Potain Igo 50
Product Guide

Features

- 4000 kg (8818 lb) maximum capacity
- 1100 kg (2425 lb) capacity at 131 ft (40 m)
- 40 m (131 ft) maximum operating hook radius
- 33.8 m (111 ft) maximum hook height with jib set at 20°
- 23.2 m (76 ft) maximum hook height with jib horizontal
Features

Variable frequency drives
Variable frequency drives provide a lower initial current rush and progressive speed change which can be supported by a smaller generator set than comparable cranes.

Efficiency and reliability
The Igo 50 has a simple and quick set up. While onsite, the crane works quietly, reducing interruption to the surrounding area.

Optional cab
Optional fixed height cab and access ladder allows operator to view the job site from a more advantageous position.

North American Highway Axle
Simplify road transport with the North American Highway Axle and adaptation kit 202. Multiple pin positions for optimal weight distribution, DOT compliance and an optional attachable 3rd axle make this an ideal solution for your transportation needs.
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications</td>
<td>4</td>
</tr>
<tr>
<td>Transport</td>
<td>5</td>
</tr>
<tr>
<td>Dimensions</td>
<td>7</td>
</tr>
<tr>
<td>Load charts</td>
<td>8</td>
</tr>
<tr>
<td>Crane profile</td>
<td>9</td>
</tr>
<tr>
<td>Mechanisms</td>
<td>10</td>
</tr>
<tr>
<td>Metric dimensions</td>
<td>11</td>
</tr>
<tr>
<td>Metric load charts</td>
<td>12</td>
</tr>
<tr>
<td>Metric crane profile</td>
<td>13</td>
</tr>
<tr>
<td>Metric mechanisms</td>
<td>14</td>
</tr>
<tr>
<td>Symbols glossary</td>
<td>15</td>
</tr>
</tbody>
</table>
Specifications

**Jib**

40 m (131 ft) radius standard bi-folding offsettable lattice jib. Removable jib extensions can allow additional horizontal jib operating radii of 28 m (92 ft) or 36 m (118 ft). Two (2) tie bar lines with adjustable lengths allow jib to be offset 8˚ and 20˚. Folds to 14 m (46 ft) radius or 29.6 m (97 ft) radius. Two (2) erecting speeds controlled from the remote, opening and aligning are carried out automatically by two (2) hydraulic cylinders.

**Mast**

Galvanized folding mast with hydraulic cylinder for erection. Two (2) erecting speeds controlled from the remote. No locking necessary. 360˚ rotation possible during erection.

**Chassis**

Outriggers swing and lock into position. 4.5 m (14.8 ft) square outrigger spread with 2.5 m (8.2 ft) slewing radius. Level bubble integrated into the chassis. Outrigger pads are stowed on the crane during transport (540 x 410 mm [21 in x 16 in]). *Optional outrigger pads available at heights of 200 mm (7.9 in) and 400 mm (15.7 in).

**Ballast**

5640 kg (12,434 lb) concrete ballast standard. Crane with standard ballast is able to be transported on several *axle sets.
*Additional 22 800 kg (50,268 lb) concrete ballast optional.

**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 stowed on the crane during transport.

**Reeving**

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

**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**

Electronic wind speed meter to alert the operator of wind speed conditions. Provides selective display on the radio remote. Maximum in service wind speed is 72 km/h (45 mph) and maximum out of service wind speed is 150 km/h (93 mph).

**Hoist**

15 LVF 10 Optima: 15 HP variable frequency hoist with 1t (1.1 US t) line pull. 3 notch, progressive speed change according to the accelerating or decelerating ramps. Optima allows the hoist to adapt its speed to the weight of the load.

**Trolley**

3 DVF 5: 3 HP variable frequency hoist with 500 kg (1102 lb) line pull. 2 notch winch, progressive speed change according to acceleration or deceleration ramps controlled by the frequency converter.

**Hydraulic equipment**

Four (4) cylinders and two (2) pumps linked to solenoid valves. Two (2) cylinders for unfolding the jib, one (1) for slewing the derrick, and one (1) for raising the mast.

**Optional transport axle sets**

Axle sets are available for both jobsite and highway applications. Jobsite axles are rated at either 10 kph (6 mph) or 25 kph (15.5 mph); highway axle set is rated at 80 kph (50 mph).

**Optional equipment**

* STANDARD NORTH AMERICAN SPECIFICATION: includes hydraulic ballasting derrick, high sole plates, Dialog Wind, 12 concrete counterweight slabs, pre-equipment for interference system and Top Zone.
* High sole plates
* Fixed height cab and access ladder
* Transport axles and kits
* Top Zone
* Top Tracing
* Dialog Wind

*Denotes optional equipment
**Requires optional anemometer
Transport

**DJ100 / S120**
10 km/h (6 mph)

**SL122 / J215M**
80 km/h (50 mph)

*NOTE: Dimensions and weights may vary due to manufacturing tolerances.*
Transport

North American Highway Axle

Chassis data (in transport position)

<table>
<thead>
<tr>
<th></th>
<th>DJ100/S120 (25 kph (15.5 mph))</th>
<th>SL122/J215M (80 kph (50 mph))</th>
<th>North American Highway Axle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>16.39 meters (53.8 feet)</td>
<td>15.41 meters (50.6 feet)</td>
<td>15.41 meters (50.6 feet)</td>
</tr>
<tr>
<td>Overall height</td>
<td>Max: 3.57 meters, Min: 3.42 meters (11.7 feet, 11.2 feet)</td>
<td>Max: 4 meters (13.1 feet)</td>
<td>4 meters (13.1 feet)</td>
</tr>
<tr>
<td>Overall width</td>
<td>2.5 meters (8.2 feet)</td>
<td>2.5 meters (8.2 feet)</td>
<td>2.6 meters (8.2 feet)</td>
</tr>
<tr>
<td>Overhang</td>
<td>5.87 meters (19.3 feet)</td>
<td>6.19 meters (20.3 feet)</td>
<td>TBA</td>
</tr>
</tbody>
</table>

