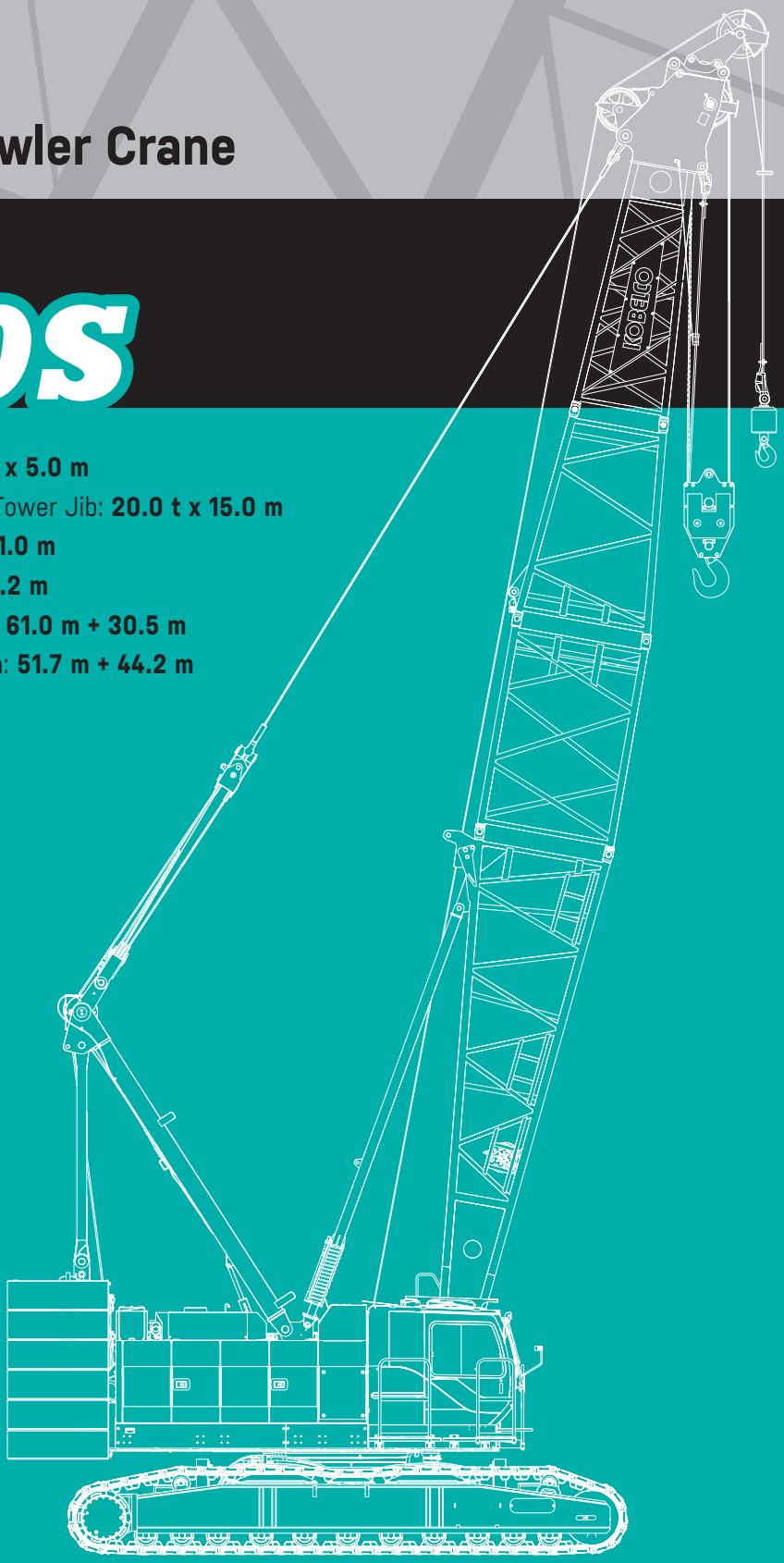
Hydraulic Crawler Crane

7120S

Model : 7120S

Max. Lifting Capacity: **120 t x 5.0 m**
Max. Lifting Capacity With Tower Jib: **20.0 t x 15.0 m**
Max. Crane Boom Length: **61.0 m**
Max. Long Boom Length: **79.2 m**
Max. Fixed Jib Combination: **61.0 m + 30.5 m**
Max. Tower Jib Combination: **51.7 m + 44.2 m**



