

# FDHT

## Force Digital Hand Tester

This is a compression and extension tester with **force measurement only**. It is equipped with a high-resolution force measuring system to display current or peak force and can be fitted to perform a variety of force tests. Standard pull lengths of 12" can be increased to 18" with optional extended rods. It has a rugged cast-aluminum and steel frame, a precision rack-and-pinion drive with adjustments for wear, and convenient hand operation to apply force and adjust length. The FDHT is best suited for specialized wire testing applications.

### Standard Features:

- Compression and extension force testing
- 18" standard range
- 7" standard stroke
- Tracking or peak modes (2,000 samples / sec)
- Load cell and frame deflection compensation
- Mechanical and software overload protection
- Digital calibration and linearization
- Backlit digital LCD display of force
- Wipe-clean embossed key faceplate
- Push-button force zeroing
- NIST traceable calibration
- Force measurement in lb, oz, kg or N
- Built-in shunt calibration verification

### Options:

- 4" Platforms (025-0000-0191-00)
- Micro-Length Adjust (025-0000-0407-00)
- Quick Release Range Adjust (025-0000-0412-00)
- RS 232 Capability (025-1000-0261-00)
- Battery Pack (025-0000-0294-00)
- High Resolution Force (050-0000-0107-00)



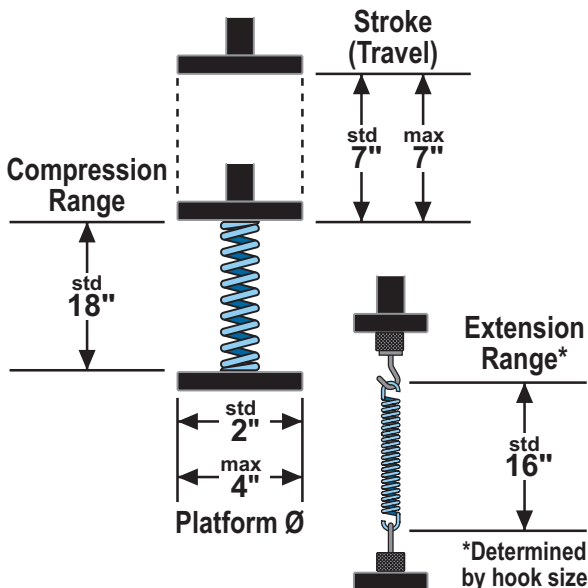
### RS 232 Option

Add an RS 232 port to the back of the tester for printing or data output.

