HEAVY DUTY BASE MACHINE FOR FOUNDATION WORK

BM800 HD

Model: BM800HD-2F

Max. Lifting Capacity: 80 t x 3.7 m
Max. Crane Boom Length: 54.9 m
**CONFIGURATION**

**Crane Boom**
- Max. Lifting Capacity: 80 metric ton x 3.7 m
- Max. Boom Length: 54.9 m

**Clamshell**
- Max. Lifting Capacity: 10.0 metric ton x 16.0 m
- Max. Boom Length: 24.4 m
Hammer Grab

Boom Length: 21.3 m
Lifting Capacity at 7.0 m: 36.1 ton
*Recommended Specification for Casing Diameter: 2,000 mm
SPECIFICATIONS

**Power Plant**

**Model:** Hino diesel engine P11C-UN  
**Type:** Water-cooled, direct fuel injection, with turbocharger  
Compiles with NRMM (Europe) stage IIIA and US EPA Tier III  
**Displacement:** 10.520 liters  
**Rated Power:** 247 kW at 2,000 min⁻¹ (rpm) (ISO)  
**Max. torque:** 1,300 N•m/1,500 min⁻¹  
**Cooling system:** Liquid, recirculating bypass  
**Starter:** 24 V/6.0 kW  
**Radiator:** Corrugated type core, thermostatically controlled  
**Air cleaner:** Dry type with replaceable paper element  
**Throttle:** Electric throttle control, twist grip type  
**Fuel filter:** Replaceable paper element  
**Batteries:** Two 12V, 136 Ah/5HR capacity batteries, series connected.  
**Fuel tank capacity:** 400 liters

**Hydraulic System**

Three variable displacement piston pumps are driven by heavy-duty pump drive. Two of variable displacement pumps are used in the main hook hoist circuit, boom hoist circuit, auxiliary hook hoist circuit and each propel circuit. The other is used in the swing circuit.  
**Control:** Full-flow hydraulic control system for infinitely variable pressure to front and rear drums, boom hoist brakes and clutches. 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  
**Electrical system:** All wiring corded for easy servicing, individual fused branch circuits.  
**Max. relief valve pressure:**  
  **Load hoist, boom hoist and propel system:** 31.9 MPa (325 kgf/cm²)  
  **Swing system:** 27.5 MPa (280 kgf/cm²)  
  **Control system:** 7.0 MPa (71 kgf/cm²)  
**Reservoir capacity:** 440 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 18 mm dia. wire rope  
**Line speed:** Single line on first drum layer  
  **Hoisting, Lowering:** 70 to 2 m/min

**Load Hoist System**

Front and rear drums for load hoist powered by a 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 drum:** 614 mm P.C.D. x 617 mm Lg. wide drum, grooved for 26 mm wire rope. Rope capacity is 170 m working length and 242 m storage length.  
  **Rear drum:** 614 mm P.C.D. x 617 mm Lg. wide drum, grooved for 26 mm wire rope. Rope capacity is 125 m working length and 242 m storage length.  
  **Note:** Rope lengths listed above denote drum capacity and may differ from actual rope lengths supplied when machinery is shipped.  
**Line speed:** Single line on the first drum layer  
  **Hoisting, Lowering:** 120 to 3 m/min  
**Line Pull (Single-line):**  
  **Rated line pull:** 108 kN (11 tf)  
  **Max. line pull:** 208 kN (21.2 tf) (1st layer)  
  **Note:** Max. line pull is theoretical values under certain test condition.

**Swing System**

Swing unit is powered by hydraulic motor driving spur gear through planetary reducer, 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, two position lock for transportation  
**Swing speed:** 4.0 min⁻¹ (rpm)

**Upper Structure**

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level.  
**Counterweight:** 25.8 ton
Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a head-rest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:
Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray

Controls:
Four adjustable levers for front drum, rear drum, boom drum and swing controls.

Lower Structure

Steel-welded carbody with axles. Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation. 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.

