESM301LE	Motorized test stand, 220 V
<b>Accessories</b>		
TS-25310-29	EFCOMP-L	Complete options package for 25300-25, -27 <sup>†</sup>
TS-25310-33	EFCOMP	Complete options package for 25300-23, -31 <sup>†</sup>
TS-25310-35	ESM301-002-1	Column extension, 6" (150 mm)
TS-25310-37	ESM301-002-2	Column extension, 12" (300 mm)
TS-25310-39	ESM301-002-3	Column extension, 24" (600 mm)
TS-25310-41	09-1162	Multi-function cable, series M5 force gauge to test stand
TS-25310-43	09-1056	Serial cable, test stand to PC
TS-25310-45	RSU100	Communication adapter, RS-232 to USB

<sup>†</sup>PC control requires a Series M5 force gauge (sold on page 406), 09-1162 cable, and 09-1056 cable.