Potain HDT 80
Product Guide

Features

- 6000 kg (13,228 lb) maximum capacity
- 1350 kg (2976 lb) maximum capacity at 45 m (148 ft)
- 45 m (148 ft) maximum operating hook radius
- 53.7 m (176 ft) maximum hook height with 45 m (148 ft) jib raised
- 34.2 m (112 ft) maximum hook height with jib horizontal
Features

High performance, simplicity, reliability, and unmatched productivity
Offering multiple mast heights and jib lengths, the HDT 80 allows continuous operation whether you’re on a spacious job in the country or a highly congested site in the city. Along with its physical versatility, the HDT 80 features electrical operation, providing a quiet, clean lifting solution to customers who may be limited by noise and emissions regulations.

Variable height cab
The fully enclosed variable height cab provides better visibility and optimum efficiency on the jobsite by allowing the operator to place himself at the any height on the mast for the best vantage point for operation.

Remote control with indicators
The remote control with indicators, in combination with variable frequency drives for all main functions, allows the HDT 80 operator to easily maneuver the crane from within an approximate three-hundred foot radius.

Transport axle sets
Simplify road transport with Potain’s optional transport axle set SL122 / J215M. This trailer adjusts pneumatically and travels at speeds up to 80 km/h (50 mph). Other axle sets are available for on-site transportation.
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## Specifications

### Jib

31 m (102 ft) radius standard bi-folding offsettable lattice jib. Two (2) tie bar lines with adjustable lengths allow jib to be offset 30°. Two (2) erecting speeds controlled from the remote, opening and aligning are carried out automatically by hydraulic cylinders.

*Optional jib extension

9 m (30 ft) removable jib extension allows radius of 40 m (131 ft). Additional 5 m (16 ft) jib extension provides a maximum radius of 45 m (148 ft).

### Mast

Galvanized telescoping three (3) section mast provides three (3) possible operating heights (measured at jib feet): 13.6 m (45 ft), 22.9 m (75 ft), 32.2 m (106 ft) mast sections lock into position automatically.

### Chassis

Outriggers swing and are locked into position. 4.5 m (14.8 ft) square outrigger spread with 3.3 m (10.8 ft) slewing radius. Slewing radius with *cab is 3.7 m (12.1 ft). Level bubble integrated into the chassis. Outrigger pads are stowed on the crane during transport.

*Ballast

Ballast requirement for the crane consists of thirteen (13) slabs each weighing 2850 kg (6283 lb).

*Optional hydraulic ballasting derrick

Uses the hoisting winch to ballast the crane or dismantle/attach *fifth-wheel. Stows alongside the jib during transport.

### Electrical requirement

480 volt, 60 Hz measured at the turntable. Earth rod and electric cable stored on the crane during transport.

### Hoist

20 LVF 15: 20 HP variable frequency hoist with 1,5 t (1.7 USt) line pull. Three notch, progressive speed change according to the accelerating or decelerating ramps.

### Trolley

5 DVF 5: 6.5 HP variable frequency motor with 3 notches for progressive speed change according to acceleration or deceleration ramps controlled by the frequency converter.

### Controls

Wireless remote control provides information to the operator about **wind speed, radius, hook height, load, and moment. Lights and buzzers alert the operator when nearing limits of operation.

Auxiliary remote attached by umbilical cord ensures continual operation in case of battery or other malfunction of the wireless remote control.

### Swing

RVF+61 slewing mechanism with maximum swing speed of 0.8 RPM. Progressive control of speed with counter-slewing possible, anti-load swinging system makes aligning the load and jib easier.

### Hydraulic equipment

Hydraulic cylinders are used for raising the mast, unfolding the jib, and slewing the derrick. All actions are carried out by the remote control.

### Reeving

SM/DM block for 2 or 4-part line. One pin removal to change between SM and DM. Pure SM1 (section of hookblock removed) is possible with gain of 100 kg (220 lb) lifting capacity.

*Optional Anemometer

Electronic wind speed meter (anemometer) to alert the operator of wind speed conditions. Provides selective display on the radio remote. Crane can be operated with wind gusts up to 72 km/h (45 mph).

*Denotes optional equipment

**Requires optional anemometer

* STANDARD NORTH AMERICAN SPECIFICATION: Includes 45 m (148 ft) luffing jib, variable height cab, hydraulic ballasting derrick, high outrigger pads, wireless remote control, and Dialog Wind.

