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# LTCM-100 Series Low Capacity Motorized Tester (110 lbf, 500N)

Specification Sheet  
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The CHATILLON® LTCM-100 Series is an economical, motorized tester ideal for production environments, research & development laboratories and quality functions. The LTCM-100 may be used for tensile, compression, peel, and flexural testing when combined with a Chatillon DF Series force gauge. A large working area and 5-inch (130mm) throat is perfect for large sample testing. The platform features pre-drilled holes for custom fixturing or for use with Chatillon fixtures. The crosshead travel is selectable in either inches per minute or millimeters per minute. The speed range is 0.2 to 20 inches/min (5 to 500 mm/min). A dial is used to set the speed requirement and a digital display indicates the speed selected to 0.1 resolution. Crosshead travel is 15 inches (380mm). An Up and Down switch is used to control crosshead travel direction. A simple switch setting can be used to reverse crosshead speed direction at maximum speed at the completion of a test. An emergency stop is located on the console for easy access. Mechanical limits may be set to stop crosshead travel at a specified position. Rules are provided on the front face and crosshead face of the column for accurate placement and for measuring extension. Positive braking ensures a precise stop.

## Features

- Tensile, Compressive, Peel & Flexural Testing
- Compact, Benchtop Design
- Simple Operation with Intuitive Controls
  - Crosshead Direction
  - Return Speed
  - Speed Selection
  - Emergency Stop
  - On/Off
- Mechanical Limits & Positive Braking
- Large Working Area and Throat for Large Samples
- Selectable Display with Digital Speed Readout
  - Inches per Minute
  - Millimeters per Minute
- 2 Year Warranty

## Specifications

- Capacity:** 110 lbf (500N)
- Crosshead Speed:** 0.2 to 20 in/min (5 to 500 mm/min)
- Speed Accuracy:** ±3% at Full Capacity
- Travel:** 15-inches (380mm)
- Load Measurement:** Chatillon Force Gauge
- Supply Voltage:** 110/230Vdc
- Operating Temperature:** 40°F to 110°F (5°C to 45°C)
- Weight:** 39 lbs (17.7 kg) approx.



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# LTCM-100 Features

## Easy Operation

### Simple and Accurate Speed Control

The LTCM-100 console controls are intuitive and easy to use. Users can specify speed in either inches per minute or millimeters per minute. The speed control knob is used to adjust speed from 0.2 to 20.0 in/min or 0.5 to 500 mm/min. Speed accuracy is better than 3%. The Up and Down key is used to control crosshead direction.

### Independent Return Speed

A separate return speed switch can be positioned so that the crosshead returns to zero at maximum speed or at the speed indicated by the display.

### Adjustable Deflection Limits

Deflection limit switches are supplied on the front of the column. The column contains increments in inches and millimeters for positioning the limit switches and for measuring sample deflection. Position and "lock-in" a High and Low deflection limit to protect your gauge from overload conditions or for ending your test at a distance traveled. The crosshead travels up to 15-inches (380mm).



## Excellent Performance

### Production or Laboratory Environment

The LTCM-100's rugged construction and simple operation make it ideal for production environments, laboratory applications or for R&D applications. Its lightweight design (38 lbs, 17.7 kg) makes it portable yet rugged enough for testing up to 110 lbf (500 N). Combine with a Chatillon DFS Series force gauge and you have a force measurement system with a load accuracy of better than 0.1% full scale. The tester is ideal for tensile, compression, peel, shear, and flexural testing when used with the appropriate grips/fixtures.

### Large Working Area

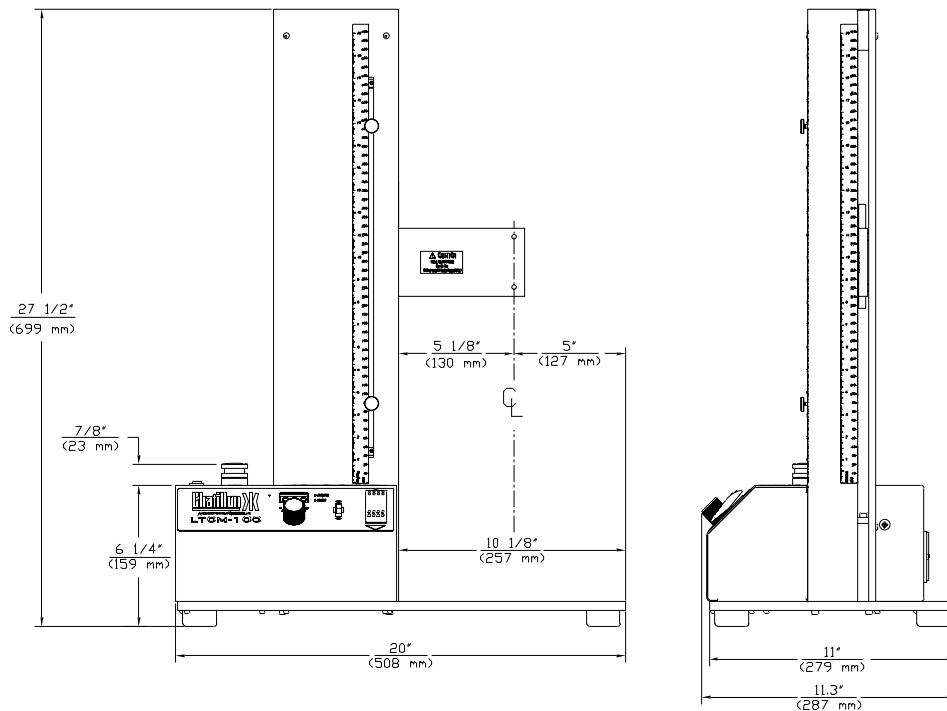
The LTCM-100 features a large working area capable of securing samples up to 10-inches in diameter. The crosshead throat is greater than 5-inches (127mm).

### Flexible Fixturing

The crosshead has been optimized for use with Chatillon DF Series digital force gauges. The DFE and DFS Series mount directly to the crosshead without special adapters. The work surface features 13 individual mounting holes (#10-32) for installing grips or special fixtures.



## Dimensions - LTCM-100 Series



## Ordering

Model	Capacity	Description
LTCM-100	110 lbf (500N)	LTCM-100, 115/230Vac, US Plug
LTCM-100-EU	110 lbf (500N)	LTCM-100, 115/230Vac, EU Plug
LTCM-100-UK	110 lbf (500N)	LTCM-100, 115/230Vac, UK Plug

## Standard Accessories

Part No.	Description
3157	#10-32x 3/4" Set Screw
SPK-FMG-012B	Hook, Stationary, 110 lbf
17109	Compression Platen



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