Hydraulic Crawler Crane

BMS1200HD

Model: BMS1200HD

Max. Lifting Capacity: **120 t x 5 m**
Max. Crane Boom Length: **61.0 m**
## BMS1200HD CONTENTS

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**Power Plant**

**Model:** MTU 12V2000  
**Type:** 4 cycle, water-cooled, 12 cylinders in 90° V design, direct injection, turbo-charger, intercooler.  
**Displacement:** 23,880 liters  
**Rated power:** 634 kW / 1,800 min⁻¹  
**Max. Torque:** 3,750 N·m / 1,500 min⁻¹  
**Cooling System:** Water-cooled  
**Starter:** 24 V - 9 kw  
**Radiator:** Corrugated type core, thermostatically controlled  
**Air cleaner:** Dry type with replaceable paper element  
**Throttle:** Twist grip type hand throttle, electrically actuated  
**Fuel filter:** Heavy duty with spin off type cartridge.  
**Batteries:** Two 12 V x 160 Ah capacity batteries, series connected  
**Fuel tank capacity:** 900 liters  

**Hydraulic System**

**Main pumps:** 4 variable displacement piston pumps  
**Control:** Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.  
**Cooling:** Oil-to-air heat exchanger (plate-fin type)  
**Filtration:** Full-flow and bypass type with replaceable element  
**Max. relief valve pressure:**  
- Load hoist, boom hoist and propel system: 32 Mpa  
- Swing system: 28 MPA  
- Control system: 5.4 MPA  
**Hydraulic Tank Capacity:** 1,000 liters  

**Boom Hoisting System**

Powered by a hydraulic motor through a planetary reducer.  
**Brake:** A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.  
**Drum Lock:** External ratchet for locking drum  
**Drum:** Single drum, grooved for 20 mm dia. wire rope  
**Line Speed:** Single line on first drum layer  
- Hoisting/Lowering: 48 to 2 m/min  
- Boom hoisting/lowering: 20 mm x 190 m  
- Boom guy line: 30 mm  
- Boom backstops: Required for all boom length  

**Load Hoisting System**

Front and rear drums for load hoist powered by two hydraulic variable plunger motors, driven through planetary reducers.  
**Positive & Negative Brake:** Forced-circulation oil-cooled wet-type multi-disc brake, each using positive and negative actuation.

The drums are manually locked by the control cable. Both positive and negative brake systems are available in lever neutral position.  
**Drum Lock:** External ratchet for locking drum  
**Drums:**  
- **Front Drums:** 864 mm P.C.D x 799 mm Lg., grooved for 36 mm wire rope. Rope capacity is 245 m working length and 460 m storage length.  
- **Rear Drum:** 864 mm P.C.D x 799 mm grooved for 36 mm wire rope. Rope capacity is 175 m working length and 460 m storage length.  
**Diameter of wire rope**  
- Main winch: 36 mm x 245 m  
- Aux. winch: 36 mm x 175 m  
- Third winch: 30 mm x 210 m  
**Line Speed***:  
- Hoisting/lowering: 110 to 3 m/min  
**Line Pull:**  
- Max. Line Pull*: 314 kN (32.0 tf)  
  (Referential Performance)  
- Rated Line Pull: 157 kN (16.0 tf)  
*Single line on first drum layer

**Swing System**

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers, the swing system provides 360° rotation.  
**Swing parking brakes:** A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.  
**Swing circle:** Single-row ball bearing with an integral internally cut swing gear.  
**Swing lock:** Manually, four position lock for transportation  
**Swing Speed:** 2.1 min⁻¹

**Upper Structure**

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine will with low noise level.  
**Counterweight:** 32.5 ton

**Cab & Control**

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a headrest and armrests, and intermittent wiper and window washer (skylight and front window).  
**Cab fittings:**  
- Air conditioner, convenient compartment (for tool), cup holder, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, and shoe tray
Lower Structure

