

# LTL-LAB MASTER<sup>®</sup> TENSILE TESTER 84-91



## FEATURES

- Integral Windows™ PC with touch-screen flat panel display in a compact, network-ready unit
- Includes Test Method Wizard™ software for fast test set-up
- Graph test results and display calculated values
- Break detection for faster test cycles
- Configure for R&D analysis or one-touch automated process control
- Interface to standard fixtures; custom fixtures available
- RS-232 output, printer, Ethernet



The LTL-Lab Master<sup>®</sup> Tensile Tester provides precise, repeatable measurement of compression, elongation, peel, stress-relaxation and tensile measurements up to 250 lbf (1100N). Resolution to 0.01 lbf in 250 lbf. Thousands of data points per test are used to generate force/distance curves and perform calculations that document the material's behavior during test.

## APPLICATIONS

Adhesives, electronics, film, foil, medical products, nonwovens, paper, paperboard, plastic, rubber, textiles, tissue, wire and more.

# LTL- LAB MASTER TENSILE TESTER

## SPECIFICATIONS

Model 84-91-00-0001

### Force (tension and compression)

Maximum	250 lb ( ±1100N) Other force ranges available
Resolution	1:26000
Accuracy	±0.5% or better of load cell capacity tension or compression Exceeds the requirements of ISO 7500-1 Class 0.5
Overload Rating	150%
Available with interchangeable load cells	Lbf 10, 25, 50, 100, 150, 250 N 45, 110, 225, 445, 670, 1100 (Metric load cells available)

### Travel and Position

Travel (maximum)	39.37 in (10 cm)
Position Resolution	0.00004 in (0.1 µm)

### Speed

Range	0.0001 to 40 in/min (.025 to 1016 mm/min) steady state
Accuracy	better than 0.05%
Throat depth	3.3 in (82 mm)
Number of Repeat Cycles	50 steps
Data Acquisition rate	2 kHz
Display TFT flat panel touch screen	12 in (30.5 cm)
Computer	Integrated Windows™ PC. No additional software or interface to external PC required

### Environmental Range

Temperature (operating)	5°C to 35°C (40°F to 95°F)
Temperature (storage)	-20° to 55°C (-4°F to 130°F)
Humidity (operating and storage)	10% to 85% non-condensing
Weight	140 lb (65 kg)
Dimensions (W x D x L)	19.25 in x 21 in x 67 in (49 cm x 53 cm x 170 cm)
Working Surface Height	11.5 in (29 cm)

### Electrical

Supply voltage	110-120 V nominal ±10%, 220-240V nominal -5%, ±10%
Current (max.)	10 Amperes
Frequency	50/60 Hz

#### Main Headquarters

**Testing Machines Inc.**  
40 McCullough Drive  
New Castle, DE 19720  
Tel: (302) 613-5600  
Fax: (302) 613-5619  
Info@testingmachines.com

**Büchel BV  
t/a Messmer Büchel**  
Fokkerstrat 24, 3905 KV  
Veenendaal, Netherlands  
Tel: +31 (0)318 521500  
Fax: +31 (0)318 540358

**Lako Tool and  
Manufacturing Inc.**  
7400 Ponderosa Road  
Perrysburg, Ohio 43552  
Tel: (419) 662-5256  
Fax: (419) 662-8225

**Lawson Hemphill**  
1658 G A R Highway  
Swansea, MA 02777 USA  
Tel: (508) 679-5364  
Fax: (508) 679-5396  
Information@  
lawsonhemphill.com

**Adamel Lhomargy SARL**  
Z.A. de l'Habitat, Bâtiment  
6 Route d'Ozoir, 77680  
Roissy en Brie, France  
Tel: +33 (0) 1 64402910  
Fax: +33 (0) 1 64409211

**TMI Canada**  
40 McCullough Drive  
New Castle, DE 19720  
Tel: (302) 613-5600  
Fax: (302) 613-5619  
canada@testingmachines.com



[www.testingmachines.com](http://www.testingmachines.com)

[www.lakotool.com](http://www.lakotool.com)

[www.lawsonhemphill.com](http://www.lawsonhemphill.com)