



HUMBOLDT

HM-1327 Marshall/TSR Loader

The HM-1327 is a fully automatic, single-speed Load Frame, 2.0 inches/minute, (50mm/minute), designed for those who want a high-quality, application-specific Load Frame that provides simple operation with built-in data acquisition capabilities. The HM-1327 provides two channels with integral data acquisition to accommodate a load cell and transducer for Marshall testing. The machine's digital display provides the ability to monitor test data in real-time, as well as the ability to see a test's peak value at a glance.

The HM-1327 can be ordered alone (HM-1327); or, as a Marshall/TSR machine (HM-1327MAR), or as a TSR machine (HM-1327TSR). An optional chart recorder, HM-1327.400.3F, can be ordered separately for those requiring a real-time, hard copy of the test data.

Features include:

- 8" platen provides roomy, stable base for test equipment
- Two channels with real-time data acquisition
- Backlit LCD displays test data and peak value at a glance
- Battery-backed, real-time clock
- RS232 interface provides computer control and downloading of test data.
- Chart recorder output.
- Nonvolatile test data storage and instrument calibration
- Auto conversion of instrument calibration between English or Imperial units and SI or metric units
- User-selectable Marshall or TSR test functions
- Machine auto reverses to home position at the end of test
- Automatic triggering of test data logging



HM-1327MAR machine shown with the optional, HM-1327.400.3F chart recorder and H-1342 Breaking Head.

HM-1327MAR— machine for Marshall/TSR testing, includes a 10,000 lb (50kN) S-type Load Cell and a 1" (25mm) Strain Transducer, as well as Humboldt's Marshall HMTS Reporting Software Marshall Module HM-3005SW.

HM-1327TSR— machine for TSR testing, includes a 10,000 lb (50kN) S-type Load Cell.

HM-1327 Marshall/TSR Loader

Specifications

Dimensions (l x w x h)	17 x 19 x 59 inch (430 x 480 x 1500mm)
Platen Travel	3 inches (75mm) Max.
Net Weight	240 lbs. (110Kg)
Shipping Weight	285 lbs. (130Kg)
Speed	2 inch/min (50 mm/min)
Load Capacity	11000 lbf (50 kN)
Vertical Clearance	40 inch (1000mm) Max.
Horizontal Clearance	15 inch (380mm)
Voltage	110 VAC 50/60HZ
.2F models	220 VAC 60Hz
.5F models	220 VAC 50Hz
Current	8.5 Amps
Analog to Digital Converter	16 Bit
Data Storage	4000 Readings
Data Collection Rate	100 ms
Computer Port	RS232

Optional Accessories:

HM-1327.400.3F Chart Recorder Assembly

Note: Chart recorder requires specific calibration for use with HM-2300.100 S-Type Load Cell

HM-1327CP Chart Paper, Dual Scale, (100PD)

HM-1327RP Pens, 6 pk., Black (thin)

HM-000377 Computer Cable, USB to RS-232 for computers with USB ports only

HM-1327 HM-1327.2F HM-1327.5F

Includes:

Load Frame

Humboldt HMTS Reporting Software, Entry Level Version

HM-000364 Serial Cable, DB9F-DB9M, 10ft

SHH04 3/4-16 Bolt x 3-1/2 inch long

WF04 Washer for SHH04 Bolt

Application Specific Machines:

For Marshall:

HM-1327MAR

HM-1327MAR.2F

HM-1327MAR.5F

Includes:

HM-1327 Load Frame

HM-3005SW Marshall Reporting Software

HM-2300.100 S-Type Load Cell 10,000 LBS (50kN)

HM-2310.10 Strain Transducer, 1" (25mm)

H-1327B Strain Transducer Bracket

For TSR:

HM-1327TSR

HM-1327TSR.2F

HM-1327TSR.5F

Includes:

HM-1327 Load Frame

HM-2300.100 S-Type Load Cell 10,000 LBS (50kN)

For H-1322B Replacement:

HM-1327WCR

HM-1327WCR.2F

HM-1327WCR.5F

includes:

HM-1327 Load Frame

HM-1327.400.3F Chart Recorder Assembly

HM-2300.100 S-Type Load Cell 10,000 LBS (50kN)



Humboldt Mfg. Co.
www.humboldtmfg.com
3801 North 25th Avenue
Schiller Park, Illinois 60176 U.S.A.

U.S.A. Toll Free: 1.800.544.7220
Voice: 1.708.456.6300
Fax: 1.708.456.0137
email: hmc@humboldtmfg.com