The J&M Model 220 Hydraulic Impact Hammer

Engineered for long-term investment value and maximum ownership utilization

- All J&M hydraulic impact hammers operate with a patented 100% hydraulic, infinitely variable stroke control system. On the J&M hammers, you will find no troublesome electrical connections, fragile sensors or complex computer controls.
- All J&M hydraulic impact hammers have a super-tough, single-piece, ferro-chromium alloy forged ram to eliminate segmental ram separation or ram point failures.
- All J&M hydraulic impact hammers utilize a time-proven and ultra-rugged 4-column tensioned cable connected design.
- All J&M hydraulic impact hammers have a patented hydraulic ram cycle control system that eliminates energy-robbing backpressure and ensures maximum energy to the pile.
- All J&M hammers are built with hard-chromed columns and self-lubricating nylon ram bearings to minimize friction and maximize transferred energy.
- Supplied with environment friendly non-toxic biodegradable hydraulic oil.
- Remote electric pendant control includes engine speed control for fuel efficiency and emergency engine stop for personnel safety. Duplicate full-function controls on panel eliminate downtime from accidental damage.
- Optional radio remote control provides total operator freedom of movement.
- Highest quality Volvo piston pumps in time proven reliable open-loop hydraulic system ensure maximum efficiency, maximum reliability and simpler, quicker unit serviceability.
- Optional digital radio energy monitoring system measures and records delivered energy for every blow but does not effect the otherwise 100% hydraulic control and operating system.

<table>
<thead>
<tr>
<th>HAMMER</th>
<th>POWER UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ram weight</td>
<td>Engine</td>
</tr>
<tr>
<td>22,000 lbs (9978 kg)</td>
<td>Caterpillar 3306TA</td>
</tr>
<tr>
<td>Maximum stroke</td>
<td>Power</td>
</tr>
<tr>
<td>4 ft (1219 mm)</td>
<td>335 HP (250 kW)</td>
</tr>
<tr>
<td>Rated energy</td>
<td>Operating speed</td>
</tr>
<tr>
<td>88,000 ft-lbs (119 kJ)</td>
<td>2100 rpm (2100 rpm)</td>
</tr>
<tr>
<td>Blow rate @ maximum energy</td>
<td>Drive pressure</td>
</tr>
<tr>
<td>45 bpm (45 bpm)</td>
<td>5,000 psi (345 bar)</td>
</tr>
<tr>
<td>Minimum stroke</td>
<td>Drive flow</td>
</tr>
<tr>
<td>1 ft (305 mm)</td>
<td>87 gpm (330 lpm)</td>
</tr>
<tr>
<td>Hammer weight$^1$</td>
<td>Stroke system pressure</td>
</tr>
<tr>
<td>35,000 lbs (15875 kg)</td>
<td>4,300 psi (295 bar)</td>
</tr>
<tr>
<td>Operating weight$^2$</td>
<td>Stroke system flow</td>
</tr>
<tr>
<td>41,395 lbs (18776 kg)</td>
<td>5.2 gpm (20 lpm)</td>
</tr>
<tr>
<td>Hammer length$^3$</td>
<td>Weight (w/ full fluid &amp; fuel)</td>
</tr>
<tr>
<td>21’ 0” (6401 mm)</td>
<td>9,600 lbs (4355 kg)</td>
</tr>
<tr>
<td>Operating length$^2$</td>
<td>Length</td>
</tr>
<tr>
<td>23’ 7” (7188 mm)</td>
<td>126 in (3200 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>Width</td>
</tr>
<tr>
<td>32 in (813 mm)</td>
<td>60 in (1525 mm)</td>
</tr>
<tr>
<td>Depth</td>
<td>Height</td>
</tr>
<tr>
<td>48 in (1219 mm)</td>
<td>68 in (1730 mm)</td>
</tr>
<tr>
<td>Hydraulic hose length</td>
<td>Hydraulic reservoir</td>
</tr>
<tr>
<td>150 ft (45 m)</td>
<td>270 gal (1020 l)</td>
</tr>
<tr>
<td>Hydraulic hose weight</td>
<td>Fuel capacity</td>
</tr>
<tr>
<td>1,340 lbs (608 kg)</td>
<td>110 gal (415 l)</td>
</tr>
</tbody>
</table>

NOTES
1) Bare hammer weight and length only. No hoses or helmet are included.
2) Includes 18” square concrete helmet only. No hoses are included. See hose weight listed separately.