



Physical Test Solutions

Innovative Solutions in Material Test Equipment

Series HLC-150 Hydraulic Low Capacity Universal Testing Machine

The series HLC-150 is the newest product in the extensive line of PTS hydraulic testing machines. This innovative model truly has no equal. At a price that is untouched by a similar product in the world market, the HLC-150 is the ideal solution for a variety of applications and provides performance to do the job with the utmost reliability at an affordable price. The HLC-150 comes in three models, the HLC-150 that includes servo control capabilities with digital display, the HLC-150-B, a basic unit that does not have servo control capabilities, and the HLC-150-C computerized unit. Amongst the many applications for the HLC-150 are; Fastener testing (pop rivets) in go no-go applications, incoming inspection for wire manufacturers, spot welding applications, weld bend tests, lap shear, sheet metal/banding tests, pull hoses and many more. The machine is equipped with a double servo cylinder (actuator), and is controlled by a servo valve. The highly efficient hydraulic power supply has a smooth low noise operation during test. The unit incorporates accurate load cell technology for force measurement and features a digital display. The unit has many standard features that are available as options with other similar units. The unique design of the series HLC-150 allows compression testing without the need of a compression cage.

HLC-150 Features

- ⇒ Practical compact design.
- ⇒ Conveniently mounted digital display.
- ⇒ Displays maximum load, load in real time, and yield strength and test curve in real time.
- ⇒ Data can easily be sent to a printer for print-out.
- ⇒ Automatic control mode.
- ⇒ Automatic rate of speed control.
- ⇒ Automatic rate of load display
- ⇒ Ethernet output
- ⇒ RS232 Output for micro-printer
- ⇒ No need for compression cage in compression applications.
- ⇒ Overload safety feature.
- ⇒ Interchangeable load cells for accurate measurement.



HLC-150





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HLC-150-B Features

- ⇒ Practical compact design.
- ⇒ Conveniently mounted digital display.
- ⇒ Displays maximum load, load in real time and test curve in real time.
- ⇒ Ethernet output
- ⇒ RS232 Output for micro-printer
- ⇒ No need for compression cage in compression applications.
- ⇒ Overload safety feature.
- ⇒ Interchangeable load cells for accurate measurement.



HLC-150-C Features

- ⇒ Practical compact design.
- ⇒ Computerized microprocessor control.
- ⇒ Versatile MaxTest software for data acquisition, test control, archiving and report generation functions.
- ⇒ Displays maximum load, load in real time, and yield strength and test curve in real time.
- ⇒ Data can easily be sent to a printer for report print-out.
- ⇒ Automatic control mode.
- ⇒ Automatic rate of speed control.
- ⇒ Automatic rate of load display
- ⇒ Ethernet output
- ⇒ No need for compression cage in compression applications.
- ⇒ Overload safety feature.
- ⇒ Interchangeable load cells for accurate measurement.



HLC-150 with compression plates

Specifications:

- ❖ 150 KN (33,750 lb) capacity
- ❖ Load measuring range: 4%-100% of FS
- ❖ Load accuracy: $\pm 1\%$
- ❖ Tensile space: 200-300 mm (8" – 12")
- ❖ Wedge grip width: 25.4mm (1")
- ❖ Flat grip inserts: 0-9.5mm (0 - .37")
- ❖ Piston stroke: 130mm (5")
- ❖ Piston return speed: ≥ 110 mm/min (4.3 "/min)
- ❖ Load Frame dimensions: 500x510x1605mm; (19" x 20" x 63")
- ❖ Net weight: 250 kg (555 lb)



HLC-150-C





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Standard Accessories

- ✓ Load cell
- ✓ Wedge grips.
- ✓ Flat and Vee inserts
- ✓ Extensometer (not available in model HLC-150-B)
- ✓ Computer (only with HLC-150-C model)
- ✓ MaxTest software (only with HLC-150-C model)

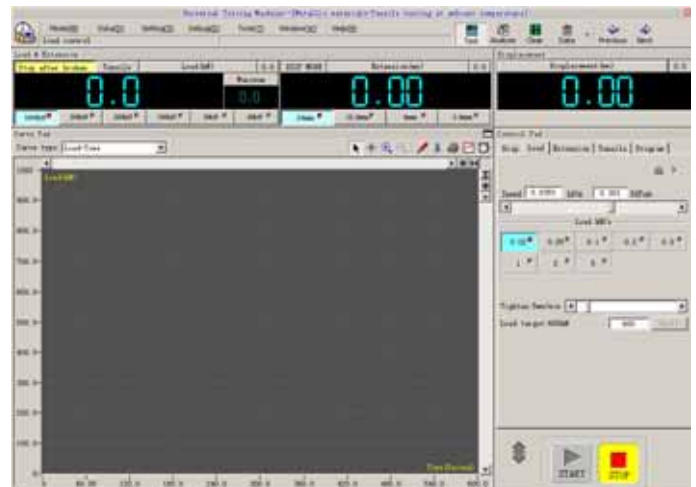
Options:

- ❖ Upgrade to computer data acquisition. (For HLC-150 model)
- ❖ Micro-printer for digital display version.
- ❖ Compression plates

PTS *MaxTest Software*

The **PTS *MaxTest Software*** operates in a windows environment and combines a user friendly working operation with powerful data acquisition and control capabilities. The **PTS *MaxTest Software*** has the following outstanding features:

- Full digital control
- Individual or Batch Testing Capabilities
- Test Curve Analysis
- Convenient and Practical Parameter Settings
- Multilevel Security Management
- Automatic Program Control
- Versatile Test Report Generation
- Practical Database Management



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