

STAR Series

Spring Testing Automation Robot

The STAR from LSI comes in two models: the STAR 11, a compression (short extension) model capable of up to 9" long parts and the STAR 25, a compression / extension model capable of testing parts up to 72" long. These testers come standard with a 2,000 or 3,000 lb high performance servo motor / ball screw drive with optional super precision capabilities. Excellent for an inspection room or test lab, but rugged enough for use right on the factory floor.



STAR 11

Pictured with
Optional Light
Curtain Safety
Guard



STAR 25

Pictured
with
Optional
Thru Rod
Kit

**STAR 25
Requires
240 VAC
Input**

Standard Features:

- Compression and extension testing of force and length
- FLASH touch screen interface (integrated Windows 10)
- Up to 3,000 lb Capacity
- Smart interchangeable load cells (choose from 17)
- 240 volt Whisper Servo Drive
- Deflection compensation built in
- NIST traceable digital calibration
- **STAR 25 REQUIRES 240 VAC POWER INPUT**

Mechanical Features:

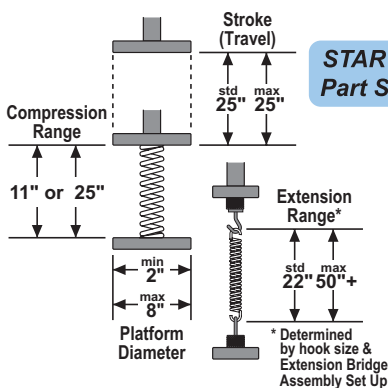
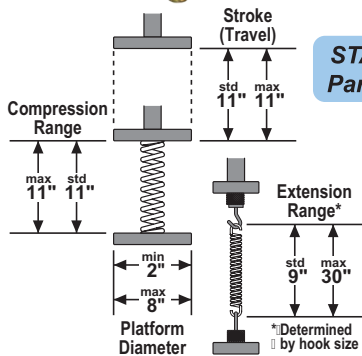
- 1" Ø preloaded / pretensioned ball screws
- Rigid preloaded linear bearings
- Up to 25" of compression stroke and 72" extension range
- Optional Extension Bridge Assembly for Springs up to 72"
- Optional Mounted 1/2" to 2" Ø Thru-Rod Accessory Kit

Connectivity Features:

- Ethernet port for network program transfers
- USB for easy printing and software updates
- RS 232
- Automation interface
- VGA output and remote start & operation capability
- Remote support / diagnostic capability via the internet

Safety Features:

- Easy access to emergency stop button
- On-screen test abort button
- Polycarbonate safety shield
- Optional thru-rods for buckling springs
- Mechanical overload stops
- Software length and force limits



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)

STAR - Force Specifications

Part No.	Capacity	Resolution	
		0-20% FS	20-100% FS
025-0000-0414-01	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
025-0000-0414-02	11 lb	0.0002 lb	0.002 N
	5 kg	0.1 g	1 g
	49 N	0.001 N	0.01 N
025-0000-0414-03	22 lb	0.0005 lb	0.005 lb
	10 kg	0.2 g	2 g
	98 N	0.002 N	0.02 N
025-0000-0414-04	66 lb	0.001 lb	0.01 lb
	30 kg	0.5 g	5 g
	294 N	0.005 N	0.05 N
025-0000-0414-05	110 lb	0.002 lb	0.02 lb
	50 kg	0.001 kg	0.01 kg
	489 N	0.01 N	0.1 N
025-0000-0414-06	200 lb	0.005 lb	0.05 lb
	91 kg	0.002 kg	0.02 kg
	890 N	0.02 N	0.2 N
025-0000-0414-07	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
025-0000-0414-08	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
025-0000-0414-00	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 = ± Full Scale Resolution x 2

Thru-Rod Capable Cells - Force Specs.

Part No.	Capacity	Resolution	
		0-20% FS	20-100% FS
025-0000-0414-12	22 lb	0.0005 lb	0.005 lb
	10 kg	0.2 g	2 g
	98 N	0.002 N	0.002 N
025-0000-0414-13	44 lb	0.001 lb	0.01 lb
	20 kg	0.5 g	5 g
	196 N	0.005 N	0.05 N
025-0000-0414-14	132 lb	0.002 lb	0.02 lb
	60 kg	0.001 kg	0.01 kg
	587 N	0.01 N	0.1 N
025-0000-0414-15	220 lb	0.005 lb	0.05 lb
	100 kg	0.002 kg	0.02 kg
	986 N	0.02 N	0.2 N
025-0000-0414-16	400 lb	0.01 lb	0.1 lb
	181 kg	0.005 kg	0.05 kg
	1,779 N	0.05 N	0.5 N
025-0000-0414-17	1000 lb	0.02 lb	0.2 lb
	454 kg	0.01 kg	0.1 kg
	4,448 N	0.1 N	0.1 N
025-0000-0414-18	2000 lb	0.05 lb	0.5 lb
	907 kg	0.02 kg	0.2 kg
	8,896 N	0.2 N	2 N
025-0000-0414-19	3000 lb	0.06 lb	0.6 lb
	1360 kg	0.03 kg	0.3 kg
	13,346 N	0.3 N	3 N

Accuracy = ± Full Scale Resolution x 2



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