KOBELCO

7120S
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SPECIFICATIONS

Power Plant

Model: HINO P11C-VH
Type: 4 cycle, water-cooled, vertical in-line 6, direct injection, turbo-charger, intercooler
Displacement: 10.52 L
Rated power: 271 kW/1,850 min^{-1}
Max. Torque: 1,469 N·m/1,400 min^{-1}
Cooling System: Water-cooled
Starter: 24 V-6 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: Replaceable paper element
Batteries: Two 12 V x 136 Ah/5 HR capacity batteries, series connected
Fuel tank capacity: 400 L

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:** 31.9 MPa
- **Swing system:** 27.5 MPa
- **Control system:** 5.4 MPa

Oil Quantity (at the reference level): 455 L

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 a hydraulic variable plunger motors, driven through planetary reducers.
Negative Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional)
Drum Lock: External ratchet for locking drum
Drums:
- **Front Drums:**
  666 mm P.C.D x 672 mm wide drum, grooved for 26 mm wire rope. Rope capacity is 275 m working length and 350 m storage length.
- **Rear Drum:** 666 mm P.C.D x 672 mm, grooved for 26 mm wire rope. Rope capacity is 255 m working length and 350 m storage length.

Diameter of wire rope
- **Main winch:** 26 mm x 275 m
- **Aux. winch:** 26 mm x 255 m
- **Third winch:** 26 mm x 240 m

Line Speed*:
- **Hoisting/lowering:** 120 to 3 m/min

Line Pull:
- **Max. Line Pull*:** 233 kN {23.8 tf}
  (Referential performance)
- **Rated Line Pull:** 118 kN {12.0 tf}

*Single line on first drum layer

Swing System

Swing unit is powered by hydraulic motor driving spur gears 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, 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: 53.1 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): 910 mm wide each crawler

Max. gradeability: 30%

Weight

Including upper and lower machine, 53.1 ton counterweight and basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 120 ton

Ground pressure: 93.6 kPa

Attachment

Boom & Jib:

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

Boom and Jib length

	Min. Length (Min. combination)	Max. Length (Max. combination)
Crane Boom	15.2 m	61.0 m
Fixed Jib	24.4 m + 12.2 m	61.0 m + 30.5 m

Main Specifications (Model: 7120S)

Crane Boom	
Max. Lifting Capacity	120 t x 5.0 m
Max. Length	61.0 m
Fixed Jib	
Max. Lifting Capacity	12.0 t x 28.0 m
Max. Combination	61.0 m + 30.5 m
Long Boom	
Max. Lifting Capacity	24.0 t x 16.0 m
Max. Length	79.2 m
Tower Jib	
Max. Lifting Capacity	20.0 t x 15.0 m
Max. Jib Length	44.2 m
Max . Combination	51.7 m + 44.2 m
Main & Aux. Winch	
Max. Line Speed (1st layer)	120 m/min
Rated Line Pull (Single line)	118 kN {12.0 tf}
Wire Rope Diameter	26 mm
Wire Rope Length	275 m (Main), 255 m (Aux.)
Brake Type (Free fall)	Wet-type multiple disc brake (Optional)
Working Speed	
Swing Speed	2.1 min^{-1}{rpm}
Travel Speed	1.3/0.9 km/h

Power Plant	
Model	HINO P11C-VH
Engine Output	271 kW / 1,850 min^{-1}
Fuel Tank	400 L
Hydraulic System	
Main Pumps	4 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm^2}
Oil Quantity (at the reference level)	455 L
Self-Removal Device	
	NA
Weight	
Operating Weight	120 t *1
Ground Pressure	93.6 kPa
Counterweight	53,110 kg
Transport Weight	34,800 kg *2

Units are SI units. { } indicates conventional units.

