Potain Igo T 70 A

Product Guide

Features

• 4000 kg (8818 lb) maximum capacity
• 1450 kg (3197 lb) capacity at 40 m (131 ft)
• 40 m (131 ft) maximum operating hook radius
• 44.5 m (146 ft) maximum hook height with jib set at 30°
• 35 m (115 ft) maximum hook height with jib horizontal
• Variable height mast from 15 m (49 ft) to 35 m (115 ft) with optional mast inserts
Features

SmartCom technology
SmartCom is an embedded control system in CAN bus network which is based on a man to machine interface located in the control panel. This electronic system offers various functionalities which make putting the crane into service, as well as controlling the safety devices, faster and easier and makes crane maintenance easier than ever.

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
Two cab options are available for the Igo T 70 A: the Ultra View cab is equipped with integrated controls and provides maximum operator comforts; the Cab 800 provides operators with an areal view and offers basic comforts.

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.
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Specifications

**Jib**

40 m (131 ft) radius standard offsettable lattice jib. Jib can be offset to 30°. Opening and aligning are carried out automatically by three hydraulic cylinders.

**Mast**

Telescoping lattice mast is made vertical by one hydraulic cylinder. Hook heights of 15 m (49 ft), 17 m (56 ft), and 20 m (66 ft) achievable with standard mast. 360° rotation possible during raising sequence.

**Optional mast inserts**

Three 6 m (20 ft) mast inserts available to reach a maximum hook height of 35 m (115 ft). Increasing mast height with one insert provides hook heights of 23 m (75 ft) and 26 m (85 ft); second mast insert provides hook heights of 29 m (95 ft) and 32 m (105 ft); third mast insert provides hook height of 35 m (115 ft).

**Chassis**

Outriggers swing and lock into position. 4.5 m (14.8 ft) square outrigger spread with 2.7 m (8.9 ft) slewing 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, 15 slabs each weighing 2200 kg (4850 lb). An additional slab is required if cab is mounted as well as another if mast insert(s) is used. Maximum counterweight is permissible in all configurations except when forbidden, please consult the crane’s manual for details.

**Optional hydraulic ballasting derrick**

Removable and able to be used on other 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 stowed 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 hook block removed) is possible with gain of 100 kg (220 lb) lifting capacity.

**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.

**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 tethered cord ensures continual operation in case of battery or other malfunction of the wireless remote control.

**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).

**Swing**

RVF 151 Optima +: 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 with the jib easier. Multiple rpm speeds possible depending upon parameter selected.

**Hoist**

15 LVF 11 Optima: 15 hp variable frequency hoist with 1.1 t (1.2 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**

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

**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, three mast inserts, Top Zone and sixteen (16) slabs of counterweight.
- Mast inserts 6 m (20 ft)
- Fixed height cab (Ultra View or Cab 800)
- Access ladders
- Transport axles and kits
- Top Zone
- Top Tracing

Consult price list for additional options

*Denotes optional equipment
Transport

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

**DJ105 / S125**
25 km/h (16 mph)

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

North American Highway 2-Axle

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

Chassis data (in transport position)

<table>
<thead>
<tr>
<th></th>
<th>DJ100 / S120 10 km/h (6 mph)</th>
<th>DJ105 / S125 25 km/h (16 mph)</th>
<th>North American Highway 2-Axle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length</td>
<td>meters</td>
<td>(feet)</td>
<td>meters</td>
</tr>
<tr>
<td></td>
<td>14.96</td>
<td>49.1</td>
<td>14.96</td>
</tr>
<tr>
<td>Overall height</td>
<td>3.66</td>
<td>12.0</td>
<td>3.66</td>
</tr>
<tr>
<td>Overall width</td>
<td>2.5</td>
<td>8.2</td>
<td>2.5</td>
</tr>
<tr>
<td>Overhang</td>
<td>4.37</td>
<td>14.34</td>
<td>4.37</td>
</tr>
</tbody>
</table>

Weights

Crane weight less counterweight: 16 430 kg (36,222 lb)

Counterweight for operation (15 slabs): 33 000 kg (72,753 lb)

