FULLY AUTOMATED UNCONFINED COMPRESSION SYSTEM

Product Code

LoadTrac II

The LoadTrac II load frame provides compression/extension testing for a number of geotechnical tests that must have accurate control of the rate of dis-placement during loading. With acces-sories, the unit can perform uncon-fined compression, CBR, and triaxial shear phase testing.

The base unit includes a stepper mo-tor, lead screw, vertical tension rods and crosshead, displacement trans-ducer, electronic controls and network communications. Versions of the unit are available to test loads up to 90 kN (20,000 lbs.). Displacement rates can be set to any value between 0.00003 and 15 mm per minutes (0.000001 to 0.6 inches per minute).

The base unit can run in stand-alone mode without a computer. It includes built-in data acquisition and display capability. Sensor readings are dis-played in Sl or English units and stored in memory.

Optional software running in Win-dows® 2000, XP, Vista, 7 completely automates the test, reducing the data and preparing test results.

Applicable Test Standards

- ASTM D-2166, AASHTO T-208
  Unconfined Compression Testing of Soils
- ASTM D-1663 Compressive Strength of Molded Soil-Cement Cylinders

User Benefits

- Choose capacity to fit user needs from 22, 45 and 90 kN (5,000, 10,000 and 20,000 lbs.) models
- Total automation of data collection and reporting of test results
- Prepare tables and plots of report quality within minutes of completing a test
- Generate columns of data for easy reduction using your own spreadsheet software
- Ability to access and control the unit over a computer network using Geo-Net option

Technical Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>LTII-5,000</th>
<th>LTII-10,000</th>
<th>LTII-20,000</th>
<th>LTII-50,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>Stepper motor with built-in controls</td>
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<tr>
<td>Travel</td>
<td>Built-in displacement transducer with 76 mm (3 in.) range and 0.0013 mm(0.00005 in) resolution</td>
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<tr>
<td>Displacement</td>
<td>Control from 0.00003 to 15 mm per minute (0.000001 to 0.6 in. per minute)</td>
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<tr>
<td>Power</td>
<td>110/220 V, 50/60 Hz, 1phase</td>
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<tr>
<td>Dimensions</td>
<td>464x546 x1206 mm</td>
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<tr>
<td>Weight (approx.)</td>
<td>55 kg</td>
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Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
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</thead>
<tbody>
<tr>
<td>LTII-5,000</td>
<td>22 kN (5,000 lbs.) frame capacity</td>
</tr>
<tr>
<td>LTII-10,000</td>
<td>45 kN (10,000 lbs.) frame capacity</td>
</tr>
<tr>
<td>LTII-20,000</td>
<td>90 kN (20,000 lbs.) frame capacity</td>
</tr>
<tr>
<td>LTII-50,000</td>
<td>222 kN (50,000 lbs.) frame capacity</td>
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Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
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<tbody>
<tr>
<td>7020</td>
<td>75 mm (3.0 in) platen with load cell adaptor</td>
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<tr>
<td>Geo NET™</td>
<td>Network/Communication card and cable to link load frame to PC.</td>
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<tr>
<td>UC</td>
<td>Software package to automatically run and report UC tests</td>
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Option

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
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<tbody>
<tr>
<td>UC Report</td>
<td>Editing/reporting software for multiple tests</td>
</tr>
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</table>