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

**Crawler drive:** Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

**Crawler brakes:** Spring-set, hydraulically released parking brakes are built into each propel drive.

**Steering mechanism:** A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

**Track rollers:** Sealed track rollers for maintenance-free operation.

**Shoe (flat):** 1,070 mm wide each crawler

**Max. gradeability:** 30 %

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**Main Specifications (Model: BMS1200HD)**

<table>
<thead>
<tr>
<th>Crane Boom</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Lifting Capacity</td>
<td>120 t x 5.0 m</td>
</tr>
<tr>
<td>Max. Length</td>
<td>61.0 m</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Main &amp; Aux. Winch</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Line Speed (1st layer)</td>
<td>110 m/min</td>
</tr>
<tr>
<td>Rated Line Pull (Single line)</td>
<td>157 kN (16.0 tf)</td>
</tr>
<tr>
<td>Wire Rope Diameter</td>
<td>36 mm</td>
</tr>
<tr>
<td>Wire Rope Length</td>
<td>245 m (Main), 175 m (Aux.)</td>
</tr>
<tr>
<td>Brake Type (free fall)</td>
<td>Wet-type multiple disc brake (Standard)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Working Speed</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Swing Speed</td>
<td>2.1 min⁻¹ (rpm)</td>
</tr>
<tr>
<td>Travel Speed</td>
<td>1.2/0.8 km/h</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Plant</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Model</td>
<td>MTU 12V2000</td>
</tr>
<tr>
<td>Engine Output</td>
<td>634 kW / 1,800 min⁻¹</td>
</tr>
<tr>
<td>Fuel Tank</td>
<td>900 liters</td>
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</table>

<table>
<thead>
<tr>
<th>Hydraulic System</th>
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<tbody>
<tr>
<td>Main Pumps</td>
<td>4 variable displacement</td>
</tr>
<tr>
<td>Max. Pressure</td>
<td>32 MPa (326 kgf/cm²)</td>
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<tr>
<td>Hydraulic Tank Capacity</td>
<td>1,000 liters</td>
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<table>
<thead>
<tr>
<th>Self-Removal Device</th>
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<tr>
<td>Brake Type (free fall)</td>
<td>Wet-type multiple disc brake (Standard)</td>
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<table>
<thead>
<tr>
<th>Weight</th>
<th></th>
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<tbody>
<tr>
<td>Operating Weight</td>
<td>116 t *1</td>
</tr>
<tr>
<td>Ground Pressure</td>
<td>79 kPa</td>
</tr>
<tr>
<td>Counterweight</td>
<td>32,500 kg</td>
</tr>
<tr>
<td>Transport Weight</td>
<td>46,900 kg **</td>
</tr>
</tbody>
</table>

**Units are SI units. ( ) indicates conventional units.**

**Line speeds in table are for light loads. Line speed varies with load.**

*1 Including upper and lower machine, 32.5 ton counterweight, basic boom, hook, and other accessories.

** Base machine with gantry, wire rope (front/rear/boom hoist), without crawler, auxiliary platform and duct.

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**Weight**

Including upper and lower machine, 32.5 ton counterweight, basic boom, hook, and other accessories.

**Weight:** 116 ton

**Ground pressure:** 79 kPa

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**Attachment**

**Boom & Jib:**

Welded lattice construction using tubular, high-tensile steel chords with pin connection between sections.

<table>
<thead>
<tr>
<th>Boom length</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Length</td>
<td>Max. Length</td>
</tr>
<tr>
<td>Crane Boom</td>
<td>18.3 m</td>
</tr>
</tbody>
</table>
This catalog may contain photographs of machines with specifications, attachments and optional equipment.

