J&M Model 416S Vibratory Driver/Extractor

**VIBRATOR**

- Eccentric moment: 2,200 in-lbs (2535 kg-cm)
- Frequency: 1600 vpm (1600 vpm)
- Centrifugal force: 80 tons (710 kN)
- Amplitude (free hanging): 0.98 in (25 mm)
- Max line pull for extracting: 10 ton (355 kN)
- Weight (no clamps or hoses): 5,600 lbs (3360 kg)
- Non-vibrating weight: 1,900 lbs (1315 kg)
- Height (without clamp): 35 in (1780 mm)
- Length: 114 in (2415 mm)
- Width: 17 in (430 mm)
- Throat width: 14 in (355 mm)
- Hydraulic hose length: 100 ft (30 m)
- Hydraulic hose weight: 850 lbs (385 kg)

**POWER UNIT**

- Engine: Caterpillar C9
- Power: 375 HP (280 kW)
- Operating speed: 2100 rpm (2100 rpm)
- Drive pressure: 5,000 psi (345 bar)
- Drive flow: 87 gpm (330 lpm)
- Clamp pressure: 4,300 psi (295 bar)
- Clamp flow: 5.2 gpm (20 lpm)
- Weight (w/ full fluid & fuel): 12,600 lbs (5715 kg)
- Length: 126 in (3200 mm)
- Width: 60 in (1525 mm)
- Height: 68 in (1730 mm)
- Hydraulic reservoir: 270 gal (1020 l)
- Fuel capacity: 110 gal (415 l)

**HYDRAULIC CLAMPS:**

- Standard: Universal Clamp
- Single Sheet: Z-Pile Clamp
- Casing Clamps w/ 7’ Beam: 160 tons (1423 kN)
- Concrete & Small Pipe: Timber Clamp

<table>
<thead>
<tr>
<th>Clamping force</th>
<th>Weight</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>125 tons (1112 kN)</td>
<td>2,150 lbs (975 kg)</td>
<td>45 ¾ in (1160 mm)</td>
<td>12 in (305 mm)</td>
<td>37 ¾ in (960 mm)</td>
</tr>
<tr>
<td>125 tons (1112 kN)</td>
<td>3,190 lbs (1447 kg)</td>
<td>48 ½ in (1230 mm)</td>
<td>18 in (460 mm)</td>
<td>41 ¼ in (1050 mm)</td>
</tr>
<tr>
<td>160 tons (1423 kN)</td>
<td>3,260 lbs (1479 kg)</td>
<td>110 in (2795 mm)</td>
<td>13 ¾ (350 mm)</td>
<td>26 in (660 mm)</td>
</tr>
<tr>
<td>53 ton (470 kN)</td>
<td>4,970 lb (2255 kg)</td>
<td>43 in (1095 mm)</td>
<td>27 in (685 mm)</td>
<td>79 in (2005 mm)</td>
</tr>
</tbody>
</table>

**Built in America – Building America**

- High moment + low mass = maximum amplitude.
- Minimum height and weight.
- 10 ton elastomeric suspension.
- Environmentally friendly hydraulic fluid is standard.
- Remote electric pendant with engine throttle.
- Emergency stop buttons on pendant & power unit.
- Duplicate controls on panel eliminates downtime.
- Full range of standard piling clamps.
- Clamp has internal lock valve for safety.
- Clamp cylinder machined from solid – no leaks.
- Fully enclosed power unit with central lift.
- High quality, super efficient, piston pumps & motors.
- Optional digital radio remote control.
- Easily converted to normal HMC Model 26.
- Standard power unit runs full range of hydraulic tools.
- Proven power unit, proven reliability, open loop, hydraulic system.

7032 S196th Street
Kent, WA 98032
Phone: 800-248-8498
Fax: 253-872-8710