

# SDHT 2000

# Super Digital Hand Tester

Our most accurate and heavy-duty hand tester has smart, interchangeable load cells. Its rugged two-post design minimizes frame deflection and gives you the most versatility and productivity in a single tester. It has a 13" stroke, 18" range and can test parts up to 2,000 lb. and 8" in diameter.

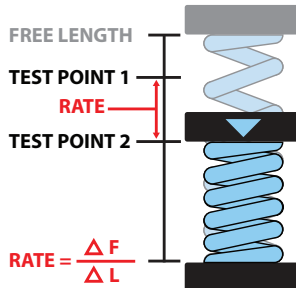
The SDHT 2000 is made from a combination of billet aluminum and precision ground steel parts. The rack-and-pinion drive is lever (standard) or hand-wheel operated (optional). The tester is equipped with two positive stops to be used for repetitive testing and comes standard with a 0.438" Ø thru-hole for centering shafts to support buckling compression springs.

### Standard Features:

- Compression / extension testing of force and length
- Convenient hand lever operation
- Smart interchangeable load cells
- Backlit digital LED display of force and length
- Tracking or peak modes (2,000 samples / sec)
- Load cell and frame deflection compensation
- Wipe-clean embossed key faceplate
- Push button force and length zeroing
- Push button English or metric unit selection
- Built-in shunt calibration verification
- NIST traceable digital calibration
- User programmable filter & length / force offsets
- Internal 8-hour battery for portable use
- RS232 port for printing or data output
- Built-in 1,800 test point data logger

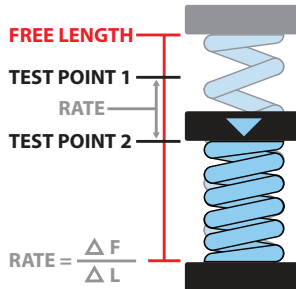
### Optional Software Features:

#### 2 Point with Rate



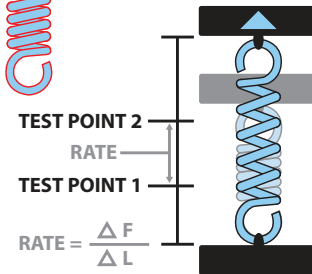
Test two points and get a spring rate calculation in one deflection of the spring.

#### Calculated Free Length

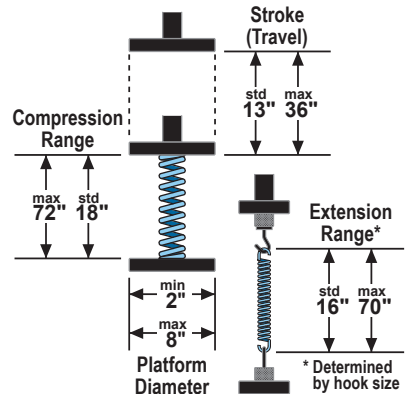


Test two points and get a free length calculation in one deflection of the spring.  
\*Includes 2 Point with Rate

#### Initial Tension (Force Required to Separate Coils)



Test two points and get an initial tension calculation in one deflection of the spring.  
\*Includes 2 Point with Rate



SDHT 2000 - Force Specifications			
Part No.	Capacity	Resolution	
		0-20% FS	20-100% FS
025-0000-0394-01	2 lb	0.00002 lb	0.0002 lb
	907 g	0.01 g	0.1 g
	8.9 N	0.0001 N	0.001 N
025-0000-0394-02	11 lb	0.0002 lb	0.002 lb
	5 kg	0.1 g	1 g
	49 N	0.001 N	0.01 N
025-0000-0394-03	22 lb	0.0005 lb	0.005 lb
	10 kg	0.2 g	2 g
	98 N	0.002 N	0.02 N
025-0000-0394-04	66 lb	0.001 lb	0.01 lb
	30 kg	0.5 g	5 g
	294 N	0.005 N	0.05 N
025-0000-0394-05	110 lb	0.002 lb	0.02 lb
	50 kg	0.001 kg	0.01 kg
	489 N	0.01 N	0.1 N
025-0000-0394-06	200 lb	0.005 lb	0.05 lb
	91 kg	0.002 kg	0.02 kg
	890 N	0.02 N	0.2 N
025-0000-0433-00	750 lb	0.02 lb	0.2 lb
	340 kg	0.01 kg	0.1 kg
	3,336 N	0.1 N	1 N
025-0000-0433-01	1,500 lb	0.1 lb	1 lb
	680 kg	0.05 kg	0.5 kg
	6,672 N	0.5 N	5 N
025-0000-0433-02	2,000 lb	0.1 lb	1 lb
	907 kg	0.05 kg	0.5 kg
	8,896 N	0.5 N	5 N

Accuracy = ± Full Scale Resolution x 2

SDHT 2000 - Length Specifications		
Capacity	Standard Resolution	
	Resolution	Accuracy (±)
2, 11, 22, 66, 110 & 200 lb	0.0005 in 0.01 mm	0.001 in 0.02 mm
750, 1,500, & 2,000 lb	0.0005 in 0.01 mm	0.002 in 0.04 mm

Accuracy = ± Full Scale Resolution x 2



Larson Systems Inc.  
13847 Aberdeen Street NE  
Ham Lake, MN 55304-6789

763-780-2131  
877-780-2131  
763-780-2182 (Fax)

info@larsonsystems.com  
www.larsonsystems.com