Limit of Hook Lifting

<table>
<thead>
<tr>
<th>Hook</th>
<th>L</th>
<th>L’</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 t hook</td>
<td>4.7 m</td>
<td></td>
</tr>
<tr>
<td>70 t hook</td>
<td>4.7 m</td>
<td></td>
</tr>
<tr>
<td>50 t hook</td>
<td>4.5 m</td>
<td></td>
</tr>
<tr>
<td>Ball hook</td>
<td></td>
<td>4.2 m</td>
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</tbody>
</table>
## Crane Boom Arrangements

<table>
<thead>
<tr>
<th>Boom length m (ft)</th>
<th>Boom arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.3 (60)</td>
<td><img src="image1" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>21.3 (70)</td>
<td><img src="image2" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>24.4 (80)</td>
<td><img src="image3" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>27.4 (90)</td>
<td><img src="image4" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>30.5 (100)</td>
<td><img src="image5" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>33.5 (110)</td>
<td><img src="image6" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>36.6 (120)</td>
<td><img src="image7" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>39.6 (130)</td>
<td><img src="image8" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>42.7 (140)</td>
<td><img src="image9" alt="Boom Arrangement" /></td>
</tr>
</tbody>
</table>

### Boom Arrangement Legend
- **A**: 3.0
- **B**: 6.1
- **C**: 9.1
- **D**: T

### Boom Arrangement Examples

<table>
<thead>
<tr>
<th>Boom length m (ft)</th>
<th>Boom arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>45.7 (150)</td>
<td><img src="image10" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>48.8 (160)</td>
<td><img src="image11" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>51.8 (170)</td>
<td><img src="image12" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>54.9 (180)</td>
<td><img src="image13" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>57.9 (190)</td>
<td><img src="image14" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>61.0 (200)</td>
<td><img src="image15" alt="Boom Arrangement" /></td>
</tr>
</tbody>
</table>

### Kind of Boom Insert

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3.0 m</td>
</tr>
<tr>
<td>B</td>
<td>6.1 m</td>
</tr>
<tr>
<td>T</td>
<td>9.1 m</td>
</tr>
</tbody>
</table>

※ mark shows the standard boom arrangement which enables each boom length of less than that boom length to be configured.
Crane Boom

Working Ranges

Unit: m

61.0 m Boom
57.9 m Boom
54.9 m Boom
51.8 m Boom
48.8 m Boom
45.7 m Boom
42.7 m Boom
39.6 m Boom
36.6 m Boom
33.5 m Boom
30.5 m Boom
27.4 m Boom
24.4 m Boom
21.3 m Boom
18.3 m Boom

Center of rotation

Radius from center of rotation (m)

Height above ground (m)
• Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.

• Deduct weight of hook block(s), slings and all other load handling accessories from main boom ratings shown.

• Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.

• Ratings are for operation on a firm and level surface, up to 1% gradient.

• At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.

• Boom inserts and guy lines must be arranged as shown in the "operator's manual".

• Boom hoist reeving is 12 part line.

• Gantry must be in raised position for all conditions.

• Boom backstops are required for all boom lengths.

• The boom should be erected over the front of the crawlers, not laterally.

• The minimum rated load is 1.5 (ton).

(Main boom)

• The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

(Main boom with auxiliary sheave frame)

• The total load that can be lifted is the value for weight of main hook block, slings, and all other load handling accessories deducted from main boom with auxiliary sheave ratings shown.

(Auxiliary sheave)

• The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from auxiliary sheave ratings shown.

• Boom lengths for auxiliary sheave mounting are 18.3m to 54.9m.

