Max. Lifting Capacity: 55 t x 3.7 m
Max. Crane Boom Length: 51.8 m
Max. Fixed Jib Combination: 42.7 + 12.2 m, 39.6 + 18.3 m
Max. Tower Jib Combination: 42.4 + 29.0 m
CONFIGURATION

**Crane Boom**
Max. Lifting Capacity: 55 metric ton x 3.7 m
Max. Boom Length: 51.8 m

**Fixed Jib**
Max. Lifting Capacity: 7 metric ton x 16.0 m
Max. Combination: 42.7 m + 12.2 m, 39.6 m + 18.3 m
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- Tower Jib Arrangements ............... 8

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- Auxiliary Sheave Lifting Capacity for Crane Boom ............. 11
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---

**Tower Jib**

Max. Lifting Capacity: 12 metric ton x 10.0 m
Max. Combination: 42.4 m + 29.0 m
SPECIFICATIONS

**Power Plant**

Model: Hino diesel engine J08E-TM
Type: Water-cooled, direct fuel injection, with turbocharger
Compiles with NRMM (Europe) Stage IIIA and US EPA Tier III.
Displacement: 7.684 liters
Rated Power: 159 kW at 2,000 min⁻¹ (rpm) (ISO)
Max. torque: 797 N-m/1,600 min⁻¹
Cooling system: Liquid, recirculating bypass
Starter: 24 V/5.0 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 12 V, 136Ah/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, third 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.

Drums:
- Front drum: 550 mm P.C.D. x 545 mm Lg. wide drum, grooved for 22 mm wire rope. Rope capacity is 175 m working length and 335 m storage length.
- Rear drum: 550 mm P.C.D. x 545 mm Lg. wide drum, grooved for 22 mm wire rope. Rope capacity is 125 m working length and 335 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
- Tower Jib Hoisting/Lowering: 90 to 3 m/min (Rear drum)

Line Pull:
- Rated line pull (Single-line): 68.6 kN (7.0 tf)

**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: 15.2 ton
Additional counterweight: 3.3 ton

Note: Additional counterweight is required when raising or lowering the tower length of 42.4 m.
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.

### Main Specifications (Model: 7055-3F)

<table>
<thead>
<tr>
<th>Crane Boom</th>
<th>Max. Lifting Capacity</th>
<th>55 t/3.7 m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max. Length</td>
<td>51.8 m</td>
</tr>
<tr>
<td>Fixed Jib</td>
<td>Max. Lifting Capacity</td>
<td>7 t/16.0 m</td>
</tr>
<tr>
<td></td>
<td>Max. Combination</td>
<td>42.7 m + 12.2 m, 39.6 m + 18.3 m</td>
</tr>
<tr>
<td>Tower Jib</td>
<td>Max. Lifting Capacity</td>
<td>12 t/10.0 m</td>
</tr>
<tr>
<td></td>
<td>Max. Combination</td>
<td>42.4 m + 29.0 m</td>
</tr>
<tr>
<td></td>
<td>Tower Angle</td>
<td>60° – 90°</td>
</tr>
<tr>
<td>Main &amp; Aux. Winch</td>
<td>Max. Line Speed</td>
<td>120 m/min (1st layer)</td>
</tr>
<tr>
<td></td>
<td>Rated Line Pull (Single Line)</td>
<td>68.6 kN (7.0 tf)</td>
</tr>
<tr>
<td></td>
<td>Wire Rope Diameter</td>
<td>22 mm</td>
</tr>
<tr>
<td></td>
<td>Wire Rope Length</td>
<td>Crane 175 m (Main) 125 m (Aux.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tower 220 m (Main) 120 m (Aux.)</td>
</tr>
<tr>
<td></td>
<td>Brake Type</td>
<td>Spring-set hydraulically released</td>
</tr>
<tr>
<td>Working Speed</td>
<td>Swing Speed</td>
<td>4.0 min⁻¹ (rpm)</td>
</tr>
<tr>
<td></td>
<td>Travel Speed</td>
<td>2.2/1.5 km/h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Plant</th>
<th>Model</th>
<th>Hino J08E-TM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Engine Output</td>
<td>159 kW/2000 min⁻¹ (rpm)</td>
</tr>
<tr>
<td></td>
<td>Fuel Tank Capacity</td>
<td>400 liters</td>
</tr>
</tbody>
</table>

| Hydraulic System   | Main Pumps             | 3 variable displacement |
|--------------------| Max. Pressure          | 31.9 MPa (325 kgf/cm²) |
|                    | Hydraulic Tank Capacity | 440 liters |

