7650
Hydraulic Crawler Crane

Crawler Crane
Heavy-duty Boom
Max. Lifting Capacity: 650 metric ton x 6.0 m
Standard Boom
Max. Lifting Capacity: 400 metric ton x 10.0 m

Luffing Jib
Max. Lifting Capacity: 230 metric ton x 16.0 m
### Main Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Crane</th>
<th>Luffing Jib</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lifting Capacity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Lifting Capacity</td>
<td>650 x 6.0 (Heavy-duty)</td>
<td>230 x 16.0</td>
</tr>
<tr>
<td>(400 x 10.0 (Standard))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Boom Length (+Jib Length)</td>
<td>24 (Heavy) / 24 (Standard)</td>
<td>30 + 24</td>
</tr>
<tr>
<td>Max. Boom Length (+Jib Length)</td>
<td>80 (Heavy) / 102 (Standard)</td>
<td>70 + 72</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Performance</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Hoist Line Speed (High/Low)</td>
<td>100/44</td>
<td>100/44</td>
</tr>
<tr>
<td>Aux. Hoist Line Speed (High/Low)</td>
<td>100/44</td>
<td>100/44</td>
</tr>
<tr>
<td>Boom Hoisting/Lowering (High/Low)</td>
<td>50/22</td>
<td>50/22</td>
</tr>
<tr>
<td>Jib Hoisting/Lowering (High/Low)</td>
<td>100/44</td>
<td></td>
</tr>
<tr>
<td>Swing Speed</td>
<td>min⁻¹ (rpm)</td>
<td>0.6 (0.6)</td>
</tr>
<tr>
<td>Travel Speed (High/Low)</td>
<td>km/h</td>
<td>1.0/0.6</td>
</tr>
<tr>
<td>Gradability (Without Load)</td>
<td>%</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Operating Weight</strong></th>
<th>ton</th>
<th>Approx. 510 (including 24 m boom and 400-ton hook)</th>
<th>Approx. 540 (including 30 m boom and 230-ton hook)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Counterweight</strong></td>
<td>ton</td>
<td>Standard counterweight: 140</td>
<td>Additional counterweight: 84</td>
</tr>
</tbody>
</table>

| **Ground Pressure (Without Load)** | kPa (lbf/in²) | 125 (1.28) | 133 (1.36) |

### Style and Combination of Boom and Jib

<table>
<thead>
<tr>
<th>STYLE</th>
<th>Crawler Crane</th>
<th>Luffing Jib</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Heavy-Duty Boom</td>
<td>Std. Boom</td>
</tr>
<tr>
<td><strong>SPECIFICATIONS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Lifting Capacity</td>
<td>650 ton x 6.0 m</td>
<td>400 ton x 10.0 m</td>
</tr>
<tr>
<td>Max. Total Length (Boom + Jib)</td>
<td>60 m</td>
<td>102 m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>COUNTERWEIGHTS</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Std. Counterweight (140 ton)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Add. Counterweight (84 ton)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### BASIC BOOM

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>12.0 m Lower Boom</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10.5 m Std. Insert Tapered Boom</td>
<td>---</td>
<td>0</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>10.5 m Heavy-Duty Insert Tapered Boom</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Std. Upper Boom</td>
<td></td>
<td>---</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Heavy-Duty Upper Boom</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

### INSERT BOOM

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0 m Insert Boom</td>
<td></td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>12.0 m Insert Boom</td>
<td></td>
<td>3</td>
<td>6</td>
<td>4</td>
</tr>
</tbody>
</table>

### LUFFING JIB

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>24.0 m Basic Jib</td>
<td></td>
<td>---</td>
<td>---</td>
<td>0</td>
</tr>
<tr>
<td>12.0 m Insert Jib</td>
<td></td>
<td>---</td>
<td>---</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: number of Boom and Jib as shown means the numbers for the maximum length respectively.

