

Digital Speedy Testers

THE UNITED MODEL LCH ZERO 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.



Specifications

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

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

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

Model DIG-7000

United's Model DIG-7000 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.



Digital Readout Specifications

Voltage	100 to 240 VAC nominal
Freq	50/60Hz
Current	max. 50mA (5 Watts)
Resolution	24 bit
Total counts	16,777,216
Sample rate	10 Hz
Resolution	800 x 400
Backlight	>20,000 hours
Data display	Set load range, Peak load; instant load
Ambient Temperature	14 to 122°F -10 to +50°C
Operating Temperature	32 to 104°F 0 to +40°C
Accuracy	Meets ASTM-E4 requirements with United load cells, exceeds ASTM-E4 requirements down to 1%
User selectable functions	Sample break detect sensitivity Time-set/display Measurement units – select Decimal point location – select Send data – via RS-232 port Load rate display
Options	Automatic proof loading Overload-detect

Features

- 9 touch-selectable units of measure (Lbf, N, kN, kgf, gf, mV/V, mV, PSI, MPa).
- Simultaneous display of peak, grow, and rate values.
- Resistive to uchsreen allows use of gloves.
- Enlarged gross force or stress value display.
- Selectable auto-scaling decimal place by value magnitude.
- 20 available stored load cell profiles with up to 5th order polynomial fit.
- Automated printing & peak reset triggered by specimen break.
- Configuration security PIN.
- Durable buttons for harsh environments and touch feature enable/disable.
- Serial printing.
- Stress area calculation.
- 7 inch LED touch screen
- Screen saver feature


UNITED TESTING SYSTEMS




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