

Model 7621 Load Frame 10,000lbf (44.5kN), 0.0001–0.3in/min

INTRODUCTION

The versatile Load Frame can be utilized for multiple soil tests. Individual component sets can be fitted to the load frame to perform California Bearing Ratio (CBR), Unconfined Compressive Strength, Soil Cement, and Triaxial tests.

This 10,000lbf (44.5kN) capacity frame has a strain rate of 0.0001–0.3in/min (0.00254–7.62mm/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 thumbwheel selector. Sliding the crossarm 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

- Precision adjustable strain rate of 0.0001–0.3in/min (0.00254–7.62mm/min) allows for multiple testing options
- Maximum frame opening of 11.9 x 37.3in (302 x 947mm)
- The reliable DC motor regulates speed to within $\pm 1\%$ and is matched to the unique speed and torque requirements of the Load Frame.
- Load capacity up to 10,000lbf (44kN)
- Durable 14-gauge steel cabinet and precision loading screw
- Hardened steel 8in (203mm) diameter platen accepts a wide variety of test fixtures
- Heavy 1.25in (31.8mm) diameter vertical rods with coarse threads
- Front panel controls
- Upper and lower limit indicator lights
- Corrosion-resistant components

UNPACKING & SET UP

1. Inspect your load frame for damage, remove it from the pallet.
2. Place the Pro-Loader on a sturdy, level surface such as a bench top or Rolling Load Frame Cart.
3. Connect to a properly grounded power supply with correct voltage and amperage output.
4. Adjust and level the crossarm to the appropriate height.
5. Install required Component Set and any accessories required for testing.



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FRONT PANEL CONTROLS

1. **Main Power On/Off:** Switch is illuminated when **ON**.
2. **Strain Rate:** Thumb wheels are used to select the platen speed.
3. **Run:** Sets the platen direction and operates the unit continuously at the strain rate set by the thumb wheel.
4. **Stop:** Pressing the stop switch stops the platen movement.
5. **High-Speed Jog:** Increases the speed of the platen to 1.0 in/min when the switch is pushed to the up position.

INDICATOR LIGHTS

1. **Limit up, Red:** The platen has reached the upper limit of travel. No further movement upward is possible.
2. **Up, Yellow:** Shows the current direction of travel, when platen is moving up.
3. **Run, Green:** The load frame is in operating mode at the speed selected by the thumb wheels.
4. **Down, Yellow:** Shows the current direction of travel when platen is moving down.
5. **Limit down, Red:** The platen has reached the lower limit of travel. No further movement downward is possible.

OPERATING INSTRUCTIONS



1. Read all safety and operating instructions before operating the unit.
2. Connect the three-pronged plug to a properly wired grounded receptacle with appropriate electrical current for the machine.
3. Install kit or individual components to measure load, displacement, or other properties according to specific test method.
4. Power the unit on with the main power switch.
5. Mount the selected test fixture on the machine platen and ensure it is centered. Raise or lower the platen with the JOG switch so there is enough travel for the requirements of the test without reaching the mechanical limit.
6. Set the desired strain rate using the thumb wheel selector.
7. Use the Run switch to select the desired direction of travel by raising or lowering the switch. If a limit switch is active in the chosen direction, as indicated by the red limit indicators, the motor will not run. Once running, the appropriate yellow direction and green RUN indicators will be illuminated. The platen will run until the STOP button is pressed or a limit switch is tripped.
8. After the test is complete, use the JOG or RUN switch to reposition the platen.

Accessories

Model 7699 Rolling Load Frame Cart