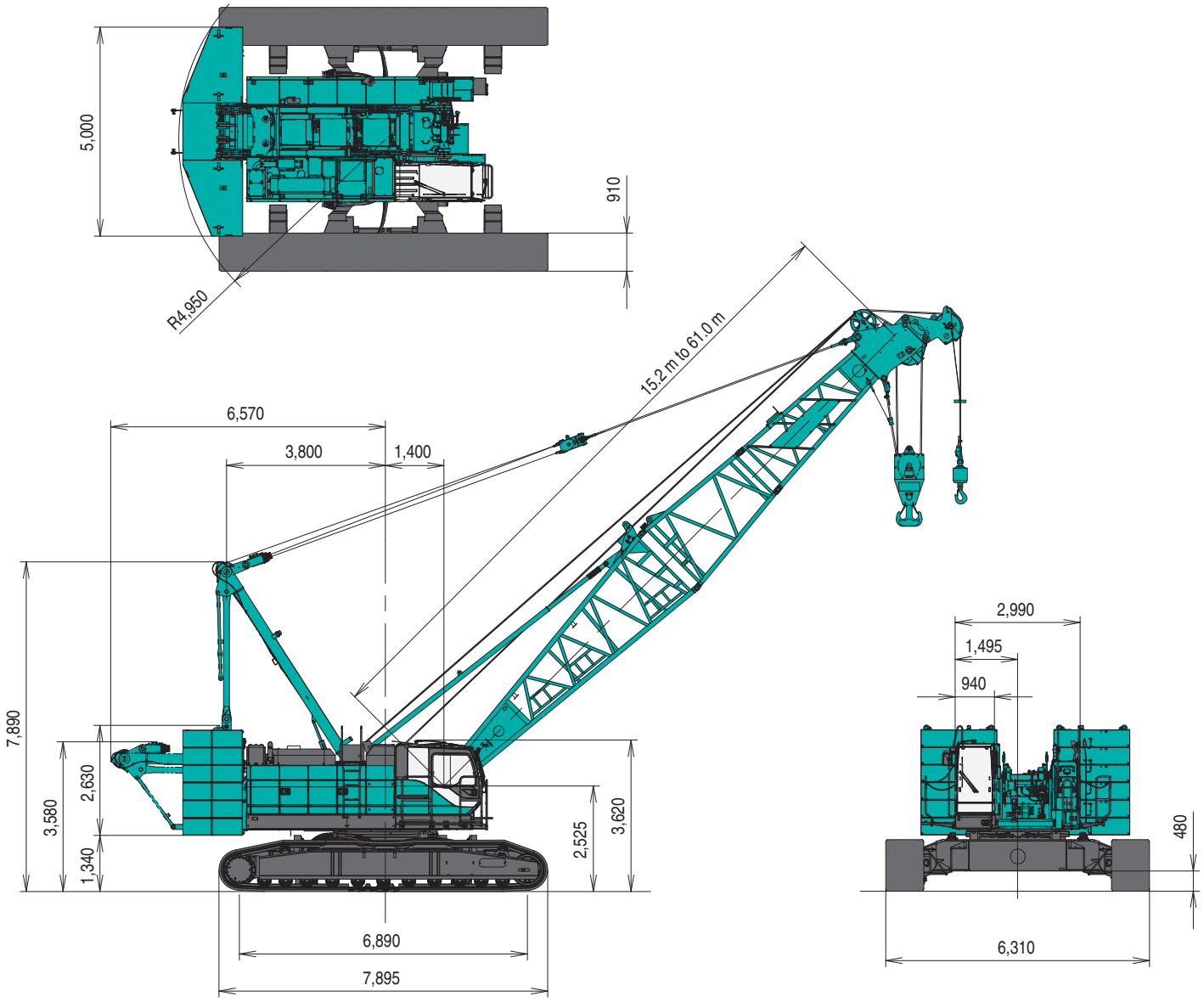
Line speeds in table are for light loads. Line speed varies with load.

*1 Including upper and lower machine, 53.1 ton counterweight, basic boom, hook, and other accessories.

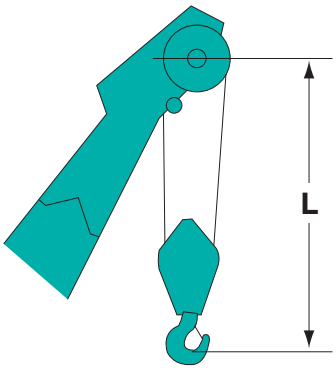
*2 Base Machine with boom base gantry, wire ropes (front/rear/boom hoist)

Crane Boom

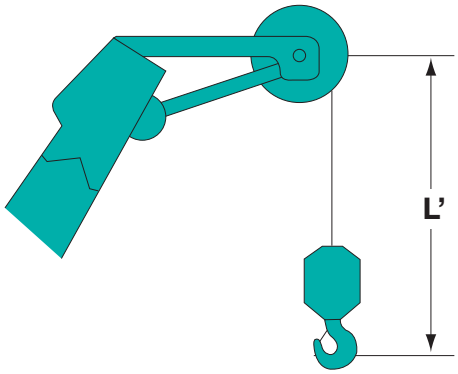
(Unit: mm)



