HM-5150A.3F CBR and LBR Loader

The HM-5150A Loader has been specifically designed to handle CBR and LBR applications. Its heavy-duty design and precise stepper-motor control provide a stable platform for years of reliable service. From educational institutions and consulting firms to high-volume commercial labs and construction projects, the CBR and LBR Loader can handle these applications with ease.

The HM-5150A is built around Humboldt's integral, data logger with touch-screen control, which allows the load frame to be used as a standalone device capable of full test control and data logging. Humboldt's Next software and HM-5001SW Next test-specific CBR/LBR software module are included with the HM5150A load frame. This software provides robust machine control, calibration, data acquisition and report generation for those using a computer to control load frame operations.

In stand-alone mode, the HM-5150A load frame provides a 7" (178mm) touch-screen controller. These new waterproof, touch screens provide colorful, at-a-glance monitoring of testing functions without the use of a computer. Operators can see all the data in several formats at the machine while the test is running. Data can then be viewed simultaneously or downloaded later to a computer in the lab, in the next room or at a different location, while also providing report generation capabilities from within Humboldt's NEXT software enhanced CBR and LBR-specific software module

The HM-5150A is sold as a Load Frame ONLY, other accessory items are available to perform CBR tests.

HM-5150 Specifications		
Load Capacity	11000 lbf (50kN)	
Speed Range	0.05 in/min (1.27mm/min)	
Data Channels	2	
Data Storage	1000 tests and up to 3000 readings per test	
Platen Size Travel	8" (203mm) / 4" (100mm)	
Clearance	27" (686mm) Vertical 11" (279mm) Horizontal	
Voltage	110/220V 50/60Hz - 5.0 amps	
Net Weight	120 lbs (54kg)	



CBR/LBR Setup: HM-5150A.3F		
Description	Part #	
(1) Pancake load cell, 11,000lbf (50kN)	HM-2300.100CP	
Linear Potentiometer Transducer, 1" (25mm)	HM-2305.10	
(1) Penetration piston with stud	H-4178	
(1) Linear Potentiometer Universal Bracket	HM-5000BR	
(1) NEXT CBR/LBR software module	HM-5001SW	

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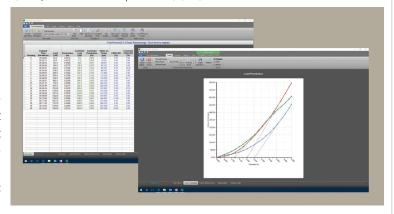
Computer Control

Humboldt's Next software and HM-5001SW Next test-specific CBR/LBR software module are included with the HM-5150A load frame. This software provides robust machine control, calibration, data acquisition and report generation for those using a computer to control load frame operations.

Humboldt's NEXT software and the CBR and LBR-specific module provide you with the following capabilities:

- Test-specific setup that guides you through the process, which includes selecting data collection parameters that best fit the specific test
- Input specific project information for each test, such as project name, client information, etc
- All test-specific initial, intermediate, and final parameters required by ASTM and BS standards are dynamically calculated for you, based on your input of specimen information, such as size, weight, etc
- Tabulated test data, graphs and all test-specific calculations are provided in real time, allowing you to monitor tests in process
- Generate test-specific reports that include all graphs and data presented in a project
- Create and store test-specific test setup templates for rapid setup of future tests
- Produce test-specific graphs, which allow you to draw construction lines to calculate angles and other test-specific parameters
- Automatically recover from a PC shutdown without loss of data
- All unit parameters can be adjusted individually
- Simultaneously run multiple tests on one computer, involving any of the available NEXT software modules and any compatible Humboldt equipment up to 255 device connections, which is up to 1020 inputs
- Access free, downloadable software upgrades for purchased modules

CBR/LBR Module, HM-5001SW



Stand-alone Control

Humboldt's touch-screen controller provides you with full, graphical monitoring of all testing functions in a standalone application, while maintaining full computer control when desired.

The seven-inch, waterproof screen provides at-a-glance monitoring of testing functions, in a real-time graphical display, without the use of a computer, building upon Humboldt's dedication to modular, stand-alone data acquisition.

In a stand-alone application, you will be able to run tests and display results while viewing tabulation, basic x-y graphs and instrument readings in real-time during the test, using user-defined, basic data acquisition. Test data is stored in the device and can be downloaded to a USB drive via the machine's FRONT USB port or the data can be transferred to a computer via the LAN port.

A second USB port located on the back of the machine can also be used to power a wireless access point, which can provide a wireless hook-up with a computer, if no LAN is available.

Touch-Screen Controller provides:

- 2-channel data acquisition
- Hi-res, 7," waterproof, touch-screen provides total control and real-time graphical display of tests
- Machine /Test control and data acquisition via touch-screen
- Calibration of channels to load cells, transducers and other suitable instruments
- Real-time graphical chart and numerical display of tests via touch-screen display
- Effective sampling rate of 50 readings per second
- Stores up to 1000 tests with 3000 points per test
- 2 USB ports. One in front for data transfer and the rear port is for powering a wireless access point.



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