

# STAR - SPRING TESTING AUTOMATION ROBOT

The Spring Testing Automation Robot from LSI comes in two models: a compression (short extension) model capable of up to 9" long parts and a compression / extension model capable of up to 29" long parts. These testers come standard with a 1,000, 2,000 or 3,000 lb high performance servo motor / ball screw drive with optional super precision capabilities. These stand-alone systems are excellent for an inspection room or test lab, but rugged enough for use right on the factory floor.

## Standard Features:

- Up to 3,000 lb Capacity
- Mixed testing of compression & extension springs
- Smart interchangeable load cells (choose from 18)
- Password protections for programs
- Patented deflection compensation built in
- Production Monitor
- Touch screen / Full color LCD graphics
- Digital calibration
- NIST traceable calibration
- Multiple measurement units (mm, in, lb, kg, N)
- Estimated weight: 338 lb (24" model with 2,000 lb load cell)
- Footprint: 24" wide x 20.25" deep x 52" high (24" model)
- 1" Ø preloaded / pretensioned ball screws
- Rigid preloaded linear bearings
- 240 volt Single Phase Servo Drive on 3,000 lb system (Nema 6-15 plug)
- Up to 25" of compression stroke and 50" + extension range

## Safety Features:

- Test abort button
- Mechanical overload stops
- Software length / force limits
- Emergency Stop Button

## Connectivity Features:

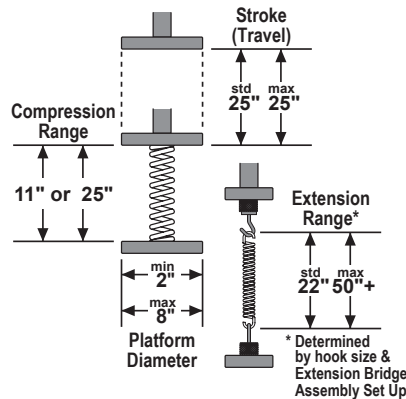
- Ethernet port for network program transfers
- USB for easy printing / software updates
- Remote support / diagnostic capability via the internet
- RS 232
- Automation interface

## Optional Features:

- Optional 1/2" to 2" Thru-Rod Accessory Kit Mounted on Machine
- Optional Extension Bridge Assembly for 50" + Springs

STAR - Force Specifications			
Part No.	Capacity	Resolution	
		0-20% FS	20-100% FS
025-0000-0535-00	2 lb	0.0001 lb	0.001 lb
	907 g	0.02 g	0.2 g
	8.9 N	0.0002 N	0.002 N
025-0000-0535-01	11 lb	0.0002 lb	0.002 N
	5 kg	0.1 g	1 g
	49 N	0.001 N	0.01 N
025-0000-0535-02	22 lb	0.0005 lb	0.005 lb
	10 kg	0.2 g	2 g
	98 N	0.002 N	0.02 N
025-0000-0535-03	66 lb	0.001 lb	0.01 lb
	30 kg	0.5 g	5 g
	294 N	0.005 N	0.05 N
025-0000-0535-04	110 lb	0.002 lb	0.02 lb
	50 kg	0.001 kg	0.01 kg
	489 N	0.01 N	0.1 N
025-0000-0535-05	200 lb	0.005 lb	0.05 lb
	91 kg	0.002 kg	0.02 kg
	890 N	0.02 N	0.2 N
025-0000-0535-06	550 lb	0.01 lb	0.1 lb
	249 kg	0.005 kg	0.05 kg
	2,447 N	0.05 N	0.5 N
025-0000-0535-07	1,000 lb	0.02 lb	0.2 lb
	454 kg	0.01 kg	0.1 kg
	4,448 N	0.1 N	1 N
025-0000-0416-01	2,000 lb	0.05 lb	0.5 lb
	907 kg	0.02 kg	0.2 kg
	8,896 N	0.2 N	2 N

Accuracy = ± Resolution x 2



STAR 25 Part Size

STAR - Length Specifications			
Standard Resolution		High Resolution*	
Resolution	Accuracy (±)	Resolution	Accuracy (±)
0.0005 in	0.001 in	0.0001 in	0.0005 in
0.01 mm	0.02 mm	0.001 mm	0.01 mm

\*Requires 025-0000-0417-00 (9" stroke) or 025-0000-0418-00 (24" stroke)



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