

Pro-Loader II Load Frame HM-398 and HM-398F

INTRODUCTION:

The HM-398 Load Frame is one of our most versatile testing units. The Pro-Loader II can be utilized for the following soil tests: California Bearing Ratio (CBR), Unconfined Compression (UC), Triaxial Compression, and Soil Cement. In addition, the following Asphalt tests: Marshal, Lottman, TSR, IDT, SCB and Tack Coat shear can all be performed. This unit also features strain rates – 0.02-2.0in/min (0.508-50.8mm/min) – controlled to $\pm 1\%$ of set point. Front panel controls allow the operator to adjust the direction and speed of the platen, as well as select the strain rate. Sliding the cross-arm up or down the coarse-threaded 1.25in (32mm) diameter rods and tightening the nuts makes adjustment for the wide variety of testing components quick and easy.

FEATURES:

- Strain rate of 0.02-2.0in/min (0.508-50.8mm/min) allows for multiple testing options (calibration chart included)
- Powerful 3/4hp DC drive motor
- Load capacity up to 10,000lbf (44kN)
- Durable 14-gauge steel cabinet and precision loading screw with protective boot
- Standard 8in (203mm) diameter platen
- 1.25in (31.8mm) diameter vertical rods with coarse threads
- Front panel controls
- Upper and lower limit indicator lights
- Three-position control switch has built-in hesitation to prevent damage to the motor when reversing direction
- Corrosion-resistant components

UNPACKING & SET UP:

1. Inspect your HM-398 for damage, remove it from the pallet
2. Adjust the crossarm to the appropriate height
3. Install any accessories needed for the test



HM-398 shown with HM-413, HMA-517 and HMA-94

(Continued on back.)

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CONTROLS:

1. Main Power On/Off: Includes an indicator light to show when the power is on
2. Platen Direction: Three-position switch (up, down and off) includes built-in hesitation to prevent motor damage when reversing direction
3. Limit Lights: Indicate when upper and lower limits are attained
4. Strain Rate: Three-segment thumbwheel selector (strain rate calibration chart included)
5. High-Speed Jog: Increases the speed of the platen when the switch is pushed to the up position

OPERATING INSTRUCTIONS:

1. Read all safety and operating instructions before operating the unit.
2. Power the unit with the Main Power switch (indicator light will show that the unit is on).
3. Based on the calibration chart (included), set the desired strain rate for the test using the three-segment thumbwheel selector.
4. Use the Platen Direction and High-Speed Jog switches to adjust the direction and speed of the platen for testing.
5. Center the Platen Direction switch to the off position when the test is complete.
6. Refer to ASTM and/or AASHTO test methods for specific test instructions.