### Main hoist loads (Main 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>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Loads (kN)</td>
<td>157</td>
<td>294</td>
<td>441</td>
<td>588</td>
<td>735</td>
<td>883</td>
</tr>
<tr>
<td>Maximum Loads (t)</td>
<td>16.0</td>
<td>30.0</td>
<td>45.0</td>
<td>60.0</td>
<td>75.0</td>
<td>90.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. of Parts of Line</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Loads (kN)</td>
<td>1,030</td>
<td>1,177</td>
</tr>
<tr>
<td>Maximum Loads (t)</td>
<td>105.0</td>
<td>120.0</td>
</tr>
</tbody>
</table>

### Auxiliary hoist loads

<table>
<thead>
<tr>
<th>No. of Parts of Line</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Loads (kN)</td>
<td>157</td>
<td>294</td>
</tr>
<tr>
<td>Maximum Loads (t)</td>
<td>16.0</td>
<td>30.0</td>
</tr>
</tbody>
</table>

### Main hoist loads (Third 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>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Loads (kN)</td>
<td>132</td>
<td>265</td>
<td>397</td>
<td>530</td>
<td>662</td>
<td>794</td>
</tr>
<tr>
<td>Maximum Loads (t)</td>
<td>13.5</td>
<td>27.0</td>
<td>40.5</td>
<td>54.0</td>
<td>67.5</td>
<td>81.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. of Parts of Line</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Loads (kN)</td>
<td>927</td>
<td>981</td>
</tr>
<tr>
<td>Maximum Loads (t)</td>
<td>94.5</td>
<td>100.0</td>
</tr>
</tbody>
</table>

### Weight of hook block

<table>
<thead>
<tr>
<th>Hook Block</th>
<th>120 t</th>
<th>70 t / 50 t</th>
<th>16 t</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (t)</td>
<td>1.6</td>
<td>1.2</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.
### Crane Boom Lifting Capacities

**Counterweight: 32.5 t**  
**Unit: metric ton**

<table>
<thead>
<tr>
<th>Working radius (m)</th>
<th>Boom length (m)</th>
<th>18.3</th>
<th>21.3</th>
<th>24.4</th>
<th>27.4</th>
<th>30.5</th>
<th>33.5</th>
<th>36.6</th>
<th>39.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>120.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.5</td>
<td>100.0</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td>91.6</td>
<td>91.5</td>
<td>91.4</td>
<td>6.5m/84.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.0</td>
<td>78.2</td>
<td>78.0</td>
<td>77.9</td>
<td>77.8</td>
<td>7.1m/76.5</td>
<td>7.6m/68.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.0</td>
<td>62.9</td>
<td>62.7</td>
<td>62.6</td>
<td>62.5</td>
<td>62.3</td>
<td>62.2</td>
<td>8.1m/60.9</td>
<td>8.6m/55.2</td>
<td>8.0</td>
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<tr>
<td>9.0</td>
<td>52.5</td>
<td>52.2</td>
<td>52.1</td>
<td>52.0</td>
<td>51.8</td>
<td>51.7</td>
<td>51.6</td>
<td>51.5</td>
<td>9.0</td>
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<td>43.9</td>
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<td>12.0</td>
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<td>34.4</td>
<td>34.3</td>
<td>34.1</td>
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<td>33.8</td>
<td>33.7</td>
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<td>14.0</td>
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<td>27.5</td>
<td>27.3</td>
<td>27.2</td>
<td>27.1</td>
<td>27.0</td>
<td>14.0</td>
</tr>
<tr>
<td>16.0</td>
<td>23.3</td>
<td>23.2</td>
<td>23.0</td>
<td>22.9</td>
<td>22.6</td>
<td>22.5</td>
<td>22.4</td>
<td>22.3</td>
<td>16.0</td>
</tr>
<tr>
<td>18.0</td>
<td>17.4m/19.0</td>
<td>19.8</td>
<td>19.5</td>
<td>19.5</td>
<td>19.2</td>
<td>19.1</td>
<td>19.0</td>
<td>18.9</td>
<td>18.0</td>
</tr>
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<td>20.0</td>
<td>16.2</td>
<td>17.0</td>
<td>16.9</td>
<td>16.6</td>
<td>16.5</td>
<td>16.3</td>
<td>16.2</td>
<td>16.0</td>
<td>20.0</td>
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<td>22.0</td>
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**Reeves** 8 7 7 6 6 5 5 4

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Note:  
Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.  
The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories reduced from main boom ratings shown.  
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.  
Please refer rated chart in operator's cabin.
### Crane Boom Lifting Capacities (Third Drum)

#### Counterweight: 32.5 t

<table>
<thead>
<tr>
<th>Working radius (m)</th>
<th>Boom length (m)</th>
<th>18.3</th>
<th>21.3</th>
<th>24.4</th>
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#### Reeves

- 8
- 7
- 7
- 6
- 5
- 5

### Note:

- Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
- The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories reduced from main boom ratings shown.
- Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
- Please refer rated chart in operator’s cabin.
• Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.