### Weight

Including upper and lower machine, 15.2 ton counterweight, basic boom (or basic tower + basic tower jib), 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. 56.7 ton,</td>
<td>72.3 kPa (0.74 kgf/cm²)</td>
</tr>
<tr>
<td>Tower jib</td>
<td>Approx. 60.6 ton,</td>
<td>77.3 kPa (0.79 kgf/cm²)</td>
</tr>
</tbody>
</table>

### Boom and Jib

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

### Boom and Jib Length

<table>
<thead>
<tr>
<th></th>
<th>Min. Length</th>
<th>Max. Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane Boom</td>
<td>(Min. Combination)</td>
<td>9.1 m</td>
</tr>
<tr>
<td>Fixed Jib</td>
<td>30.5 m + 6.1 m</td>
<td>42.7 m + 12.2 m</td>
</tr>
<tr>
<td>Tower Jib</td>
<td>21.0 m + 16.8 m</td>
<td>42.4 m + 29.0 m</td>
</tr>
</tbody>
</table>

### Units

- SI units
- {} indicates conventional units

* Including upper and lower machine, 15.2 ton counterweight, basic boom, hook, and other accessories.

** Base machine with boom base, crawlers, gantry, lower spreader, upper spreader, wire ropes for main and boom hoist winches.

Units are SI units. {} indicates conventional units.
Crane Boom

Limit of Hook Lifting

<table>
<thead>
<tr>
<th>Hook</th>
<th>L</th>
<th>L'</th>
</tr>
</thead>
<tbody>
<tr>
<td>55 t hook</td>
<td>3.9 m</td>
<td></td>
</tr>
<tr>
<td>32 t hook</td>
<td>3.7 m</td>
<td></td>
</tr>
<tr>
<td>19 t hook</td>
<td>3.6 m</td>
<td></td>
</tr>
<tr>
<td>7 t ball hook</td>
<td>3.0 m</td>
<td></td>
</tr>
</tbody>
</table>
Jib offset Angle is Limited (OVER 15°)

Tower Jib Length: 16.8m~29.0m

15° - 75°
Jib offset Angle is Limited (OVER 15°)

Tower Angle (60° - 90°)

1.750

Tower Jib (Unit: mm)
Crane Boom Arrangements

<table>
<thead>
<tr>
<th>Boom length m (ft)</th>
<th>Boom arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1 (30)</td>
<td><img src="image1" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>12.2 (40)</td>
<td><img src="image2" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>15.2 (50)</td>
<td><img src="image3" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>18.3 (60)</td>
<td><img src="image4" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>21.3 (70)</td>
<td><img src="image5" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>24.4 (80)</td>
<td><img src="image6" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>27.4 (90)</td>
<td><img src="image7" alt="Boom Arrangement" /></td>
</tr>
<tr>
<td>30.5 (100)</td>
<td><img src="image8" alt="Boom Arrangement" /></td>
</tr>
</tbody>
</table>

Note: In the following cases a 6.1 m or 9.1 m insert boom with lug is required:
1. With a fixed jib fitted
2. When assembling a boom length of 39.6 m or over without using an auxiliary crane

Fixed Jib Arrangements

<table>
<thead>
<tr>
<th>Crane boom length</th>
<th>Jib length m (ft)</th>
<th>Jib arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.5 m / 42.7 m</td>
<td>6.1 (20)</td>
<td><img src="image9" alt="Jib Arrangement" /></td>
</tr>
<tr>
<td>30.5 m / 39.6 m</td>
<td>12.2 (40)</td>
<td><img src="image10" alt="Jib Arrangement" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Jib Length</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;</td>
<td>3.0 m</td>
<td>Jib Base</td>
</tr>
<tr>
<td>&gt;</td>
<td>3.0 m</td>
<td>Jib Top</td>
</tr>
<tr>
<td>[</td>
<td>6.1 m</td>
<td>Insert Jib</td>
</tr>
<tr>
<td>)</td>
<td>9.1 m</td>
<td>Insert Boom</td>
</tr>
</tbody>
</table>

< mark shows the guy line installing position when the fixed jib is used.
> mark shows the standard boom arrangement which enables each boom length of less than that boom length to be configured.