Limit of Hook Lifting



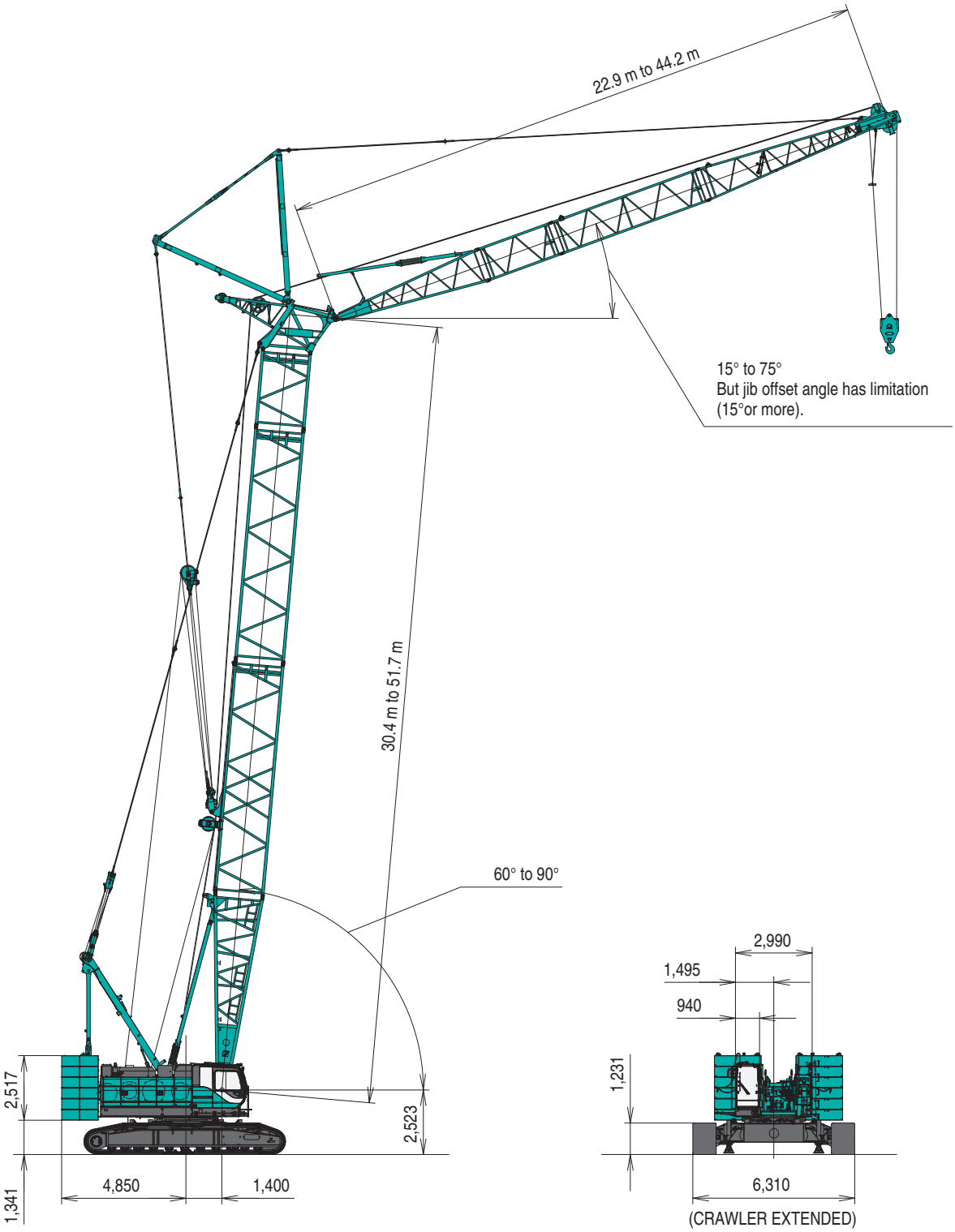
Hook	L
120 t hook	5.0 m
70 t hook	5.0 m
35 t hook	5.0 m



Hook	L'
Ball hook	4.2 m

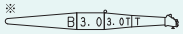
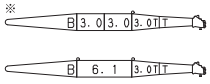
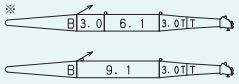
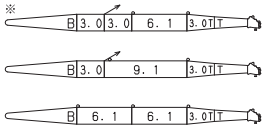
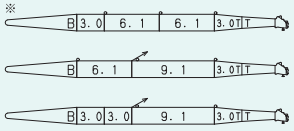
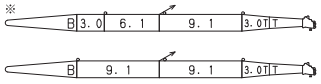
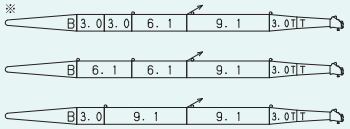
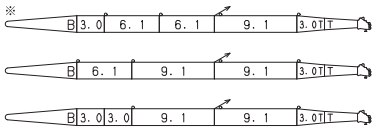
Tower Jib