Shoes (flat): 63 shoes, 800 mm wide each crawler
Max. travel speed: 1.5/1.0 km/h
Max. gradeability: 30%

Weight

Including upper and lower machine, 25.8 ton counterweight, basic boom, hook, and other accessories.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane boom</td>
<td>Approx. 75 ton, 82 kPa (0.84 kgf/cm²)</td>
<td></td>
</tr>
</tbody>
</table>

Boom

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

<table>
<thead>
<tr>
<th>Boom Length</th>
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<tbody>
<tr>
<td>Basic Boom</td>
</tr>
<tr>
<td>Max. Boom</td>
</tr>
<tr>
<td>12.2 m</td>
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<tr>
<td>54.9 m</td>
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</table>

Main Specifications (Model: BM800HD-2F)

<table>
<thead>
<tr>
<th>Crane Boom</th>
<th>Max. Lifting Capacity</th>
<th>80 t/3.7 m</th>
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</thead>
<tbody>
<tr>
<td>Max. Length</td>
<td>54.9 m</td>
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<table>
<thead>
<tr>
<th>Main &amp; Aux. Winch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Line Speed</td>
</tr>
<tr>
<td>Rated Line Pull (Single-line)</td>
</tr>
<tr>
<td>Max. line pull (Single-line)***</td>
</tr>
</tbody>
</table>

| Wire Rope Diameter             | 26 mm                  |
| Wire Rope Length               | 170 m (Main) 125 m (Aux.) |

<table>
<thead>
<tr>
<th>Brake Type</th>
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<tbody>
<tr>
<td>Forced-circulation oil-cooled wet-type multi-disc brake (Positive &amp; Negative)</td>
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<table>
<thead>
<tr>
<th>Working Speed</th>
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<tbody>
<tr>
<td>Swing Speed</td>
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<tr>
<td>Travel Speed</td>
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<table>
<thead>
<tr>
<th>Power Plant</th>
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<tbody>
<tr>
<td>Model</td>
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<tr>
<td>Engine Output</td>
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<tr>
<td>Fuel Tank Capacity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Specifications</th>
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</thead>
<tbody>
<tr>
<td>Hydraulic System</td>
</tr>
<tr>
<td>Main Pumps</td>
</tr>
<tr>
<td>Max. Pressure</td>
</tr>
<tr>
<td>Hydraulic Tank Capacity</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Weight</th>
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<tbody>
<tr>
<td>Operating Weight*</td>
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<tr>
<td>Ground Pressure*</td>
</tr>
<tr>
<td>Counterweight</td>
</tr>
<tr>
<td>Transport Weight**</td>
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</tbody>
</table>

Units are SI units. { } indicates conventional units.
* Including upper and lower machine, 25.8 ton counterweight, basic boom, hook and other accessories.
** Base machine with gantry, crawlers, wire ropes for main and boom hoist winches and lower spreader (Refer to notes P13).
*** Max. line pull is theoretical values under certain test condition.
Crane Boom

Limit of Hook Lifting

<table>
<thead>
<tr>
<th>Hook</th>
<th>L</th>
<th>L'</th>
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<tbody>
<tr>
<td>80 t hook</td>
<td>3.8 m</td>
<td></td>
</tr>
<tr>
<td>50 t hook</td>
<td>3.6 m</td>
<td></td>
</tr>
<tr>
<td>32 t hook</td>
<td>3.5 m</td>
<td></td>
</tr>
<tr>
<td>11 t ball hook</td>
<td></td>
<td>4.1 m</td>
</tr>
</tbody>
</table>
### BOOM ARRANGEMENTS