Note: In the following cases a 6.1 m or 9.1 m insert boom with lug is required:
1. With a fixed jib fitted
2. When assembling a boom length of 39.6 m or over without using an auxiliary crane
### Tower Arrangements

<table>
<thead>
<tr>
<th>Tower length m (ft)</th>
<th>Tower arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.0 (69)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>24.1 (79)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>27.1 (89)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>30.2 (99)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>33.2 (109)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>36.3 (119)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>39.3 (129)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>42.4 (139)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
</tbody>
</table>

### Tower Jib Arrangements

<table>
<thead>
<tr>
<th>Jib length m (ft)</th>
<th>Jib arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.8 (55)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>19.8 (65)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>22.9 (75)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>25.9 (85)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
<tr>
<td>29.0 (95)</td>
<td><img src="image" alt="Diagram" /></td>
</tr>
</tbody>
</table>

### Tower and Jib Combinations and Allowable Tower Angle

<table>
<thead>
<tr>
<th>Tower length m (ft)</th>
<th>Jib length (m)</th>
<th>Pillow plate</th>
<th>Add. weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.0 m</td>
<td>16.8 m</td>
<td></td>
<td>✗</td>
</tr>
<tr>
<td>24.1 m</td>
<td>19.8 m</td>
<td></td>
<td>✗</td>
</tr>
<tr>
<td>27.1 m</td>
<td>22.9 m</td>
<td></td>
<td>✗</td>
</tr>
<tr>
<td>30.2 m</td>
<td>25.9 m</td>
<td></td>
<td>✗</td>
</tr>
<tr>
<td>33.2 m</td>
<td>29.0 m</td>
<td></td>
<td>✗</td>
</tr>
</tbody>
</table>

*Add. weight: Additional weight for self-erection

* mark shows the standard tower arrangement which enables each tower jib length of less than that tower length to be configured.

🔗 mark indicates the cable roller install position.

🔗 mark shows the standard tower jib arrangement which enables each tower jib length of less than that jib length to be configured.
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>55-ton</td>
<td>650</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>32-ton</td>
<td>500</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>19-ton</td>
<td>400</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>7-ton ball hook</td>
<td>160</td>
<td>0</td>
<td>7.0</td>
</tr>
</tbody>
</table>

Symbols for Attachments:

- Crane Boom
- Auxiliary Sheave for Crane Boom
- Fixed Jib
- Tower Jib
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 is 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.
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 9.1 m to 48.8 m.
18. Crane boom ratings with auxiliary sheave: Deduct 0.5 ton from crane boom ratings shown. Minimum rated loads must exceed 1.1 ton.
### Crane Boom Lifting Capacity

<table>
<thead>
<tr>
<th>Boom length (m)</th>
<th>9.1</th>
<th>12.2</th>
<th>15.2</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>
<th>42.7</th>
<th>45.7</th>
<th>48.8</th>
<th>51.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working radius (m)</td>
<td>3.0</td>
<td>5.0</td>
<td>7.0</td>
<td>9.0</td>
<td>11.0</td>
<td>13.0</td>
<td>15.0</td>
<td>17.0</td>
<td>19.7</td>
<td>22.9</td>
<td>25.1</td>
<td>27.3</td>
<td>29.5</td>
<td>31.7</td>
<td>34.0</td>
</tr>
<tr>
<td>Crane Boom Lifting Capacity</td>
<td>3.0</td>
<td>4.0</td>
<td>5.0</td>
<td>6.0</td>
<td>7.0</td>
<td>8.0</td>
<td>9.0</td>
<td>10.0</td>
<td>11.0</td>
<td>12.0</td>
<td>13.0</td>
<td>14.0</td>
<td>15.0</td>
<td>16.0</td>
<td>17.0</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 P10.