### General Dimensions

![Diagram of crane specifications](image)

Unit: mm

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**Remarks:**

1. Line speed figures are shown at 1st layer of each drum.
2. The main hoist, auxiliary hoist, boom hoist, jib hoist and travel speeds vary according to the load being lifted.
Boom Liftin g Capacities

**Notes:**

1. Operating radius is the horizontal distance from the centerline of rotation to a vertical line through the centerline of gravity of load.
2. Rated load do not exceed 19% of tipping load on the load horizon tal ground and includes weight of hook block, slings and all other load handling accesso ries from main boom or jib rating shown.
3. Rated loads included in the chart are the maximum allowable fully suspended loads at the given boom length, boom angle and radius, and have been determined for the machine standing level on firm supporting surfaces under ideal operating conditions. The user must limit or dis- able loads to allow for adverse conditions (such as soft or uneven ground, out-of-level ground con ditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperienced personnel, material illitas, and traveling with a load).
4. Areas on rated crane load table where no rating are shown, opera tion is not intended or approved.
5. The loads be lifted actually is obtained by deducting the weight of hook block, slings and all other load handling accesso ries from the rated crane load.
6. For arrangements of the boom, jib and guy lines and roveels of the boom hoist rope, strictly observe the instruction of the operator’s manual.

### WORKING RANGES

#### Hook block capacity and weight (metric ton)

<table>
<thead>
<tr>
<th>Capacity of hook</th>
<th>Weight (metric ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>650 ton</td>
<td>12.0</td>
</tr>
<tr>
<td>400 ton</td>
<td>9.1</td>
</tr>
<tr>
<td>250 ton</td>
<td>7.9</td>
</tr>
<tr>
<td>100 ton</td>
<td>4.3</td>
</tr>
<tr>
<td>50 ton</td>
<td>2.3</td>
</tr>
<tr>
<td>16.5 ton ball hook</td>
<td>0.8</td>
</tr>
</tbody>
</table>

#### Max. hoisting load per part of line

**Single drum**

<table>
<thead>
<tr>
<th>No. of parts of line</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of parts (metric)</td>
<td>4</td>
<td>7</td>
<td>8</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Max. load (metric)</td>
<td>16.5</td>
<td>33.7</td>
<td>50.0</td>
<td>66.0</td>
<td>81.7</td>
</tr>
<tr>
<td>Max. load (metric)</td>
<td>19.4</td>
<td>25.7</td>
<td>31.0</td>
<td>36.0</td>
<td>41.6</td>
</tr>
<tr>
<td>No. of parts of line</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Max. load (metric)</td>
<td>169.4</td>
<td>193.0</td>
<td>196.3</td>
<td>209.4</td>
<td>222.2</td>
</tr>
<tr>
<td>Max. load (metric)</td>
<td>230.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Double drum**

<table>
<thead>
<tr>
<th>No. of parts of line</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of parts (metric)</td>
<td>25.3</td>
<td>31.0</td>
<td>36.0</td>
<td>41.6</td>
<td></td>
</tr>
<tr>
<td>Max. load (metric)</td>
<td>499.5</td>
<td>518.3</td>
<td>565.1</td>
<td>610.0</td>
<td>650.0</td>
</tr>
</tbody>
</table>

### Boom rated loads in metric tons for 360° working area

#### Standard boom/with Standard Counterweight

<table>
<thead>
<tr>
<th>Boom length (m)</th>
<th>54</th>
<th>66</th>
<th>72</th>
<th>78</th>
<th>90 (91)</th>
<th>102 (105)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating radius (m)</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>9</td>
<td>392</td>
<td>341</td>
<td>321</td>
<td>307</td>
<td>286</td>
<td>265</td>
</tr>
<tr>
<td>10</td>
<td>352</td>
<td>302</td>
<td>289</td>
<td>278</td>
<td>260</td>
<td>242</td>
</tr>
<tr>
<td>11</td>
<td>312</td>
<td>267</td>
<td>257</td>
<td>242</td>
<td>228</td>
<td>212</td>
</tr>
<tr>
<td>12</td>
<td>272</td>
<td>228</td>
<td>218</td>
<td>206</td>
<td>192</td>
<td>178</td>
</tr>
<tr>
<td>13</td>
<td>232</td>
<td>189</td>
<td>179</td>
<td>168</td>
<td>155</td>
<td>142</td>
</tr>
<tr>
<td>14</td>
<td>192</td>
<td>149</td>
<td>139</td>
<td>128</td>
<td>117</td>
<td>105</td>
</tr>
<tr>
<td>15</td>
<td>152</td>
<td>111</td>
<td>101</td>
<td>93</td>
<td>85</td>
<td>77</td>
</tr>
<tr>
<td>16</td>
<td>112</td>
<td>75</td>
<td>67</td>
<td>60</td>
<td>54</td>
<td>48</td>
</tr>
</tbody>
</table>