<table>
<thead>
<tr>
<th>Boom length m (ft)</th>
<th>Boom arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.2 (40)</td>
<td><img src="image1" alt="Diagram" /></td>
</tr>
<tr>
<td>15.2 (50)</td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
<tr>
<td>18.3 (60)</td>
<td><img src="image3" alt="Diagram" /></td>
</tr>
<tr>
<td>21.3 (70)</td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
<tr>
<td>24.4 (80)</td>
<td><img src="image5" alt="Diagram" /></td>
</tr>
<tr>
<td>27.4 (90)</td>
<td><img src="image6" alt="Diagram" /></td>
</tr>
<tr>
<td>30.5 (100)</td>
<td><img src="image7" alt="Diagram" /></td>
</tr>
<tr>
<td>33.5 (110)</td>
<td><img src="image8" alt="Diagram" /></td>
</tr>
<tr>
<td>36.6 (120)</td>
<td><img src="image9" alt="Diagram" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boom length m (ft)</th>
<th>Boom arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.6 (130)</td>
<td><img src="image10" alt="Diagram" /></td>
</tr>
<tr>
<td>42.7 (140)</td>
<td><img src="image11" alt="Diagram" /></td>
</tr>
<tr>
<td>45.7 (150)</td>
<td><img src="image12" alt="Diagram" /></td>
</tr>
<tr>
<td>48.8 (160)</td>
<td><img src="image13" alt="Diagram" /></td>
</tr>
<tr>
<td>51.8 (170)</td>
<td><img src="image14" alt="Diagram" /></td>
</tr>
<tr>
<td>54.9 (180)</td>
<td><img src="image15" alt="Diagram" /></td>
</tr>
</tbody>
</table>

- **Symbol**
- **Boom Length**
- **Remarks**

#### Remarks

- **Booster Core**
- **Booster Upper**
- **Insert Boom**
- **Insert Boom with Lug**

*– Mark shows the standard boom arrangement which enables each boom length of less than that boom length to be configured.

Note: A 6.1 m insert boom with lug is required when assembling a boom length of 39.6 m or over without using an auxiliary crane.
A range of hook blocks can be specified, each with a safety latch.

<table>
<thead>
<tr>
<th>Hooks</th>
<th>Weight (kg)</th>
<th>No. of sheaves</th>
<th>No. of lines and max. rated loads (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>80-ton</td>
<td>950</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>50-ton</td>
<td>700</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>32-ton</td>
<td>550</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>11-ton ball hook</td>
<td>300</td>
<td>0</td>
<td>11.0</td>
</tr>
</tbody>
</table>

Symbols for Attachments:

- ![Crane Boom](image1)
- ![Auxiliary Sheave for Crane Boom](image2)
Crane Boom Working Ranges

NOTES:
1. Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
2. Ratings in metric tons for 360˚ working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories are included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. 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. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 12 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Crawler frames must be fully extended for all crane operations.
13. Ratings shown in [ ] are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Crane boom ratings: Deduct weight of main hook block, slings, and all other load handling accessories from crane boom ratings shown.
16. Auxiliary sheave ratings for crane boom: Deduct weight of ball hook, slings, and all other load handling accessories from auxiliary sheave ratings for crane boom shown.
17. Crane boom lengths for auxiliary sheave mounting are 12.2 m to 51.8 m.
## Crane Boom Lifting Capacity