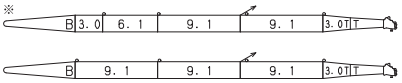
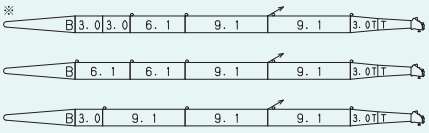
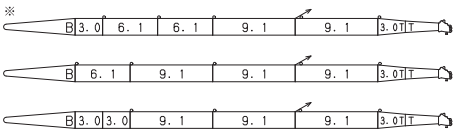
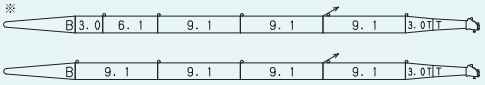
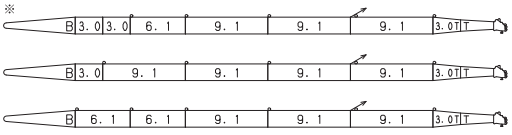
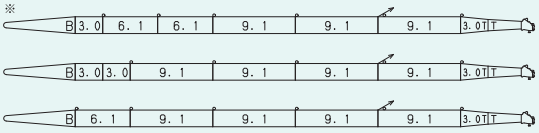
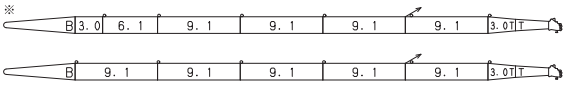
(Unit: mm)



This catalog may contain photographs of machines with specifications, attachments and optional equipment.

Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
15.2 (50)	
18.3 (60)	
21.3 (70)	
24.4 (80)	
27.4 (90)	
30.5 (100)	
33.5 (110)	
36.6 (120)	
39.6 (130)	

Boom length m (ft)	Boom arrangement
42.7 (140)	
45.7 (150)	
48.8 (160)	
51.8 (170)	
54.9 (180)	
57.9 (190)	
61.0 (200)	

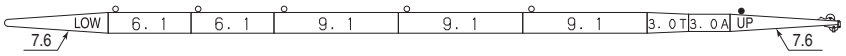
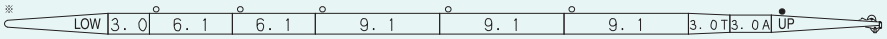
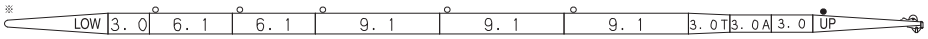
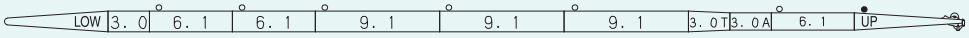
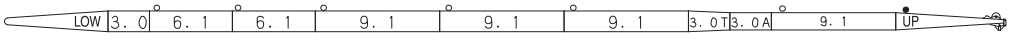
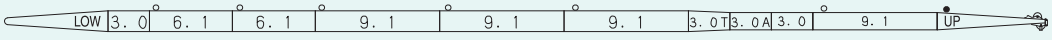
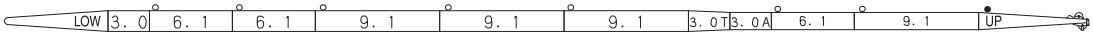
Symbol	Boom Length	Remarks
B	7.6 m	Boom Base
T	4.6 m	Boom Tip
3.0T	3.0 m	Tapered Boom
3.0	3.0 m	Insert Boom
6.1	6.1 m	Insert Boom
9.1	9.1 m	Insert Boom

↗ Mark shows the boom insert with lugs attached and the guy line installing position when the jib is used.

※ Indicates the most flexible combination of insert booms, which can be modified to form all shorter boom arrangements.

○ Mark shows the installing of the cable roller for the insert boom.

Long Boom Arrangements

Boom length m (ft)	Long Boom arrangement
61.0 (200)	
64.0 (210)	
67.1 (220)	
70.1 (230)	
73.2 (240)	
76.2 (250)	
79.2 (260)	

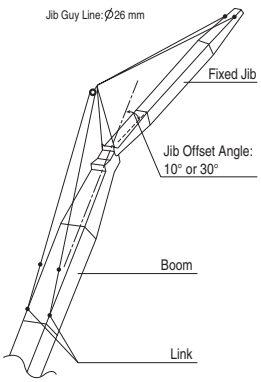
Symbol	Long Boom Length	Remarks
LOW	7.6 m	Boom Base
UP	7.6 m	Tower Jib Tip
3.0	3.0 m	Insert Boom
6.1	6.1 m	Insert Boom
9.1	9.1 m	Insert Boom
3.0T	3.0 m	Tapered Boom
3.0A	3.0 m	Relay Jib
3.0	3.0 m	Tower Insert Jib
6.1	6.1 m	Tower Insert Jib
9.1	9.1 m	Tower Insert Jib

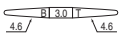
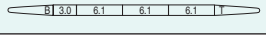
※ Indicates the most flexible combination of insert long booms, which can be modified to form all shorter long boom arrangements.