• Deduct weight of bucket, slings and all other load handling accessories from main boom ratings shown.

• Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.

• Rated loads do not exceed 66% of minimum tipping loads.

• Ratings are for operation on a firm and level surface, up to 1% gradient.

• At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.

• Boom inserts and guy lines must be arranged as shown in the "operator's manual".

• Boom hoist reeving is 12 part line.

• Gantry must be in raised position for all conditions.

• Boom backstops are required for all boom lengths.

• The boom should be erected over the front of the crawlers, not laterally.

(Clamshell bucket lifting)

• The total load that can be lifted is the value for weight of bucket, slings, and all other load handling accessories deducted from main boom ratings shown.

• The weight of bucket and materials must not exceed rated load.

• Optimum bucket should be required according to material. Bucket capacity (m³) x specified gravity of material (ton/m³) + bucket weight (Ton) = rated load.

• Bucket weight must also be decreased according to operating cycle and Bucket lowering height.

• Rated loads are determined by stability and boom strength. During simultaneous operations of boom and swing, rapid acceleration or deceleration must be avoided.

• Do not attempt to cast the bucket while swinging or diagonal draw-cutting.

### Main hoist loads

<table>
<thead>
<tr>
<th>No. of Parts of Line</th>
<th>Maximum Loads (kN)</th>
<th>Maximum Loads (t)</th>
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</thead>
<tbody>
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### Assembling the counterweight

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<th>Counterweights</th>
<th>32.5 ton counterweight</th>
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Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.
### Main Boom Rated Loads For Clamshell

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<th>Working radius (m)</th>
<th>Boom length (m)</th>
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<th>21.3</th>
<th>24.4</th>
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<td>16.0</td>
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<td>9.7</td>
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<th>1</th>
<th>1</th>
<th>1</th>
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</table>

Note: Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc. The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories reduced from main boom ratings shown. Lifting capacities may vary depending on hook used or with/without auxiliary sheave. Please refer rated chart in operator's cabin.

**LIFTING CAPACITIES**

Counterweight: 32.5 t

Unit: metric ton
• Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.

• Deduct weight of hook block(s), slings and all other load handling accessories from main boom ratings shown.

• Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.

• Ratings are for operation on a firm and level surface, up to 1% gradient.

• At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.

• Boom inserts and guy lines must be arranged as shown in the “operator’s manual”.

• Boom hoist reeving is 12 part line.

• Gantry must be in raised position for all conditions.

• Boom backstops are required for all boom lengths.

• The boom should be erected over the front of the crawlers, not laterally.

(Main boom)

• The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

(Main boom with auxiliary sheave frame)

• The total load that can be lifted is the value for weight of main hook block, slings, and all other load handling accessories deducted from main boom with auxiliary sheave ratings shown.

(Auxiliary sheave)

• The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from auxiliary sheave ratings shown.

### Main hoist loads (Third Drum)

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<thead>
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<th>No. of Parts of Line</th>
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<td>397</td>
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### Auxiliary hoist loads (For Bucket)

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<tr>
<td>Maximum Loads (t)</td>
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<table>
<thead>
<tr>
<th>Weight of hook block</th>
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<td>Hook Block</td>
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<tr>
<td>Weight (t)</td>
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Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.
# Bucket Rating Charts Auxiliary Sheave Lifting Capacities

(with Aux. Sheave, 16t Aux. Hook Blocks, without Main Hook Block)

<table>
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<tr>
<th>Load radius (m)</th>
<th>18.3</th>
<th>21.3</th>
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<th>27.4</th>
<th>30.5</th>
<th>33.5</th>
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<tr>
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</tbody>
</table>

Reeves: 1+1

Note:
Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories reduced from main boom ratings shown.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.
Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.