#### Standard boom/with Standard Counterweight + Additional Counterweight

<table>
<thead>
<tr>
<th>Boom length (m)</th>
<th>54</th>
<th>66</th>
<th>72</th>
<th>78</th>
<th>90 (91)</th>
<th>102 (105)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating radius (m)</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>9</td>
<td>363</td>
<td>317</td>
<td>291</td>
<td>264</td>
<td>232</td>
<td>204</td>
</tr>
<tr>
<td>10</td>
<td>332</td>
<td>284</td>
<td>259</td>
<td>233</td>
<td>206</td>
<td>180</td>
</tr>
<tr>
<td>11</td>
<td>302</td>
<td>255</td>
<td>229</td>
<td>205</td>
<td>180</td>
<td>156</td>
</tr>
<tr>
<td>12</td>
<td>272</td>
<td>227</td>
<td>201</td>
<td>178</td>
<td>155</td>
<td>133</td>
</tr>
<tr>
<td>13</td>
<td>242</td>
<td>201</td>
<td>178</td>
<td>155</td>
<td>133</td>
<td>113</td>
</tr>
<tr>
<td>14</td>
<td>212</td>
<td>172</td>
<td>149</td>
<td>127</td>
<td>108</td>
<td>91</td>
</tr>
<tr>
<td>15</td>
<td>182</td>
<td>144</td>
<td>124</td>
<td>106</td>
<td>90</td>
<td>75</td>
</tr>
<tr>
<td>16</td>
<td>152</td>
<td>120</td>
<td>103</td>
<td>88</td>
<td>75</td>
<td>63</td>
</tr>
<tr>
<td>17</td>
<td>122</td>
<td>95</td>
<td>80</td>
<td>67</td>
<td>57</td>
<td>49</td>
</tr>
<tr>
<td>18</td>
<td>92</td>
<td>70</td>
<td>59</td>
<td>50</td>
<td>43</td>
<td>37</td>
</tr>
<tr>
<td>19</td>
<td>62</td>
<td>45</td>
<td>37</td>
<td>31</td>
<td>26</td>
<td>22</td>
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<tr>
<td>20</td>
<td>32</td>
<td>24</td>
<td>20</td>
<td>17</td>
<td>15</td>
<td>13</td>
</tr>
</tbody>
</table>

For loads shown above the bold line, double drum must be used.
Main Boom Lifting Capacities

<table>
<thead>
<tr>
<th>Boom length (m)</th>
<th>Operating radius (m)</th>
<th>Unit: metric ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 (79)</td>
<td>6 550</td>
<td>6</td>
</tr>
<tr>
<td>30 (98)</td>
<td>574</td>
<td>7</td>
</tr>
<tr>
<td>36 (118)</td>
<td>521</td>
<td>8</td>
</tr>
<tr>
<td>42 (138)</td>
<td>447</td>
<td>9</td>
</tr>
<tr>
<td>48 (157)</td>
<td>402</td>
<td>10</td>
</tr>
<tr>
<td>54 (177)</td>
<td>328</td>
<td>11</td>
</tr>
<tr>
<td>60 (197)</td>
<td>276</td>
<td>12</td>
</tr>
<tr>
<td>72 (247)</td>
<td>168</td>
<td>14</td>
</tr>
<tr>
<td>90 (300)</td>
<td>104/38.5</td>
<td>16</td>
</tr>
<tr>
<td>120/53.7</td>
<td>95</td>
<td>18</td>
</tr>
<tr>
<td>180/54</td>
<td>68/35.9</td>
<td>20</td>
</tr>
<tr>
<td>240/54</td>
<td>41/40.3</td>
<td>22</td>
</tr>
</tbody>
</table>

For loads shown above the bold line, double drums must be used.

