

# Digital Speedy Testers

## THE UNITED MODEL LCH SPEEDY TESTER

The United Model LCH Speedy Tester is a portable model, hydraulic testing machine incorporating a highly accurate, built-in digital information system for the display of test data. Designed to perform a variety of tests, the Speedy Tester features automatic rate-of-load display, overload protection and rugged construction for years of reliable, troublefree testing. The versatile, easy to use Speedy Tester can be fitted with a variety of different grips and fixtures to accommodate a wide range of materials and applications.



Image applicable for LCH-10, LCH-20, and LCH-30

### Specifications

<b>Machine Capacity</b>	LCH-10: 50 kN (~10,000 lbs.) capacity LCH-20: 100 kN (~20,000 lbs.) capacity LCH-30: 150 kN (~30,000 lbs.) capacity
<b>Gripping System</b>	LCH-10: 1" (25.4mm) wide wedge grips LCH-20: 1" (25.4mm) wide wedge grips LCH-30: 2" (50.8mm) wide wedge grips
<b>Load Rate</b>	Variable. Approx. 100 lbs. (0.44 kN)/min. to a maximum of 40,000 lbs. (178 kN/min)
<b>Return Speed</b>	4 inches (102mm) per minute
<b>Piston Travel</b>	4.75 inches (121 mm)
<b>Column Height</b>	30 inches (762mm)
<b>Power Req.</b>	120V, 60Hz, 20A or 240V, 50HZ, 10A
<b>Weight</b>	160 lbs. (72.6Kg) excluding grips
<b>Dimensions</b>	23" wide x 42" high x 12" deep

### Standard Features

- Automatic rate-of-load display
- Digital display with resolution of one pound
- RS-232C port
- Peak load detection—displays and freezes highest reading obtained
- Overload protection system
- Interchangeable load cell capability—standardization feature allows interchangeability of load cells without recalibration
- Easily adjustable crosshead
- High accuracy—within  $\pm 0.5\%$  of indicated load + 0.005% of capacity
- Quality construction—constructed of highest grade materials and U.S. made, precision components
- JOG sample pre-load system

### Available Options

- Additional vertical column height
- Low cycle fatigue/proof load system
- Custom floor stand with storage
- Various grips & fixtures
- Lower capacity load cells
- Compression cage
- Safety cabinet
- Over travel switch
- Special painting

### Model DIG-500

United's Model DIG-5000 Smart Digital Readout is a revolutionary approach to the presentation of alpha numeric test data. This unique precision data acquisition system is designed for ease of use while providing the user with a variety of options usually available only with computer controlled test machines. Test data such as load range, peak, and instant load is displayed simultaneously on an easy-to-read cool blue alpha numeric display. Simple push-button operation allows quick selection of any desired measurement unit including pounds, kilograms, Newton, and placement of the decimal point at any desired location on the scale. The panel can be locked out to prevent unauthorized changes to the setup.

<b>Display range</b>	20 digits
<b>Update rate</b>	20 readings per sec.
<b>Display face</b>	4 lines, 20 characters/line
<b>Character size</b>	1/4" high
<b>Power</b>	115/230V, 50/60Hz, 20A
<b>Operating Temp.</b>	+10°C to +50°C
<b>Dimensions</b>	5" high x 5" wide x 8" deep
<b>Weight</b>	5.5 pounds
<b>Accuracy</b>	Meets ASTM E-4 requirement
<b>Automatic display</b>	Set load range Peak load Instant load
<b>Selectable functions</b>	Sample break detect sensitivity, time-set/display, measurement units, decimal point location, load rate display, send data via RS-232 port.



UNITED TESTING SYSTEMS



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