○ Mark shows the installing position of the cable roller for the insert boom section.

● Mark shows the installing position of the cable roller for the boom tip section.

Fixed Jib Arrangements



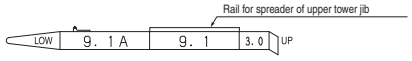
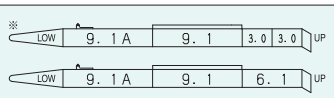
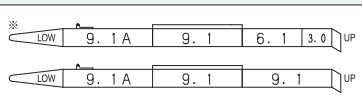
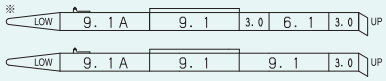
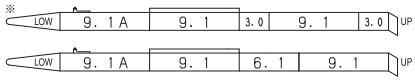
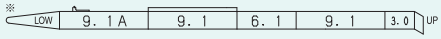
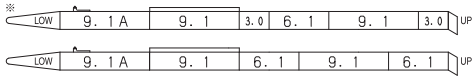
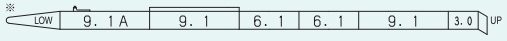
Crane boom length	Jib length m (ft)	Jib arrangement	Jib offset angle
24.4 m to 61.0 m	12.2 (40)		30°
	18.3 (60)		10° / 30°
	24.4 (80)		10° / 30°
	30.5 (100)		10° / 30°

※The jib length of 12.2 m is based on the only setting of 30 degrees offset.

Symbol	Jib Length	Remarks
B	4.6 m	Jib Base
T	4.6 m	Jib Tip
3.0	3.0 m	Insert Jib
6.1	6.1 m	Insert Jib

BOOM AND JIB ARRANGEMENTS

Tower Arrangements

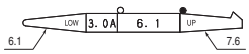
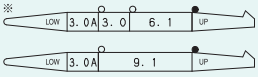
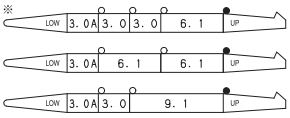
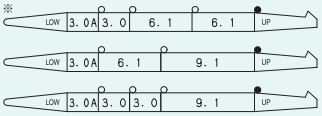
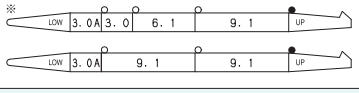
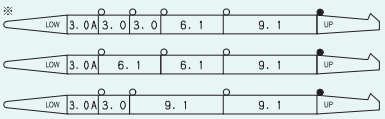
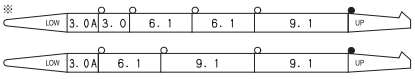
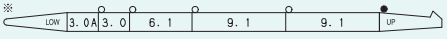
Tower length m (ft)	Tower arrangement
30.4 (100)	
33.4 (110)	
36.5 (120)	
39.5 (130)	
42.5 (140)	
45.6 (150)	
48.6 (160)	
51.7 (170)	

Symbol	Tower Length	Remarks
LOW	7.6 m	Boom Base
UP	1.4 m	Tower Cap
3.0	3.0 m	Insert Boom
6.1	6.1 m	Insert Boom
9.1	9.1 m	Insert Boom
9.1A	9.1 m	Special Insert Boom for Tower
9.1	9.1 m	Insert Boom with Rail

※ Indicates the most flexible combination of insert tower booms, which can be modified to form all shorter tower boom arrangements.

9.1A should be basically used in tower, and it may be also used as insert boom for crane.

Tower Jib Arrangements

Jib length m (ft)	Jib arrangement
22.9 (75)	
25.9 (85)	
29.0 (95)	
32.0 (105)	
35.1 (115)	
38.1 (125)	
41.1 (135)	
44.2 (145)	

Symbol	Tower Jib Length	Remarks
LOW	6.1 m	Tower Jib Base
UP	7.6 m	Tower Jib Tip
3.0A	3.0 m	Relay Jib
3.0	3.0 m	Tower Insert Jib
6.1	6.1 m	Tower Insert Jib
9.1	9.1 m	Tower Insert Jib

※ Indicates the most flexible combination of insert tower jibs, which can be modified to form all shorter tower jib arrangements.

