Potain Igo T 85 A
Product Guide

Features

• 6000 kg (13,228 lb) maximum capacity
• 1400 kg (3086 lb) capacity at 45 m (148 ft)
• 45 m (148 ft) maximum operating hook radius
• 51 m (167 ft) maximum hook height with 45 m (148 ft) jib set at 30°
• 38 m (125 ft) maximum tip hook height with jib horizontal
• Variable height lattice mast from 20 m (66 ft) to 38 m (125 ft) with optional mast inserts
Features

**Mast inserts**
Increase your working height by up to 15 m (49 ft) with optional mast inserts. Each insert is 6 m (20 ft) and provides the operator with additional heights under hook.

**Cab**
The optional UltraView cab bolts onto the crane at a fixed height. Controls are integrated into the cab and operator’s seat provides ergonomic comforts from an aerial position.

**Optional hydraulic ballasting derrick**
The optional hydraulic ballasting derrick arm is removable and controlled by the radio remote control. This derrick can be adjusted to both radii of the Igo T 85 A as well as the radius of the Igo T 70 A.

**Remote control with indicators**
Standard wireless radio remote control with indicators and auxiliary control unit can be supplemented with an optional tethered joystick control unit with 30 m (98 ft) cable.

**North American Highway Axle**
Simplify road transport with the North American Highway Axle and adaptation kit 203. 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>Weights</td>
<td>6</td>
</tr>
<tr>
<td>Dimensions</td>
<td>7</td>
</tr>
<tr>
<td>Crane profile</td>
<td>8</td>
</tr>
<tr>
<td>Load charts</td>
<td>9</td>
</tr>
<tr>
<td>Mechanisms</td>
<td>10</td>
</tr>
<tr>
<td>Metric dimension</td>
<td>11</td>
</tr>
<tr>
<td>Metric crane profile</td>
<td>12</td>
</tr>
<tr>
<td>Metric load charts</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

45 m (148 ft) radius standard tri-folding offsettable lattice jib. Two (2) tie bar lines with adjustable lengths allow jib to be offset up to 30°. Opening and aligning are carried out automatically by three (3) hydraulic cylinders.

Mast

Telescoping lattice mast raised by one (1) hydraulic cylinder. Hook heights of 20 m (66 ft) and 23 m (75 ft) achievable with standard mast. 360° rotation possible during raising sequence.

*Optional mast inserts

Three (3) 6 m (20 ft) mast inserts available to reach a maximum horizontal hook height of 38 m (125 ft). Increasing mast height with one insert provides hook heights of 26 m (85 ft) and 29 m (95 ft); second mast insert provides hook heights of 32 m (105 ft) and 35 m (115 ft); third mast insert provides a hook height of 38 m (125 ft).

Chassis

Outrigger swing and lock into position. 4.5 m (14.8 ft) square outrigger spread with 3.3 m (10.8 ft) maximum turning radius. Outrigger pads are stowed on the crane during transport (600 mm x 600 mm [23.6 in x 23.6 in]).

*Ballast

Ballast requirement for the crane consists of, at minimum, fifteen (15) slabs each weighing 2200 kg (4850 lb). An additional slab is required if the cab or a mast insert(s) is used.

*Optional hydraulic ballasting derrick

Removable and able to be used on other Igo T 85 A and Igo T 70 A units, the hydraulic ballasting derrick uses the hoisting winch and is controlled by the remote control.

Electrical requirement

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

Reeving

SM/DM block for 2 (SM) or 4-part line (DM). Manual removal of one pin to change between SM and DM. Pure SM1 (section of hookblock removed) is possible with gain of 150 kg (331 lb) lifting capacity.

*Optional Anemometer

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).

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. Battery charger and extra battery are provided with crane.

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

Swing

RVF 151 Optima + slewing mechanism with maximum swing speed of 0.8 rpm. Progressive control of speed with counter-slewing possible, anti-load slewing system makes aligning the load and jib easier. Multiple rpm speeds possible depending upon parameter selected.

Hoist

20 LVF 15 Optima: 20 HP variable frequency hoist with 1.5 t (1.7 USt) 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

5 DVF 5: 5.5 HP variable frequency hoist with 500 kg (1102 lb) line pull. 3 notch winch, progressive speed change according to acceleration or deceleration ramps controlled by the frequency converter.

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.

*Optional transport axle sets

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

*Optional equipment

* STANDARD NORTH AMERICAN SPECIFICATION: includes offsettable jib, pre-equipment for interference system, Top Zone, 3 mast inserts and 17 counterweight slabs.
* Mast inserts 6 m (20 ft)
* Fixed height UltraView cab
* Access ladders
* Transport axles and kits
* Top Zone
* Top Tracing II
* 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.*
North American Highway Axle

Weights

Chassis data (in transport position)

<table>
<thead>
<tr>
<th></th>
<th>DJ100/S120 10 km/h (6 mph)</th>
<th>SL122/J215M 80 km/h (50 mph)</th>
<th>North American Highway Axle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>16,65 (54.6)</td>
<td>15,65 (51.3)</td>
<td>15,65 (51.3)</td>
</tr>
<tr>
<td>Overall height</td>
<td>3,7 (12.1)</td>
<td>4,0 (13.1)</td>
<td>4,0 (13.1)</td>
</tr>
<tr>
<td>Overall width</td>
<td>2,5 (8.2)</td>
<td>2,5 (8.2)</td>
<td>2,6 (8.5)</td>
</tr>
<tr>
<td>Overhang</td>
<td>5,2 (17.1)</td>
<td>5,8 (18.9)</td>
<td>TBA</td>
</tr>
</tbody>
</table>

Weights

<table>
<thead>
<tr>
<th></th>
<th>Crane weight less counterweight:</th>
<th>18,100 kg</th>
<th>39,904 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counterweight for operation:</td>
<td>33,000 kg</td>
<td>72,753 lb</td>
<td></td>
</tr>
<tr>
<td>Crane with counterweight:</td>
<td>51,100 kg</td>
<td>112,656 lb</td>
<td></td>
</tr>
</tbody>
</table>

Crane with transport equipment

<table>
<thead>
<tr>
<th></th>
<th>DJ100/S120 10 km/h (6 mph)</th>
<th>SL122/J215M 80 km/h (50 mph)</th>
<th>North American Highway Axle</th>
</tr>
</thead>
<tbody>
<tr>
<td>In transport with no counterweight:</td>
<td>kilograms</td>
<td>(pounds)</td>
<td>kilograms</td>
</tr>
<tr>
<td>Gross (P)</td>
<td>19,360</td>
<td>42,681</td>
<td>21,050</td>
</tr>
<tr>
<td>Rear (P1)</td>
<td>11,491</td>
<td>25,333</td>
<td>15,075</td>
</tr>
<tr>
<td>Front (P2)</td>
<td>7,869</td>
<td>17,869</td>
<td>5,975</td>
</tr>
</tbody>
</table>

*Other axle sets are available.

NOTE: Dimensions and weights may vary due to manufacturing tolerances.
THE 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.
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.
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 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.
Jib raised 30°
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.
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 (Q)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

China
Beijing
Chengdu
Guangzhou
Xian

Greater Asia-Pacific
Australia
Brisbane
Melbourne
Sydney
India
Chennai
Delhi
Hyderabad
Pune
Korea
Seoul
Philippines
Makati City
Singapore

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.