Deduct weight of hook block(s), slings and all other load handling accessories from main boom ratings shown.

Condition of barge stability this rating chart were determined under the condition below. The stability of barge shall meet below condition. During operation the machinery static inclination against horizontal level.

(A) Both sides (right & left) of machine
   Maximum inclination shall be within 1.5 Degrees

(B) Front & backward of machine
   Maximum inclination shall be within 3.0 Degrees

Working area shall be inshore and smooth water.

Applicable regulations for structure japanese construction codes for mobil crane
※ Regulation of class of shipping (abs, lloyd, bv, nk, etc) are not adapted.

At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.

Boom inserts and guy lines must be arranged as shown in the "operator's manual".

Boom hoist reeving is 12 part line.

Gantry must be in raised position for all conditions.

Boom backstops are required for all boom lengths.

The boom should be erected over the front of the crawlers, not laterally.

Ratings inside of boxes are limited by strength of materials.

The minimum rated load is 2.0 (ton).

The machinery should be fastened to the deck of the barge to prevent tip over and sliding.

Towing area
Towing area shall be within coastal area and quiet wave condition. Offshore and open sea is not considered for this machinery. Depend on the height of wave, counterweight shall be reduced during towing.

(Crane boom)

The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

<Reference Information>

Main hoist loads

<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>Maximum Loads (kN)</td>
<td>157</td>
<td>294</td>
<td>441</td>
<td>588</td>
<td>686</td>
</tr>
<tr>
<td>Maximum Loads (t)</td>
<td>16.0</td>
<td>30.0</td>
<td>45.0</td>
<td>60.0</td>
<td>70.0</td>
</tr>
</tbody>
</table>

Auxiliary hoist loads

<table>
<thead>
<tr>
<th>No. of Parts of Line</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Loads (kN)</td>
<td>157</td>
<td>294</td>
</tr>
<tr>
<td>Maximum Loads (t)</td>
<td>16.0</td>
<td>30.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight of hook block</th>
<th>Hook Block</th>
<th>70 t</th>
<th>50 t</th>
<th>Ball Hook</th>
</tr>
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<tbody>
<tr>
<td>Weight (t)</td>
<td>1.2</td>
<td>1.2</td>
<td>0.45</td>
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</tr>
</tbody>
</table>