* Top Tracing

* Wind speed alarm

* Transport axles and kits

Consult price list for additional options.
NOTE: Dimensions and weights may vary due to manufacturing tolerances.
## Weights

### SL122 / J215M
80 km/h / 50 mph

### Chassis data (in transport position)

<table>
<thead>
<tr>
<th></th>
<th>DJ126M / S215M</th>
<th>SL121 / S215M</th>
<th>SL122 / J215M</th>
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</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>17.57 (57.6 ft)</td>
<td>16 (52.5 ft)</td>
<td>16 (52.5 ft)</td>
</tr>
<tr>
<td>Overall width</td>
<td>2.5 (8.2 ft)</td>
<td>2.5 (8.2 ft)</td>
<td>2.5 (8.2 ft)</td>
</tr>
<tr>
<td>Overhang</td>
<td>5.82 (19.1 ft)</td>
<td>5.82 (19.1 ft)</td>
<td>5.82 (19.1 ft)</td>
</tr>
</tbody>
</table>

### Weights

- **Crane weight less counterweight:** 23,400 kg / 51,587 lb
- **Crane weight for operation (13 slabs):** 37,050 kg / 81,680 lb
- **Crane with counterweight:** 60,450 kg / 133,267 lb

### Crane with transport equipment

<table>
<thead>
<tr>
<th></th>
<th>DJ126M / S215M</th>
<th>SL121 / S215M</th>
<th>SL122 / J215M</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25 km/h / 15.5 mph</td>
<td>25 km/h / 15.5 mph</td>
<td>80 km/h / 50 mph</td>
</tr>
<tr>
<td></td>
<td>(kilograms) / (pounds)</td>
<td>(kilograms) / (pounds)</td>
<td>(kilograms) / (pounds)</td>
</tr>
<tr>
<td><strong>Gross (P)</strong></td>
<td>26,950 / 59,414</td>
<td>26,400 / 58,201</td>
<td>26,300 / 57,981</td>
</tr>
<tr>
<td><strong>Rear (P1)</strong></td>
<td>18,210 / 40,146</td>
<td>18,300 / 40,344</td>
<td>18,200 / 40,124</td>
</tr>
<tr>
<td><strong>Front (P2)</strong></td>
<td>8740 / 19,268</td>
<td>8100 / 17,857</td>
<td>8100 / 17,857</td>
</tr>
</tbody>
</table>

*NOTE: Dimensions and weights may vary due to manufacturing tolerances.*
Dimensions
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.
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# Mechanisms

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<table>
<thead>
<tr>
<th></th>
<th>20 LVF 15</th>
<th></th>
<th>hp</th>
<th>kW</th>
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<tbody>
<tr>
<td></td>
<td>fpm</td>
<td>lb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>↓</td>
<td>13</td>
<td>6614</td>
<td>7</td>
<td>20</td>
</tr>
<tr>
<td>↓</td>
<td>85</td>
<td>6014</td>
<td>43</td>
<td>15</td>
</tr>
<tr>
<td>↓</td>
<td>138</td>
<td>3968</td>
<td>69</td>
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<td>3086</td>
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</tr>
<tr>
<td>↓</td>
<td>223</td>
<td>1543</td>
<td>112</td>
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<thead>
<tr>
<th></th>
<th>5 DVF 5</th>
<th></th>
<th>hp</th>
<th>kW</th>
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<tbody>
<tr>
<td></td>
<td>fpm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>↓</td>
<td>30 - 73</td>
<td>30 - 73</td>
<td>6.5</td>
<td>4.8</td>
</tr>
<tr>
<td>↓</td>
<td>191 (6614 lb)</td>
<td>145 (13,228 lb)</td>
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<table>
<thead>
<tr>
<th></th>
<th>RVF+61</th>
<th>rpm</th>
<th>hp</th>
<th>kW</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0 - 0.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8</td>
<td>5.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CEI 38</th>
<th>IEC 38</th>
</tr>
</thead>
<tbody>
<tr>
<td>480V (+6% -10%) 60 Hz</td>
<td>20 LVF 15: 43 A</td>
</tr>
</tbody>
</table>

- Hoisting
- Trolleying
- Slewing
- Traveling
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Metric load charts

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## Metric mechanisms

<table>
<thead>
<tr>
<th></th>
<th>m/min</th>
<th>kg</th>
<th>hp</th>
<th>kW</th>
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<tbody>
<tr>
<td>20 LVF 15</td>
<td>4</td>
<td>3000</td>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>3000</td>
<td>13</td>
<td></td>
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<td></td>
<td>42</td>
<td>1800</td>
<td>21</td>
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</tr>
<tr>
<td></td>
<td>52</td>
<td>1400</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td></td>
<td>68</td>
<td>700</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>5 DVF 5</td>
<td>m/min</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9 - 22</td>
<td>6000</td>
<td>6,5</td>
<td>4,8</td>
</tr>
<tr>
<td></td>
<td>58 (3000 kg)</td>
<td>3600</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9 - 22</td>
<td>2800</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>44 (6000 kg)</td>
<td>1400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RVF+6I</td>
<td>rpm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0,8</td>
<td>8</td>
<td>5,9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CEI 38</th>
<th>IEC 38</th>
<th>KVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>400V (+6% -10%) 50 Hz</td>
<td></td>
<td>20 LVF 15 : 35 kVA</td>
</tr>
</tbody>
</table>

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- Traveling

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Symbols glossary

- Jib
- Mast
- Anemometer
- Swing
- Outrigger
- Chassis
- Hydraulic equipment
- Controls
- Electrical requirement
- Ballast
- Transport axle
- Ballasting derrick
- Reeving
- Hoist
- Trolley
- Jib extension
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Shady Grove

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