EMC loadstools are accurate, rugged, pieces of equipment specifically designed to weigh the contents of hide curing drums. The hide and skin processing industry had long sought a reliable method of weighing hide curing drum contents, as, being able to weigh the contents of the drum ensures accurate repeatable results. In consultation with Tannery engineers, EMC developed its range of loadstools, the first installation being in 1978. Since then over 70 loadstools have been manufactured and are successfully operating in tanneries all over the world.

**Principle of Operation**

The EMC loadstool is a double flexure type scale base. It utilises 8 stainless steel flexures to transfer the weight to a single, hermetically sealed stainless steel loadcell. Heavy duty, stainless steel tie rods restrain the weighing section, and resist the out of balance forces of the rotating drum.

The loadstool supports the bearing at the non-drive end of the drum. The loadstool may be calibrated using the Loadstool Calibration Factor supplied with each loadstool or by using an accurate flow-meter, and filling the drum with a known amount of water.

The EMC weight indicator provided with the loadstool, is a state-of-the-art, microprocessor controlled unit, that provides a digital display of weight as well as a 4-20 mA output to link it with the batching control system used.

**Manufacture, Testing and Quality control**

The EMC loadstool is manufactured from heavy section steel plate. Each loadstool is sand-blasted and protected with a durable epoxy paint system before final assembly. Fastenings are all stainless steel to resist the harsh environment of the tanneries. Each unit is also put through a comprehensive test procedure in a purpose built test rig. This includes a 150% overload test, preliminary calibration, and a 10 point linearity test. All flexure bolts are tightened to a specific torque. A check sheet is signed off by the tradesman who completed the job. This check-sheet is included with the customer’s manual. EMC is an ISO 9002 accredited company, and all quality control methods used conform to this standard.
Loadstools for Hide Curing Drums

EMC INDUSTRIAL GROUP LTD
As we are continuously improving our products, changes to this specification may occur without notice.

EMC LOADSTOOL DIMENSIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CAPACITY</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS5T</td>
<td>5t</td>
<td>1300</td>
<td>350</td>
<td>870</td>
<td>380</td>
<td>235</td>
<td>50</td>
<td>60</td>
<td>230</td>
<td>1200</td>
<td>25</td>
</tr>
<tr>
<td>LS10T</td>
<td>10t</td>
<td>1300</td>
<td>350</td>
<td>870</td>
<td>380</td>
<td>235</td>
<td>50</td>
<td>60</td>
<td>230</td>
<td>1200</td>
<td>25</td>
</tr>
<tr>
<td>LS20T</td>
<td>20t</td>
<td>1400</td>
<td>400</td>
<td>1000</td>
<td>435</td>
<td>235</td>
<td>50</td>
<td>80</td>
<td>240</td>
<td>1300</td>
<td>30</td>
</tr>
<tr>
<td>LS30T</td>
<td>30t</td>
<td>1500</td>
<td>500</td>
<td>1000</td>
<td>500</td>
<td>290</td>
<td>80</td>
<td>80</td>
<td>340</td>
<td>1340</td>
<td>40</td>
</tr>
</tbody>
</table>

Special Note

EMC Loadstools are designed to be used with roller bearings. The bearings at the drive end of the drum must act as length-wise restraints. The loadstools are not designed to restrain the drum in this direction. The use of plain bearings puts longitudinal forces onto the loadstool as they do not restrain the drum. This will eventually cause damage to the loadstool.

Available from

EMC INDUSTRIAL GROUP LTD
56 Tarndale Grove, Albany, Auckland 1331
PO Box 101 444, NSMC Auckland 1330, New Zealand
Phone +64-9-415 5110, Fax +64-9-415 5115
Email sales@emc.co.nz