### Unit: metric ton

<table>
<thead>
<tr>
<th>Crane Type</th>
<th>Crane Boom Length (m)</th>
<th>Working Radius (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9</strong></td>
<td>3.7</td>
<td>11.8m/15.9</td>
</tr>
<tr>
<td></td>
<td>4.0</td>
<td>4.8m/64.2</td>
</tr>
<tr>
<td></td>
<td>5.0</td>
<td>3.3m/35.2</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>6.9m/75.5</td>
</tr>
<tr>
<td></td>
<td>7.0</td>
<td>8.6m/86.2</td>
</tr>
<tr>
<td></td>
<td>8.0</td>
<td>5.3m/51.2</td>
</tr>
<tr>
<td></td>
<td>9.0</td>
<td>7.0m/62.2</td>
</tr>
<tr>
<td></td>
<td>10.0</td>
<td>8.7m/73.2</td>
</tr>
<tr>
<td></td>
<td>11.0</td>
<td>10.4m/84.2</td>
</tr>
<tr>
<td></td>
<td>12.0</td>
<td>12.1m/95.3</td>
</tr>
<tr>
<td></td>
<td>13.0</td>
<td>13.7m/106.2</td>
</tr>
<tr>
<td></td>
<td>14.0</td>
<td>15.3m/117.3</td>
</tr>
<tr>
<td></td>
<td>15.0</td>
<td>16.9m/128.5</td>
</tr>
<tr>
<td></td>
<td>16.0</td>
<td>18.5m/139.6</td>
</tr>
<tr>
<td></td>
<td>17.0</td>
<td>20.1m/150.7</td>
</tr>
<tr>
<td></td>
<td>18.0</td>
<td>21.7m/161.8</td>
</tr>
<tr>
<td></td>
<td>19.0</td>
<td>23.3m/172.9</td>
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<tr>
<td></td>
<td>20.0</td>
<td>25.0m/183.1</td>
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<tr>
<td></td>
<td>21.0</td>
<td>26.7m/194.2</td>
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<tr>
<td></td>
<td>22.0</td>
<td>28.4m/205.3</td>
</tr>
<tr>
<td></td>
<td>23.0</td>
<td>30.1m/216.5</td>
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<tr>
<td></td>
<td>24.0</td>
<td>31.7m/227.7</td>
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<td>25.0</td>
<td>33.4m/238.9</td>
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<tr>
<td></td>
<td>26.0</td>
<td>35.1m/249.1</td>
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<tr>
<td></td>
<td>27.0</td>
<td>36.8m/260.3</td>
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<tr>
<td></td>
<td>28.0</td>
<td>38.5m/271.5</td>
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<tr>
<td></td>
<td>29.0</td>
<td>40.2m/282.7</td>
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<tr>
<td></td>
<td>30.0</td>
<td>41.9m/293.9</td>
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<tr>
<td></td>
<td>31.0</td>
<td>43.6m/305.1</td>
</tr>
<tr>
<td></td>
<td>32.0</td>
<td>45.3m/316.3</td>
</tr>
<tr>
<td></td>
<td>33.0</td>
<td>47.0m/327.5</td>
</tr>
<tr>
<td></td>
<td>34.0</td>
<td>48.7m/338.7</td>
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<tr>
<td></td>
<td>35.0</td>
<td>50.4m/349.9</td>
</tr>
<tr>
<td></td>
<td>36.0</td>
<td>52.1m/361.1</td>
</tr>
<tr>
<td></td>
<td>37.0</td>
<td>53.8m/372.3</td>
</tr>
<tr>
<td></td>
<td>38.0</td>
<td>55.5m/383.5</td>
</tr>
<tr>
<td></td>
<td>39.0</td>
<td>57.2m/394.7</td>
</tr>
<tr>
<td></td>
<td>40.0</td>
<td>58.9m/405.9</td>
</tr>
<tr>
<td></td>
<td>41.0</td>
<td>60.6m/417.1</td>
</tr>
<tr>
<td></td>
<td>42.0</td>
<td>62.3m/428.3</td>
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<tr>
<td></td>
<td>43.0</td>
<td>64.0m/439.5</td>
</tr>
<tr>
<td></td>
<td>44.0</td>
<td>65.7m/450.7</td>
</tr>
<tr>
<td></td>
<td>45.0</td>
<td>67.4m/461.9</td>
</tr>
<tr>
<td></td>
<td>46.0</td>
<td>69.1m/473.1</td>
</tr>
</tbody>
</table>

### Note:

Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.

Ratings shown in [ ] are determined by the strength of the boom or other structural components.