### Auxiliary Sheave Lifting Capacity for Crane Boom

(With 19 t Main Hook)

<table>
<thead>
<tr>
<th>Boom length (m)</th>
<th>9.1</th>
<th>12.2</th>
<th>15.2</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>
<th>42.7</th>
<th>45.7</th>
<th>48.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working radius (m)</td>
<td>3.0</td>
<td>4.0</td>
<td>5.0</td>
<td>6.0</td>
<td>7.0</td>
<td>8.0</td>
<td>9.0</td>
<td>10.0</td>
<td>11.0</td>
<td>12.0</td>
<td>13.0</td>
<td>14.0</td>
<td>15.0</td>
<td>16.0</td>
</tr>
<tr>
<td>Crane Boom Lifting Capacity</td>
<td>3.0</td>
<td>4.0</td>
<td>5.0</td>
<td>6.0</td>
<td>7.0</td>
<td>8.0</td>
<td>9.0</td>
<td>10.0</td>
<td>11.0</td>
<td>12.0</td>
<td>13.0</td>
<td>14.0</td>
<td>15.0</td>
<td>16.0</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 P10.
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 is 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/ jib inserts and guy lines must be arranged as shown in the "Operator’s Manual".
9. Gantry must be in raised position for all conditions.
10. Boom backstops are required for all boom lengths.
11. Crawler frames must be fully extended for all crane operations.
12. The boom should be erected over the front of crawlers, not laterally.
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. Fixed jib ratings: Deduct weight of jib hook block, slings, and all other load handling accessories from fixed jib ratings shown.
16. Crane boom lengths for fixed jib mounting are 30.5 m to 42.7 m.
# Fixed Jib Lifting Capacities (Without Main Hook)

## Jib Offset Angle: 10°

<table>
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<tr>
<th>Boom length (m)</th>
<th>30.5</th>
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<th>39.6</th>
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Note:
- Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
- Refer to notes P12.

## Jib Offset Angle: 30°

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<tbody>
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<td>Jib length (m)</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 P12.

## Counterweight: 15.2 t

- Unit: metric ton
- Ratings shown in □ are determined by the strength of the boom or other structural components.
- Refer to notes P12.
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 is 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. Tower/tower jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Tower jib hoist reeving is 8 part line.
10. Gantry must be in raised position for all conditions.
11. Crawlers must be fully extended for all crane operations.
12. Tower and tower jib backstops are required for all tower and tower jib combinations.

13. Ratings shown in [ ] are determined by the strength of the tower or other structural component.

14. With a 16.8 m tower jib, a 7-ton ball hook cannot be used.

15. When erecting and lowering the tower length of 39.3 m or over, the pillow plate for erection must be placed at the end of crawlers.

16. For the erection and dismantling of a 42.4 m tower, an additional weight for erection use (3.3 ton) must be used. Additional weight for self-erection should be removed during crane operation.

17. When using a 19-ton hook with a 16.8 m tower jib, or a 7-ton ball hook with a 19.8 m tower jib, attach a tower jib point weight (300 kg).

18. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.

19. Tower jib ratings: Deduct weight of hook block, slings, and all other load handling accessories from tower jib ratings shown.
### Tower Jib Lifting Capacities

**Unit:** metric ton

**Counterweight:** 15.2 t

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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 tower or other structural components. Refer to notes P15 and P16.
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<th>Counterweight: 15.2 t</th>
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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 tower or other structural components.
Refer to notes P15 and P16.
### Tower length (m) vs Jib length (m)

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**Ratings shown in** are determined by the strength of the tower or other structural components.

**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 tower or other structural components.
- Refer to notes P15 and P16.

**Unit:** metric ton

**Counterweight:** 15.2 t
<table>
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<td>40.0</td>
<td>39.0 m/1.1</td>
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<td>39.0 m/1.1</td>
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<td>4.0</td>
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</tbody>
</table>

**Unit: metric ton**

**Counterweight: 15.2 t**

<table>
<thead>
<tr>
<th>Tower length (m)</th>
<th>Jib length (m)</th>
<th>42.4</th>
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</thead>
<tbody>
<tr>
<td>Tower angle</td>
<td>90°</td>
<td>80°</td>
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<tr>
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<td>6.5 m/9.8</td>
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<td>8.2</td>
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<tr>
<td>16.0</td>
<td>7.3</td>
<td>10.6 m/2.6</td>
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<tr>
<td>18.0</td>
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<td>5.7</td>
</tr>
<tr>
<td>20.0</td>
<td>18.3 m/5.5</td>
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</tr>
<tr>
<td>22.0</td>
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<td>21.3 m/0.4</td>
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<td>26.0</td>
<td>25.7 m/2.8</td>
<td>26.2 m/2.3</td>
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<td>28.0</td>
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<td>1.9</td>
<td>28.8 m/3.1</td>
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<td>34.0</td>
<td>32.8 m/1.6</td>
<td>1.4</td>
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<tr>
<td>36.0</td>
<td>35.7 m/1.3</td>
<td>1.2</td>
</tr>
<tr>
<td>38.0</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>40.0</td>
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</tr>
<tr>
<td>42.0</td>
<td>41.1 m/2.2</td>
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</tbody>
</table>