Luffing Jib Lifting Capacities

<table>
<thead>
<tr>
<th>Boom length (m)</th>
<th>Operating radius (m)</th>
<th>Unit: metric ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 (79)</td>
<td>6 550</td>
<td>6</td>
</tr>
<tr>
<td>30 (98)</td>
<td>574</td>
<td>7</td>
</tr>
<tr>
<td>36 (118)</td>
<td>521</td>
<td>8</td>
</tr>
<tr>
<td>42 (138)</td>
<td>447</td>
<td>9</td>
</tr>
<tr>
<td>48 (157)</td>
<td>402</td>
<td>10</td>
</tr>
<tr>
<td>54 (177)</td>
<td>328</td>
<td>11</td>
</tr>
<tr>
<td>60 (197)</td>
<td>276</td>
<td>12</td>
</tr>
<tr>
<td>72 (247)</td>
<td>168</td>
<td>14</td>
</tr>
<tr>
<td>90 (300)</td>
<td>104/38.5</td>
<td>16</td>
</tr>
<tr>
<td>120/53.7</td>
<td>95</td>
<td>18</td>
</tr>
<tr>
<td>180/54</td>
<td>68/35.9</td>
<td>20</td>
</tr>
<tr>
<td>240/54</td>
<td>41/40.3</td>
<td>22</td>
</tr>
</tbody>
</table>

For loads shown above the bold line, double drums must be used.

Notes:
1. Operating radius is the horizontal distance from the centerline of a rotation to a vertical line through the centerline of gravity of load.
2. Rated load do not exceed 75% of tipping load on the hard horizontal ground and includes weight of hook block, slings, and all other load handling accessories from main boom or jib rating shown.
3. Rated loads included in the charts are the maximum allowable freely suspended loads at the given boom length, boom angle and radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions.
4. Areas on rated crane load table where no rating are shown, operation is not intended or approved.
5. The loads can be lifted actually is obtained by deducting the weight of hook block, slings and all other load handling accessories from the rated crane load.
6. For jib operations, the main boom should be set at an angle of 80°, 79° or 69°, and the jib raised between 20° and 75°.
7. For main boom operations with a jib attached, the jib should be set at an angle of 15°, 25° or 35°, and the main boom raised between 30° and 94°.
8. For arrangements of the boom, jib and guy lines and rewinds of the boom hoist rope, strictly observe the instruction of the operator's manual.
9. An auxiliary sheave may be fitted to configurations from 30m boom + 24m jib to 76m boom + 70m jib.
10. Rated loads for the auxiliary sheave are determined by deducting the weight of the auxiliary sheave (800kg) and jib hook from the ratings for the lifting jib. They must not exceed a maximum of 15.5 tons.
11. Actual hoistable loads using an auxiliary sheave are determined by deducting the weight of the 16.5 ton ball hook and the lifting gear, such as slings and cables, from the ratings.
12. Rated loads for lifting jib equipped with an auxiliary sheave are determined by deducting the weight of the auxiliary sheave from the ratings for the lifting jib with no auxiliary sheave. Additionally, when using a lifting jib with a 16.5 ton ball hook, the weight of the hook and lifting gear, such as slings and cables, must be deducted.
13. Actual hoistable loads for lifting jib equipped with an auxiliary sheave are adjusted for the weight of the auxiliary sheave, hook and lifting gear, such as slings and cables, from ratings for the lifting jib equipped with an auxiliary sheave.
15. The maximum working radius of this machine when using an auxiliary sheave must not exceed the maximum working radius of the main boom.
16. The boom should be principle be erected over the front of the cranes, and for main booms exceeding 72m in length pilow plats must be used under the cranes.
17. Rated loads for the main boom when equipped with a lifting jib are not provided.
### Luffing Jib Lifting Capacities

#### Luffing jib rated loads in metric tons for 360° working area

**Luffing jib with 30 m boom**/with standard counterweight

<table>
<thead>
<tr>
<th>Operating radius (m)</th>
<th>24 m Jib</th>
<th>30 m Jib</th>
<th>36 m Jib</th>
<th>42 m Jib</th>
<th>48 m Jib</th>
</tr>
</thead>
<tbody>
<tr>
<td>80°</td>
<td>78°</td>
<td>68°</td>
<td>80°</td>
<td>78°</td>
<td>68°</td>
</tr>
<tr>
<td>8</td>
<td>230.0</td>
<td>230.0</td>
<td>179.3</td>
<td>196.0</td>
<td>193.1</td>
</tr>
<tr>
<td>16</td>
<td>230.0</td>
<td>230.0</td>
<td>179.3</td>
<td>196.0</td>
<td>193.1</td>
</tr>
<tr>
<td>24</td>
<td>230.0</td>
<td>230.0</td>
<td>179.3</td>
<td>196.0</td>
<td>193.1</td>
</tr>
<tr>
<td>32</td>
<td>230.0</td>
<td>230.0</td>
<td>179.3</td>
<td>196.0</td>
<td>193.1</td>
</tr>
</tbody>
</table>