Refer to notes P8.
## Auxiliary Sheave Lifting Capacity for Crane Boom
(With 32 t Main Hook)

<table>
<thead>
<tr>
<th>Boom Length (m)</th>
<th>Working radius (m)</th>
<th>10.0</th>
<th>12.0</th>
<th>14.0</th>
<th>16.0</th>
<th>18.0</th>
<th>20.0</th>
<th>22.0</th>
<th>24.0</th>
<th>26.0</th>
<th>28.0</th>
<th>30.0</th>
<th>32.0</th>
<th>34.0</th>
<th>36.0</th>
<th>38.0</th>
<th>40.0</th>
<th>42.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.0</td>
<td>10.5m/11.0</td>
<td>11.0</td>
<td>11.0</td>
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**Note:** Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc. Refer to notes P8.
### Crane Boom Lifting Capacity (With Optional Third Winch)

**Unit: metric ton**

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**Counterweight: 25.8 t**

**Note:**
- Applicable notes are fundamentally the same as those for notes p8.
- Please follow the data in the table below for number of lines for use with hooks. Failure to follow this data may result in the boom rising and tipping backwards during hook hoisting.

### No. of lines and max. rated loads

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<th>Hooks</th>
<th>Weight (kg)</th>
<th>No. of sheaves</th>
<th>No. of lines and max. rated loads (tons)</th>
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### Boom lengths and no. of parts of line compatible with use of third winch (with 145 m wire rope)

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- ○: Available  ×: Not available (Limited by the stability of the boom)
- －: Not available (Limited by the length of the wire rope)
Working Ranges

Clamshell Bucket Lifting Capacity

When digging or when handling materials that generate a horizontal pulling load

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<td>Dimension (m)</td>
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Clamshell Bucket Specification (For Reference only)

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<td>4.6</td>
<td>3.2</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Note:
1) Working radius is the horizontal distance between the center of rotation and the bucket’s center of gravity.
2) Total weight of bucket and materials must not exceed rated load.
3) Optimal bucket should be required according to material.
   - Bucket capacity (m³) x Specified gravity of material (ton/m³) + Bucket weight (ton) = Rated load
   - Material: sand, gravel, lime (approx. specific gravity: approx. 1 to 1.8)
   - Ex.) Bucket capacity: 2.0 m³, Bucket weight 3.8 tons
     2.0 m³ x 1.8 + 3.8 tons = 7.4 tons
4) Bucket weight must also be decreased according to operating cycle and bucket lowering height.
5) Rated loads are determined by stability and boom strength. During simultaneous operations of boom and swing, rapid acceleration or deceleration must be avoided. Particular care is required with long boom length.

When handling materials that do not generate a horizontal pulling load

<table>
<thead>
<tr>
<th>Counterweight: 25.8 t</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom Length (m)</td>
</tr>
<tr>
<td>Working Length (m)</td>
</tr>
<tr>
<td>Weight (t)</td>
</tr>
<tr>
<td>Dimension (m)</td>
</tr>
<tr>
<td>Use</td>
</tr>
</tbody>
</table>

| Boom Length (m) | 5.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 5.5 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 6.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 6.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 7.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 8.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 8.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 9.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 9.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 9.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 12.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 12.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 12.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 14.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 14.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 14.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 16.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 16.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 16.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 18.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 18.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 18.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 20.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 20.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |

| Boom Length (m) | 20.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Working Length (m) | 22.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Weight (t) | 22.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Dimension (m) | A | B | C | | |
| Use | Loading | Loading | Loading | Digging | Digging |
PARTS AND ATTACHMENTS

Base Machine
With lower boom, gantry and crawler, wire ropes for main and boom hoist winches, lower spreader and upper spreader
Weight: 46,400 kg Width: 3,200 mm

Counterweight A
Weight: 7,650 kg

Counterweight B
Weight: 7,560 kg

Counterweight C
Weight: 7,560 kg

Counterweight D
Weight: 1,500 kg

Counterweight E
Weight: 1,500 kg

Base Machine
With gantry, crawlers, wire ropes for main and boom hoist winches and lower spreader
Weight: 44,800 kg Width: 3,200 mm