○ Mark shows the installing position of the cable roller for the jib insert section. (option)

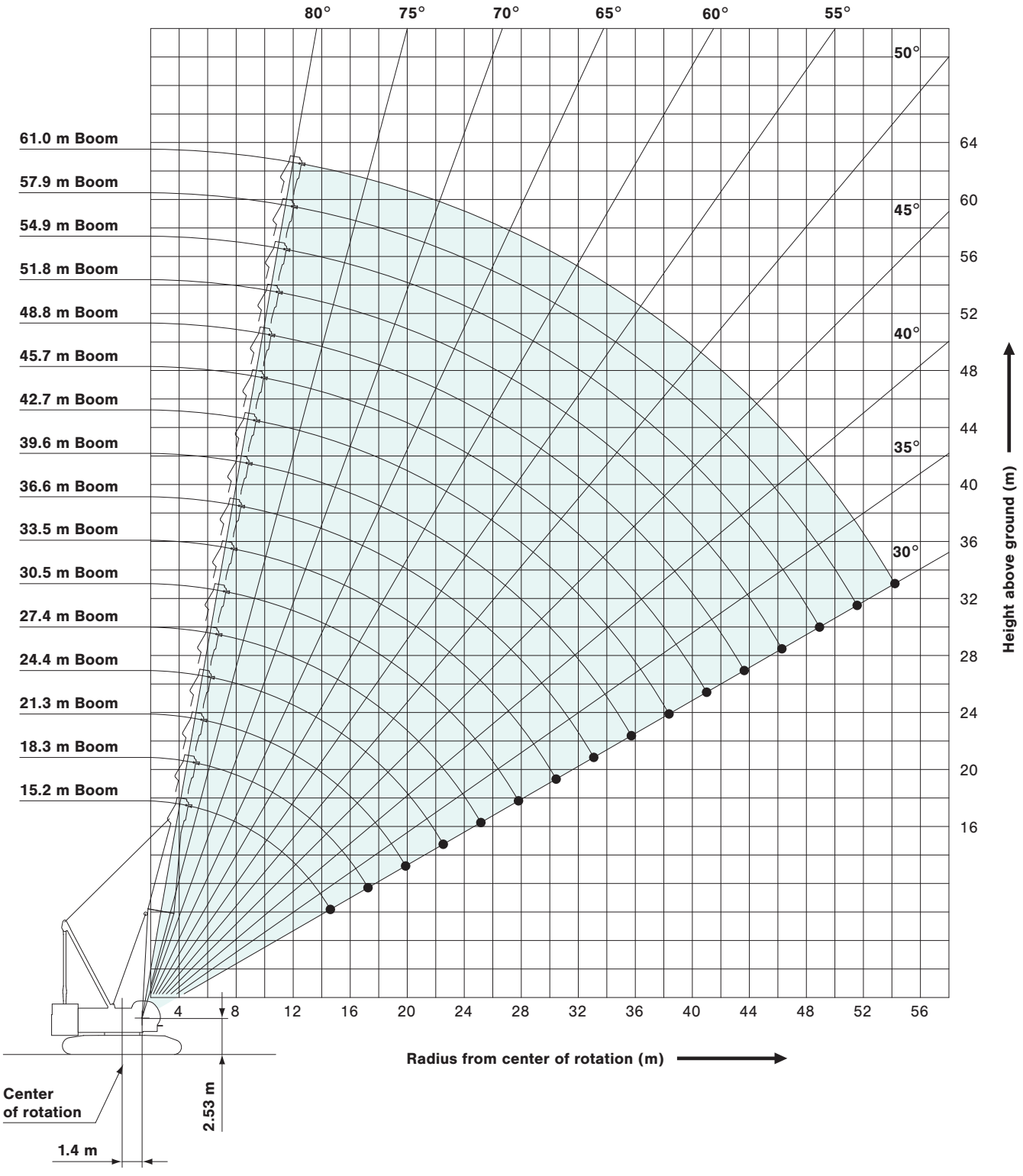
● Mark shows the installing position of the cable roller for the jib tip section. (standard)