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.
### Barge Rating Chart

#### Crane Boom Lifting Capacities

<table>
<thead>
<tr>
<th>Load Radius (m)</th>
<th>18.3</th>
<th>21.3</th>
<th>24.4</th>
<th>27.4</th>
<th>30.5</th>
<th>33.5</th>
<th>36.6</th>
<th>39.6</th>
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</thead>
<tbody>
<tr>
<td>6.0</td>
<td>70.0</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td>6.0</td>
</tr>
<tr>
<td>7.0</td>
<td>60.0</td>
<td>59.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.0</td>
</tr>
<tr>
<td>8.0</td>
<td>50.0</td>
<td>49.8</td>
<td>49.6</td>
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<td></td>
<td></td>
<td>8.0</td>
</tr>
<tr>
<td>9.0</td>
<td>42.8</td>
<td>42.6</td>
<td>42.4</td>
<td>42.2</td>
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<td></td>
<td></td>
<td>9.0</td>
</tr>
<tr>
<td>10.0</td>
<td>37.0</td>
<td>36.8</td>
<td>36.6</td>
<td>36.5</td>
<td>36.3</td>
<td>36.2</td>
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<td>10.0</td>
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<tr>
<td>12.0</td>
<td>28.6</td>
<td>28.4</td>
<td>28.2</td>
<td>28.0</td>
<td>27.8</td>
<td>27.7</td>
<td>27.6</td>
<td>27.5</td>
</tr>
<tr>
<td>14.0</td>
<td>23.3</td>
<td>23.1</td>
<td>23.0</td>
<td>22.9</td>
<td>22.7</td>
<td>22.6</td>
<td>22.5</td>
<td>22.4</td>
</tr>
<tr>
<td>16.0</td>
<td>19.5</td>
<td>19.3</td>
<td>19.2</td>
<td>19.1</td>
<td>18.8</td>
<td>18.7</td>
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<tr>
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<td>16.4</td>
<td>16.3</td>
<td>16.0</td>
<td>15.9</td>
<td>15.8</td>
<td>15.7</td>
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<tr>
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<tr>
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<td>12.1</td>
<td>12.0</td>
<td>11.9</td>
<td>11.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24.0</td>
<td>10.5</td>
<td>10.4</td>
<td>10.3</td>
<td>10.2</td>
<td>10.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26.0</td>
<td>9.6</td>
<td>9.5</td>
<td>9.4</td>
<td>9.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28.0</td>
<td>8.6</td>
<td>8.4</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30.0</td>
<td>7.8</td>
<td>7.6</td>
<td>7.5</td>
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<td>6.8</td>
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<td>34.0</td>
<td>6.2</td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Unit:** metric tons

Note:
- Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
- The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories reduced from main boom ratings shown.
- Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
- Please refer rated chart in operator's cabin.
<table>
<thead>
<tr>
<th>Name</th>
<th>Dimension (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Machine</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Gantry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Crawler</td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Wire rope (Front / boom hoist)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="Base Machine Diagram" /></td>
<td><img src="image" alt="Base Machine Diagram" /></td>
</tr>
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</tr>
<tr>
<td>· Wire rope (Front / rear / boom hoist)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Without crawler</td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Without auxiliary platform</td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Without duct</td>
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<td>· Without gantry</td>
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<tr>
<td>· Without duct</td>
<td></td>
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<tr>
<td></td>
<td><img src="image" alt="Base Machine Diagram" /></td>
<td><img src="image" alt="Base Machine Diagram" /></td>
</tr>
<tr>
<td><strong>Crawler</strong></td>
<td></td>
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</tr>
<tr>
<td></td>
<td><img src="image" alt="Crawler Diagram" /></td>
<td><img src="image" alt="Crawler Diagram" /></td>
</tr>
</tbody>
</table>
**Base Machine**
Gantry, Crawler, Wire rope (Front / boom hoist),
Weight: 74,100 kg  Width: 6,320 mm

**Crawler**
Weight: 13,600 kg

**Gantry (with lower spreader)**
Weight: 2,500 kg

---

**Counterweight No. 1**
Weight: 12,500 kg

**Counterweight No. 2**
Weight: 10,000 kg

**Counterweight No. 3**
Weight: 10,000 kg

---

**Boom Top**
Weight: 2,840 kg

**Boom Top with aux. sheave**
Weight: 4,130 kg

---

**Boom Base**
Weight: 2,450 kg

**3.0 m (10 ft) Boom Insert**
Weight: 500 kg

**6.1 m (20 ft) Boom Insert**
Weight: 810 kg
9.1 m (30 ft) Boom Insert
Weight: 1,130 kg

Crane Backstop
Weight: 330 kg

Auxiliary Sheave
Weight: 940 kg

Boom Hoist Upper Spreader
Weight: 480 kg

16 t Ball Hook
Weight: 460 kg

50 t Hook
Weight: 1,200 kg

120 t Hook
Weight: 1,550 kg

70 t Hook
Weight: 1,200 kg

50 t Hook
Weight: 1,200 kg
Hydraulic Crawler Crane

Model: BMS1200HD

17-1, Higashigotanda 2-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN

Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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