Counterweight A
Weight: 7,650 kg

Counterweight B
Weight: 1,500 kg

Counterweight C
Weight: 7,560 kg

Counterweight D
Weight: 1,500 kg

Counterweight E
Weight: 1,500 kg

Other Attachments

<table>
<thead>
<tr>
<th>Attachments</th>
<th>Weight</th>
<th>Dimensions (L x W x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1 m insert boom with lug</td>
<td>630 kg</td>
<td>6,210 mm x 1,510 mm x 1,645 mm</td>
</tr>
<tr>
<td>9.1 m insert boom with lug</td>
<td>870 kg</td>
<td>9,260 mm x 1,510 mm x 1,645 mm</td>
</tr>
<tr>
<td>Auxiliary sheave</td>
<td>330 kg</td>
<td>1,445 mm x 960 mm x 945 mm</td>
</tr>
<tr>
<td>Trans-lifter</td>
<td>350 kg (1 piece)</td>
<td>1,180 mm x 320 mm x 960 mm</td>
</tr>
<tr>
<td>Crane backstop</td>
<td>97.5 kg (1 piece)</td>
<td>4,400 mm x 114 mm dia. (x 2 pieces)</td>
</tr>
<tr>
<td>Upper spreader</td>
<td>280 kg</td>
<td>1,580 mm x 300 mm x 680 mm</td>
</tr>
<tr>
<td>80-ton hook</td>
<td>950 kg</td>
<td>700 mm x 455 mm x 1,825 mm</td>
</tr>
<tr>
<td>50-ton hook</td>
<td>700 kg</td>
<td>700 mm x 370 mm x 1,700 mm</td>
</tr>
<tr>
<td>32-ton hook</td>
<td>550 kg</td>
<td>700 mm x 365 mm x 1,570 mm</td>
</tr>
<tr>
<td>11-ton ball hook</td>
<td>300 kg</td>
<td>360 mm dia x 1,060 mm</td>
</tr>
</tbody>
</table>

Note: Estimated weights may vary ± 2%.
### Standard Equipment

<table>
<thead>
<tr>
<th>Upper structure/Lower structure</th>
<th>Safety Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counterweight: 25.8 ton (total weight)</td>
<td>Load Moment Indicator (with boom lowering slow stop function)</td>
</tr>
<tr>
<td>800 mm shoe crawlers</td>
<td>LMI release key (for hook over-hoist prevention device and boom over-hoist prevention device)</td>
</tr>
<tr>
<td>Batteries (136 Ah/5 HR)</td>
<td>LCD multi display</td>
</tr>
<tr>
<td>Gantry raising/lowering cylinder</td>
<td>Ultimate stop function for boom over-hoist</td>
</tr>
<tr>
<td>Electric hand throttle grip</td>
<td>Function lock lever</td>
</tr>
<tr>
<td>Variable boom hoist speed controller</td>
<td>Propel lever lock</td>
</tr>
<tr>
<td>Variable main/aux. hoist speed controller</td>
<td>Mechanical drum lock pawl (main, aux. and boom hoist)</td>
</tr>
<tr>
<td>Side deck for cab</td>
<td>Signal horn</td>
</tr>
<tr>
<td>Steps (crawlers)</td>
<td>Swing parking brake</td>
</tr>
<tr>
<td>Two front working lights</td>
<td>Mechanical swing lock pin (two positions)</td>
</tr>
<tr>
<td>Two rear view mirrors</td>
<td>Swing flashers/warning buzzer</td>
</tr>
<tr>
<td>Tools (for routine maintenance)</td>
<td></td>
</tr>
<tr>
<td>Upper spreader storage guide</td>
<td></td>
</tr>
</tbody>
</table>

### Cab Control

- Air conditioner
- Luggage box
- Cup holder
- Ashtray
- Cigar lighter
- Intermittent wiper & window washer (skylight and front window)
- Sun visor
- Roof blind
- Floor mat (cloth)
- Foot rest
- Shoe tray

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**Note:** Standard equipment may vary depending on your areas or countries. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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