

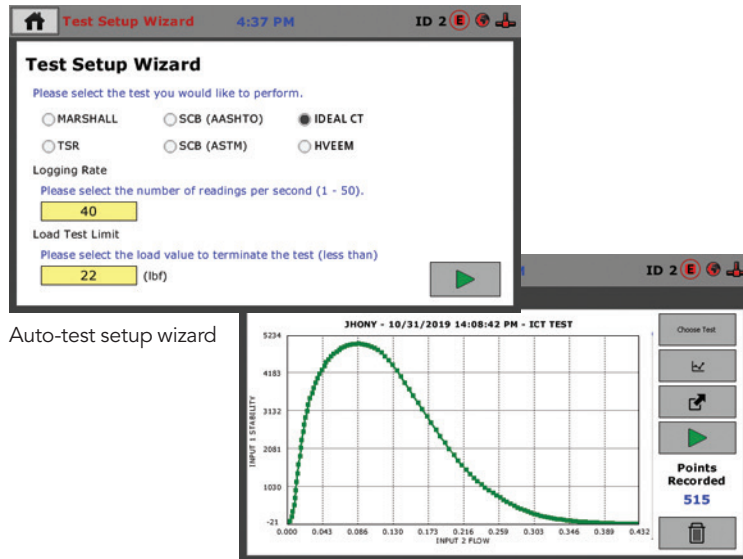


HUMBOLDT

Balanced Mix Load Frame HM.5125.3F



HM-5125.3F



Auto-test setup wizard

Test results curve

Balanced Mix, Automated Load Frame

ASTM D8225, D8084 (LSU Method), Ideal-CT (TTI Method), D5581, D6931; AASHTO TP124 (IL Method), T245, T283; BS 598; EN12697-34

Humboldt's HM-5125.3F load frame has been designed to provide precise test rate control for the automated testing of balanced mix samples. It is also capable of handling Ideal-CT SCB (ASTM), SCB (AASHTO), Marshall, TSR and HVEEM tests. This easy-to-operate load frame allows you to easily choose your test and its parameters in the Test Setup Wizard for automated operation of the testing process and results.

The HM-5125's 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 HM-5125 Load Frame can perform these applications with ease.

The HM-5125 is built around Humboldt's integral, data logger with touch-screen control, which allows the load frames to be used as standalone devices capable of full test control and data logging. Operators can see all the data in several formats at the machine during the testing procedure. For those wishing to print out test results, you can utilize Humboldt's, free Data Download Software.

Balanced Mix Load Frame

For iFIT applications, the user may wish to import the machine test data to Humboldt's Data Download software and then export from Humboldt Data Download to a file acceptable for the iFIT software. The iFIT is currently not stand alone and requires external PC software.

Standalone Control

Touch-Screen Controller Provides:

- Multi-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 cell and transducer
- 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.

The HM-5125 is sold as a Load Frame ONLY, refer to the Testing Setup charts on this page and the next to perform specific tests.

HM-5125.3F Specifications	
Load capacity	11000 lbf (50kN)
Speed Range Testing: Fast Approach:	As Defined by Test 3.0 in/min (75.0 mm/min)
Data channels	2
Platen Size / Travel	10" (254mm) / 4" (100mm)
Data storage	1000 tests and up to 3000 readings per test
Clearance, vertical	40" (1000mm)
Clearance, horiz.	15" (380mm)
Voltage	110/220V 50/60Hz. 5.0 amps

Typical IDEAL-CT Testing Setup

Description	Qty	Part #
Balanced Mix load frame	1	HM-5125.3F
Load Cell, S-type 11,000 lbf (50kN)	1	HM-2300.100
Strain Transducer 1" (25mm)	1	HM-2310.10
Transducer Bracket	1	H-1327B
Lottman breaking head, 6"	1	H-1369

Typical SCB Testing Setup

Description	Qty	Part #
Balanced Mix load frame	1	HM-5125.3F
Load Cell, S-type 11,000 lbf (50kN)	1	HM-2300.100
Strain Transducer 1" (25mm)	1	HM-2310.10
Transducer Bracket	1	H-1327B
Semi-Circular Bend Test (SCB) Head	1	H-1351

Typical Marshall Testing Setup

Description	Qty	Part #
Balanced Mix load frame	1	HM-5125.3F
Load Cell, S-type 11,000 lbf (50kN)	1	HM-2300.100
Strain Transducer 1" (25mm)	1	HM-2310.10
Transducer Bracket	1	H-1327B
Marshall head, 4" Marshall head, 6" (choose one)	1	H-1349 H-1369
Marshall Software Module	1	HM-5005SW

Typical TSR Testing Setup

Description	Qty	Part #
Balanced Mix load frame	1	HM-5125.3F
Load Cell, S-type 11,000 lbf (50kN)	1	HM-2300.100
Strain Transducer 1" (25mm)	1	HM-2310.10
Transducer Bracket	1	H-1327B
Lottman head, 4" Lottman head, 6" (choose one)	1	H-1349 H-1369



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