**Note:**
Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc. Ratings shown in red are determined by the strength of the tower or other structural components. Refer to notes P15 and P16.
**Parts and Attachments**

**Base Machine**
With boom base, crawlers, gantry, lower spreader, upper spreader, and wire rope for main & boom hoist winches
Weight: 40,200 kg Width: 3,200 mm

**Crawler**
Weight: 6,500 kg

**Counterweight A**
Weight: 7,510 kg

**Counterweight B**
Weight: 7,730 kg

**Counterweight A**
Weight: 7,510 kg

**Counterweight B**
Weight: 7,730 kg

**Insert Boom**

<table>
<thead>
<tr>
<th>L (mm)</th>
<th>Weight (kg)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0m</td>
<td>3,145</td>
</tr>
<tr>
<td>6.1m</td>
<td>6,190</td>
</tr>
<tr>
<td>9.1m</td>
<td>9,240</td>
</tr>
</tbody>
</table>

*with boom guy cables

**Boom Base**
Weight: 980 kg

**Boom Top**
Weight: 1,070 kg (with boom guy cables)

**9.1 m Special Insert Boom for Tower**
Weight: 1,190 kg (with boom guy cables)

**Tower Cap**
Weight: 600 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>540 kg (with guy cables)</td>
<td>6,190 mm x 1,350 mm x 1,500 mm</td>
</tr>
<tr>
<td>9.1 m insert boom with lug</td>
<td>750 kg (with guy cables)</td>
<td>9,240 mm x 1,350 mm x 1,500 mm</td>
</tr>
<tr>
<td>6.1 m insert jib (for crane)</td>
<td>140 kg</td>
<td>6,160 mm x 675 mm x 625 mm</td>
</tr>
<tr>
<td>Jib strut (for crane)</td>
<td>190 kg</td>
<td>3,700 mm x 670 mm x 500 mm</td>
</tr>
<tr>
<td>Auxiliary sheave</td>
<td>140 kg</td>
<td>1,325 mm x 540 mm x 1,285 mm</td>
</tr>
<tr>
<td>Upper spreader for boom hoist</td>
<td>280 kg</td>
<td>1,460 mm x 300 mm x 630 mm</td>
</tr>
<tr>
<td>Upper spreader for tower jib</td>
<td>225 kg</td>
<td>640 mm x 610 mm x 775 mm</td>
</tr>
<tr>
<td>Lower spreader for tower jib</td>
<td>335 kg</td>
<td>1,350 mm x 450 mm x 930 mm</td>
</tr>
<tr>
<td>55-ton hook</td>
<td>650 kg</td>
<td>590 mm x 435 mm x 1,470 mm</td>
</tr>
<tr>
<td>32-ton hook</td>
<td>500 kg</td>
<td>590 mm x 330 mm x 1,530 mm</td>
</tr>
<tr>
<td>19-ton hook</td>
<td>400 kg</td>
<td>590 mm x 385 mm x 1,270 mm</td>
</tr>
<tr>
<td>7-ton ball hook</td>
<td>160 kg</td>
<td>Ø 300 mm x 815 mm</td>
</tr>
</tbody>
</table>

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

Upper structure/Lower structure
- Counterweight: 15.2 ton (total weight)
- 760 mm shoe crawlers
- Batteries (2-12V, 136 Ah/5 HR)
- Gantry raising/lowering cylinder
- Electric hand throttle grip
- Variable boom hoist speed controller
- Variable main/aux. hoist speed controller
- Swing neutral-free/brake select switch
- Side deck for cab
- Steps (crawlers)
- Two front working lights
- Two rear view mirrors
- Tools (for routine maintenance)
- Cable roller (for boom)
- Upper spreader storage guide

Safety Device
- Load Moment Indicator (with boom lowering slow stop function)
- LMI release key (for hook over-hoist prevention device and boom over-hoist prevention device)
- LCD multi display
- Ultimate stop function for boom over-hoist
- Function lock lever
- Propel lever lock
- Mechanical drum lock pawl (main, aux. and boom hoist)
- Signal horn
- Swing parking brake
- Mechanical swing lock pin (two positions)
- Swing flashers/warning buzzer

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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