Weights

- Crane weight less counterweight: 14 760 kg (32,540 lb)
- Counterweight for operation: 28 440 kg (62,700 lb)
- Crane with counterweight: 43 240 kg (95,328 lb)

Crane with transport equipment

<table>
<thead>
<tr>
<th></th>
<th>DJ100/S120 (25 kph (15.5 mph))</th>
<th>SL122/J215M (80 kph (50 mph))</th>
<th>North American Highway Axle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross (P)</td>
<td>21 655 kilograms (47,741 pounds)</td>
<td>23 650 kilograms (52,139 pounds)</td>
<td>TBA</td>
</tr>
<tr>
<td>Rear (P1)</td>
<td>11 725 kilograms (25,849 pounds)</td>
<td>15 400 kilograms (33,951 pounds)</td>
<td>TBA</td>
</tr>
<tr>
<td>Front (P2)</td>
<td>9930 kilograms (21,892 pounds)</td>
<td>8250 kilograms (18,188 pounds)</td>
<td>TBA</td>
</tr>
<tr>
<td>Counterweight in transport (2 blocks):</td>
<td>5640 kilograms (12,434 pounds)</td>
<td>5640 kilograms (12,434 pounds)</td>
<td>TBA</td>
</tr>
</tbody>
</table>

*Other axle sets are available.*

NOTE: Dimensions and weights may vary due to manufacturing tolerances.
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.
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.
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.
**Mechanisms**

---

**480 V - 60 Hz**

<table>
<thead>
<tr>
<th></th>
<th>15 LVF 10 Optima</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>HP</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft/min</td>
<td>lb</td>
<td>4409</td>
<td>4409</td>
<td>4409</td>
<td>2205</td>
<td>1102</td>
<td>8818</td>
<td>8818</td>
<td>8818</td>
</tr>
<tr>
<td>15</td>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ft/min</td>
<td>3 DVF 5</td>
<td>49 - 98 - 148 (0 – 2205 lb)</td>
<td>49 - 98 - 135 (2205 – 8818 lb)</td>
<td>3</td>
<td>2.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>rpm</td>
<td>RVF 51 Optima+</td>
<td>0 – 0.8</td>
<td>5.5</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**IEC 60204-32**

400 V (+10% -10%) 50 Hz / 480 V (+6% -10%) 60 Hz

- 17 kVA
- 19 kVA

---

**15 LVF 10 Optima**

---

**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.
Potain Igo 50

Metric 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.
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.
Igo 50: Raised jibs

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.
Metric mechanisms

<table>
<thead>
<tr>
<th>480 V - 60 Hz</th>
<th>m/min</th>
<th>kg</th>
<th>hp</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 LVF 10 Optima</td>
<td>3,6</td>
<td>2000</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>31</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>51</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>66,5</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,8</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15,5</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>25,5</td>
<td>2000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>33</td>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 DVF 5</td>
<td>m/min</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15 - 30 - 45 (0 → 1000 kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15 - 30 - 41 (1000 → 4000 kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RVF 51 Optima+</td>
<td>rpm</td>
<td>0 → 0,8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IEC 60204-32

| 400 V (+10% -10%) 50 Hz / 480 V (+6% -10%) 60 Hz | → 17 kVA | → 19 kVA |

15 LVF 10 Optima

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.
Symbols glossary

- Anemometer
- Hydraulic equipment
- Reactions in service
- Slewing
- Ballast
- Jib
- Reactions out of service
- Slewing radius
- Chassis
- Mast
- Reeving
- Standard equipment
- Consult us
- Optional hydraulic ballasting derrick
- Reeving 2-part
- Total ballast weight
- Controls
- Optional transport axle sets
- Reeving 4-part
- Trolleying
- Electrical equipment
- Options
- Required power
- Weight without load, without ballast, without transport axles, with max. jib and standard height
- Hoisting
Manitowoc Cranes

Regional headquarters

**Americas**
Manitowoc, Wisconsin, USA
Tel: +1 920 684 6621
Fax: +1 920 683 6277

Shady Grove, Pennsylvania, USA
Tel: +1 717 597 8121
Fax: +1 717 597 4062

**Europe, Middle East, Africa**
Dardilly, France
Tel: +33 (0)4 72 18 20 20
Fax: +33 (0)4 72 18 20 00

**China**
Shanghai, China
Tel: +86 21 6457 0066
Fax: +86 21 6457 4955

**Greater Asia-Pacific**
Singapore
Tel: +65 6264 1188
Fax: +65 6862 4040

Regional offices

**Americas**
Brazil
Alphaville
Mexico
Monterrey
Chile
Santiago

**Europe, Middle East, Africa**
France
Baudemont
Cergy
Decines
Germany
Langenfeld
Italy
Lainate
Netherlands
Breda
Poland
Warsaw
Portugal
Baltar
Russia
Moscow
South Africa
Johannesburg
U.A.E.
Dubai
U.K.
Buckingham

**Australia**
Brisbane
Melbourne
Sydney

**Greater Asia-Pacific**
India
Chennai
Delhi
Hyderabad
Pune
Korea
Seoul

**Factories**
Brazil
Passo Fundo
China
TaiAn
Zhangjiagang
France
Charlieu
Moulins
Germany
Wilhelmshaven
India
Pune
Italy
Niella Tanaro
Portugal
Baltar
Fânzeres
USA
Manitowoc
Port Washington
Shady Grove

This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.