Crane with counterweight: 49 430 kg (108,975 lb)

Crane with transport equipment

<table>
<thead>
<tr>
<th></th>
<th>DJ100 / S120 10 km/h (6 mph)</th>
<th>DJ105 / S125 25 km/h (16 mph)</th>
<th>North American Highway 2-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>16 970</td>
<td>37,412</td>
<td>17 260</td>
</tr>
<tr>
<td>Rear (P1)</td>
<td>9540</td>
<td>21,032</td>
<td>9750</td>
</tr>
<tr>
<td>Front (P2)</td>
<td>7430</td>
<td>16,380</td>
<td>7510</td>
</tr>
</tbody>
</table>

*Other axle sets are available.*
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.

- 34.9 USt
- 33.7 USt
- 35,222 lb
- 77,600 lb
(16 x 4850 lb)
There are two possible profiles for the Igo T 70 A that are beneficial for erecting and dismantling on congested job sites.

Jib raised 30°
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Mechanisms

<table>
<thead>
<tr>
<th>131 ft</th>
<th>10</th>
<th>63</th>
<th>66</th>
<th>72</th>
<th>79</th>
<th>85</th>
<th>92</th>
<th>98</th>
<th>105</th>
<th>112</th>
<th>118</th>
<th>125</th>
<th>131</th>
<th>lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>115 ft</td>
<td>10</td>
<td>73</td>
<td>79</td>
<td>85</td>
<td>92</td>
<td>98</td>
<td>105</td>
<td>112</td>
<td>115</td>
<td>ft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 ft</td>
<td>10</td>
<td>83</td>
<td>85</td>
<td>92</td>
<td>98</td>
<td>100</td>
<td>ft</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>94 ft</td>
<td>10</td>
<td>88</td>
<td>92</td>
<td>94</td>
<td>ft</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>131 ft</th>
<th>115 ft</th>
<th>94 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>74</td>
<td>79</td>
</tr>
<tr>
<td>4850</td>
<td>4519</td>
<td>4079</td>
</tr>
</tbody>
</table>

### 480 V - 60 Hz

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>fpm</th>
<th>hp</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 LVF 11 Optima</td>
<td>11, 59, 98, 118, 223</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>3 DVF 5</td>
<td>49 - 98 - 135 (2866 → 8818 lb)</td>
<td>3</td>
<td>2.2</td>
</tr>
<tr>
<td>RVF 151 Optima+</td>
<td>0 → 0.8</td>
<td>5.5</td>
<td>4</td>
</tr>
</tbody>
</table>

### IEC 60204-32

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>480 V (+6% -10%) 60 Hz</td>
<td>17 kVA</td>
</tr>
</tbody>
</table>

### JEPOB

<table>
<thead>
<tr>
<th>fpm</th>
<th>223</th>
</tr>
</thead>
<tbody>
<tr>
<td>118</td>
<td>+25%</td>
</tr>
<tr>
<td>98</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>123</td>
</tr>
</tbody>
</table>
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Metric load charts
Metric mechanisms

**480 V - 60 Hz**

<table>
<thead>
<tr>
<th>15 LVF 11 Optima</th>
<th>m/min</th>
<th>hp</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg</td>
<td></td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>kg</td>
<td></td>
<td>18</td>
<td>13</td>
</tr>
<tr>
<td>kg</td>
<td></td>
<td>30</td>
<td>15</td>
</tr>
<tr>
<td>kg</td>
<td></td>
<td>36</td>
<td>18</td>
</tr>
<tr>
<td>kg</td>
<td></td>
<td>68</td>
<td>34</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3 DVF 5</th>
<th>m/min</th>
<th>hp</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 - 30</td>
<td>3</td>
<td>2.2</td>
</tr>
<tr>
<td></td>
<td>15 - 45</td>
<td>0</td>
<td>0.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RVF 151 Optima+</th>
<th>rpm</th>
<th>hp</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 - 0.8</td>
<td>5.5</td>
<td>4</td>
</tr>
</tbody>
</table>

**IEC 60204-32**

480 V (+6% -10%) 60 Hz

**kVA**

17 kVA

19 kVA

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