#### Luffing jib rated loads in metric tons for 360° working area

**Luffing jib with 36 m boom**/with standard counterweight

<table>
<thead>
<tr>
<th>Operating radius (m)</th>
<th>24 m Jib</th>
<th>30 m Jib</th>
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**Units:** metric ton
# Luffing Jib Lifting Capacities

## Luffing jib rated loads in metric tons for 360° working area

### Luffing jib with 42 m boom/with standard counterweight + additional counterweight

<table>
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<tr>
<th>Operating radius (m)</th>
<th>30 m Jib</th>
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<th>42 m Jib</th>
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<td>Boom Angle</td>
<td>Boom Angle</td>
<td>Boom Angle</td>
<td>Boom Angle</td>
<td>Boom Angle</td>
</tr>
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## Luffing jib rated loads in metric tons for 360° working area

### Luffing jib with 48 m boom/with standard counterweight + additional counterweight

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### Luffing Jib Lifting Capacities

**Luffing jib rated loads in metric tons for 360° working area**
Luffing jib with 54 m boom/with standard counterweight + additional counterweight

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- **Unit:** metric ton

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### Luffing Jib Lifting Capacities

**Luffing jib rated loads in metric tons for 360° working area**
Luffing jib with 60 m boom/with standard counterweight + additional counterweight

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- **Unit:** metric ton

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### Luffing Jib Lifting Capacities

**Luffing jib rated loads in metric tons for 360° working area**
Luffing jib with 54 m boom/with standard counterweight + additional counterweight

<table>
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<tr>
<th>Operating radius (m)</th>
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<th>72 m Jib</th>
<th>Operating radius (m)</th>
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<td>22</td>
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- **Unit:** metric ton

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### Luffing Jib Lifting Capacities

**Luffing jib rated loads in metric tons for 360° working area**
Luffing jib with 60 m boom/with standard counterweight + additional counterweight

<table>
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<tr>
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<th>72 m Jib</th>
<th>Operating radius (m)</th>
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- **Unit:** metric ton
### Luffing Jib Lifting Capacities

#### Luffing jib rated loads in metric tons for 360° working area

**Luffing jib with 66 m boom with standard counterweight + additional counterweight**

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<td>60 m Jib</td>
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#### Luffing jib rated loads in metric tons for 360° working area

**Luffing jib with 72 m boom with standard counterweight + additional counterweight**

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# Luffing Jib Lifting Capacities

## Luffing jib rated loads in metric tons for 360° working area

Luffing jib with 78 m boom/with standard counterweight + additional counterweight

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## Weight and Measurement for Transportation

### Base Machine
- **Upper Frame**
  - Weight: 33.8 ton x 1

### Center Frame
- **Winch**
  - Dimension: 2,780 x 1,730 x ø 1,400
  - Weight: 5.6 ton x 2

- **No. 2 Hoisting Winch**
  - Dimension: 2,710 x 1,730 x ø 1,400
  - Weight: 8.2 ton x 1

### No. 1 Hoisting Winch
- Weight: 10.8 ton x 1

### Cab
- Weight: 3.0 ton x 1

### Gantry Spreader
- Weight: 21.2 ton x 1

### Carbody
- Weight: 27.7 ton x 1

**REMARKS:** The above procedure is based on the purchase of the optional items as mentioned. Those optional items are recommended to purchase for shortening the disassembling time to transport.
NOTE: Due to our policy of continual product improvement, all design and specifications are subject to change without advance notice. Data herein is informational in nature and shall not be construed to warrant suitability of the machine for any particular purpose as performance may vary with the conditions encountered. These statements are correct at time of going to press.