1.0 Installation.

1.1. On receipt remove all packing and inspect the unit for visible damage received in transit. If found notify the supplier and carrier within three days of receipt.

1.2. Check that the Electrical Specification of the machine as shown on the rating plate is suitable for the supply available.

1.3. Check the loose components against the enclosed Packing List.

1.4. Mount the machine on the 4 Anti-vibration Mounts to a firm and level surface. Level the machine with a spirit level placed on the specimen running surface of the steel lap wheel.

1.5. Connect the Control Panel assembly as detailed (see separate installation sheet enclosed).

1.6. Connect the Flexible Cable provided, either to a fused three pin plug or preferably through a fused and switched isolator, rated for the supply shown on the rating plate. The isolator fuse must be rated at 13.0 Amps for a 240V AC, 1Ph, 50Hz supply source. Connect as follows:
   - Brown to Live (L)
   - Blue to Neutral (N)
   - Green/Yellow to Earth (E)

1.7. A mains protection fuse is fitted to the front panel, it’s rating is 10 Amps.

1.8. The 24VDC Control Circuits are protected with a 2.5 Amp fuse mounted on the front panel.

1.9. Running the machine supply voltage through a 30mA RCD (Residual Current Device) is recommended.

1.10. Check earth continuity.
2.0 Test Procedure.

2.1. Refer to BS 812: Pt.113: 1990. BS EN 1097-8 : 2000

2.2. The timer / counter is factory pre-set to 500
   To adjust timer / counter :-
   Ensure S890 is stopped
   Press P on the timer / counter
   Using ^ and < buttons set the required number of revolutions
   Press P or wait until timer / counter reverts to its quiescent state.
   Press reset button (red button) your parameters will be displayed.

2.3. Set both Sand Hoppers to allow 700-900 gm/min to flow. It may be convenient to
   remove the hoppers from the machine to do this.

2.4. To start the machine :-
   Close the lid of the machine. It won’t start with the lid open.
   Press the timer / counter reset button (red button).
   Press the green start button.
   The machine will automatically stop when the pre-set number of revolutions has
   been counted.

Note. The machine will stop if the lid is opened during operation. To resume the test
when the lid is re-closed press the START button. The test will resume its test cycle
providing the counter hasn’t ‘timed-out’ (reached 0).
3.0 General Conditions

3.1. In the event of an electrical supply disconnection, the machine is protected from restarting. Press the green start button to continue.

3.2. All guards are to be securely placed into position and closed before starting the machine. Isolate the supply before removing any fixed covers.

3.3. The S890 lap steel platter rotates at 30 rpm (nominally). The user (from the Control Panel) can accurately adjust this speed for optimum performance. The range of adjustment is approximately 25 – 39 rpm.

4.0 Maintenance.

4.1. All the bearings and the gearbox are greased packed for life and do not require any routine attention.

4.2. For smooth running and retention of the calibrated speed it may be necessary to adjust the tension of the belt drive between the motor and the gearbox. A slack belt will cause loss of speed and vibration. A tight belt will cause harsh running and may overload the bearings.

5.0 Spares / Consumables

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bull-nose Weight (each)</td>
</tr>
<tr>
<td>Specimen Mould Set (2x mould, mould plate , &amp; end plate)</td>
</tr>
<tr>
<td>Specimen Mould Tray (Set of 2)</td>
</tr>
<tr>
<td>Scraper Blades (Set of 2)</td>
</tr>
<tr>
<td>Calibration Weight (Set of 24)</td>
</tr>
<tr>
<td>Leighton Buzzard Sand (25Kg per tub)</td>
</tr>
</tbody>
</table>
Notes