

Model 7611 Load Frame

10,000lbf (44.5kN) Capacity

0.001—0.1in/min (0.0254—2.54mm/min) Strain Rate

INTRODUCTION

The versatile Karol-Warner 7611 Load Frame can be utilized for multiple soil tests. California Bearing Ratio (CBR), Unconfined Compressive Strength, Soil Cement, and Triaxial tests can all be performed when fitted with the required component set. This 10,000lbf capacity frame has a strain rate of 0.001 – 0.1 in/min (0.0254 – 2.54 mm/min) controlled to +/- 1% of set point. Front panel controls allow the operator to adjust the direction and speed of the platen. The strain rate is set using the calibration chart and the three-segment thumbwheel selector. 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 0.001—0.1in/min (0.0254—2.54mm/min) allows for multiple testing options (calibration chart included)
- Powerful 1/8hp 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
- Heavy 1.25in (31.8mm) diameter vertical rods with coarse threads
- Maximum frame opening of 11.9 x 37.3in (302 x 947mm)
- 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



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UNPACKING & SETUP

CAUTION: Shipping weight of the 7611 Load Frame is approximately 250lb (113kg). To avoid personal injury or machine damage, use proper equipment and technique when unpacking and moving the unit.

1. Inspect your Load Frame for damage, remove it from the pallet.
2. Adjust the cross arm to the appropriate height.
3. Install component set and any accessories required for testing.

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CONTROLS

4. **Main Power On/Off:** Includes an indicator light to show when the power is on.
5. **Platen Direction:** Three-position switch (up, down and off) includes built-in hesitation to prevent motor damage when reversing direction.
6. **Limit Lights:** Indicates when upper and lower limits are attained.
7. **Strain Rate:** Three-segment thumb wheel selector (strain rate calibration chart included).
8. **Jog Button:** Increases the speed of platen to the maximum speed of the load frame jack screw (0.1in/min) when the switch is pushed to the up position.

OPERATING INSTRUCTIONS

ELECTRIC SHOCK WARNING



**DISCONNECT AND LOCKOUT POWER
SUPPLY WHEN SERVICING THE UNIT**



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 thumb wheel 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.

Accessories

Model 7699 Rolling Cart for Load Frames