



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 1,000, 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**

Standard Features:

- Compression and extension testing of force and length
- Full color LCD touch screen FLASH interface
- Integrated Windows 7
- 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

Mechanical Features:

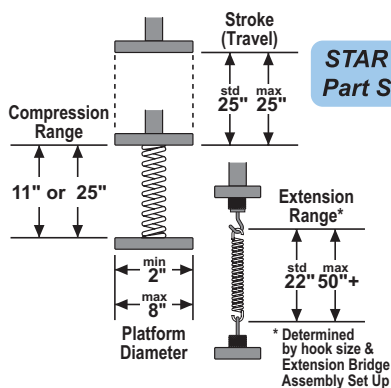
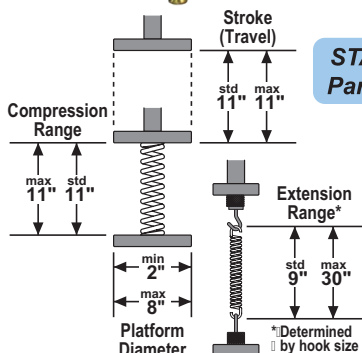
- 1" Ø preloaded / pretensioned ball screws
- Rigid preloaded linear bearings
- Up to 25" of compression stroke and 72" extension range
- Optional Extension Bridge Assembly for Springs up to 72"
- Optional Mounted 1/2" to 2" Ø Thru-Rod Accessory Kit

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 - 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

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)

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	.06 lb	.6 lb
	1360 kg	.03 kg	.3 kg
	13,346 N	.3 N	3 N

Accuracy = ± Full Scale Resolution x 2



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