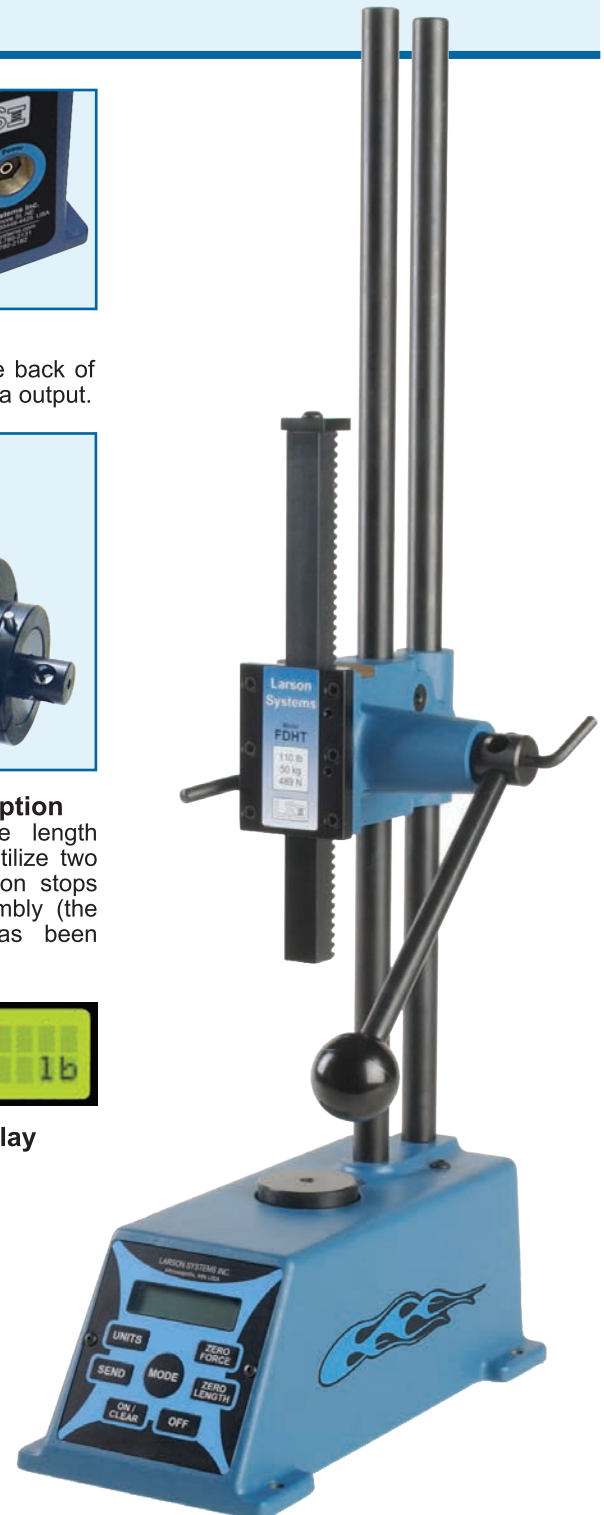


### Micro Length Adjust Option

Make extremely accurate length adjustments, as well as utilize two extremely rigid compression stops built right in to the assembly (the hand operating lever has been removed in this photo).



LCD Digital Force Display



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# FDHT

## Force Digital Hand Tester

### FDHT Force Specifications

FDHT Model & Load Cell		Standard Resolution	High Resolution Force*	
Load Cell & Part No.	Capacity	0-100% Full Scale	0-20% FS	20-100% FS
 <b>FDHT - 2 lb</b> 050-0000-0047-01	<b>2 lb</b>	<b>0.001 lb</b>	<b>0.0001 lb</b>	<b>0.001 lb</b>
	907 g	0.2 g	0.02 g	0.2 g
	8.9 N	0.002 N	0.0002 N	0.002 N
 <b>FDHT - 11 lb</b> 050-0000-0047-02	<b>11 lb</b>	<b>0.005 lb</b>	<b>0.0005 lb</b>	<b>0.005 lb</b>
	5 kg	0.002 kg	0.0002 kg	0.002 kg
	49 N	0.02 N	0.002 N	0.02 N
 <b>FDHT - 22 lb</b> 050-0000-0047-03	<b>22 lb</b>	<b>0.01 lb</b>	<b>0.001 lb</b>	<b>0.01 lb</b>
	10 kg	0.005 kg	0.0005	0.005 kg
	98 N	0.05 N	0.005 N	0.05 N
 <b>FDHT - 66 lb</b> 050-0000-0047-04	<b>66 lb</b>	<b>0.02 lb</b>	<b>0.002 lb</b>	<b>0.02 lb</b>
	30 kg	0.01 kg	0.001 kg	0.01 kg
	294 N	0.1 N	0.01 N	0.1 N
 <b>FDHT - 110 lb</b> 050-0000-0047-00	<b>110 lb</b>	<b>0.05 lb</b>	<b>0.005 lb</b>	<b>0.05 lb</b>
	50 kg	0.02 kg	0.002 kg	0.02 kg
	489 N	0.2 N	0.02 N	0.2 N
 <b>FDHT - 200 lb</b> 050-0000-0047-05	<b>200 lb</b>	<b>0.1 lb</b>	<b>0.01 lb</b>	<b>0.1 lb</b>
	91 kg	0.05 kg	0.005 kg	0.05 kg
	890 N	0.5 N	0.05 N	0.5 N
 <b>FDHT - 750 lb</b> 050-0000-0048-00	<b>750 lb</b>	<b>0.5 lb</b>	<b>0.05 lb</b>	<b>0.5 lb</b>
	340 kg	0.2 kg	0.02 kg	0.2 kg
	3,336 N	2 N	0.2 N	2 N

**Accuracy = ± Full Scale Resolution x 2**  
*\*Requires High Resolution Force Option 050-0000-0107-00*



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