Tower and Jib Combinations and Allowable Tower Angle

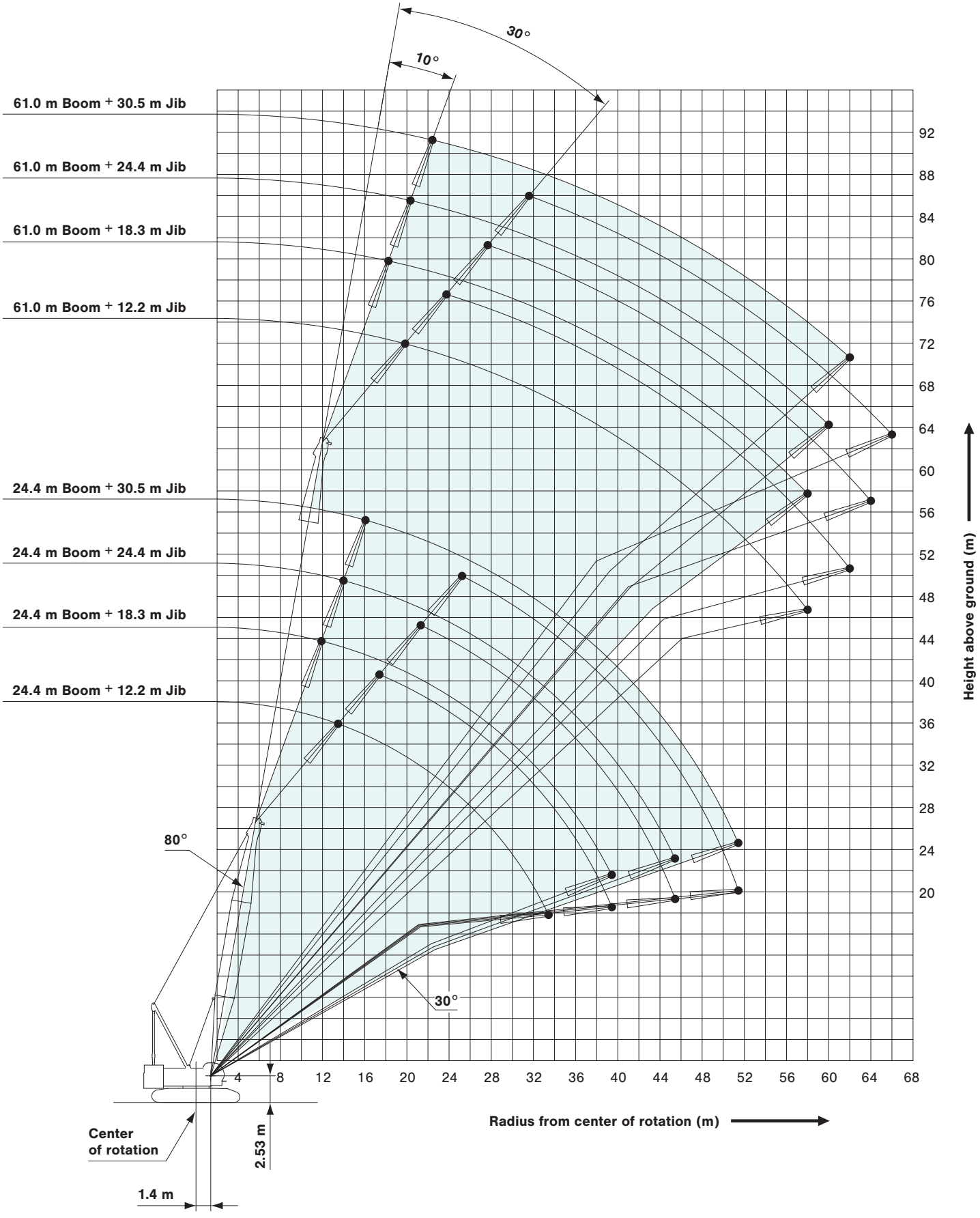
Tower length \ Jib length	22.9 m	25.9 m	29.0 m	32.0 m	35.1 m	38.1 m	41.1 m	44.2 m	Pillow plate
30.4 m	90°-60°	90°-60°	—	—	—	—	—	—	—
33.4 m	90°-60°	90°-60°	90°-60°	90°-60°	—	—	—	—	—
36.5 m	90°-60°	90°-60°	90°-60°	90°-60°	—	—	—	—	—
39.5 m	90°-60°	90°-60°	90°-60°	90°-60°	90°-60°	—	—	—	—
42.5m	90°-60°	90°-60°	90°-60°	90°-60°	90°-60°	90°-60°	—	—	—
45.6 m	90°-60°	90°-60°	90°-60°	90°-60°	90°-60°	90°-60°	90°-70°	—	—
48.6 m	90°-60°	90°-60°	90°-60°	90°-60°	90°-60°	90°-70°	90°-70°	90°-70°	—
51.7 m	90°-60°	90°-60°	90°-60°	90°-60°	90°-70°	90°-70°	90°-70°	90°-70°	Need
Hook: 35 ton hook	○	○	○	○	○	○	○	○	
Hook: Ball hook	×	○	○	○	○	○	○	○	

○ : Available
× : Not available

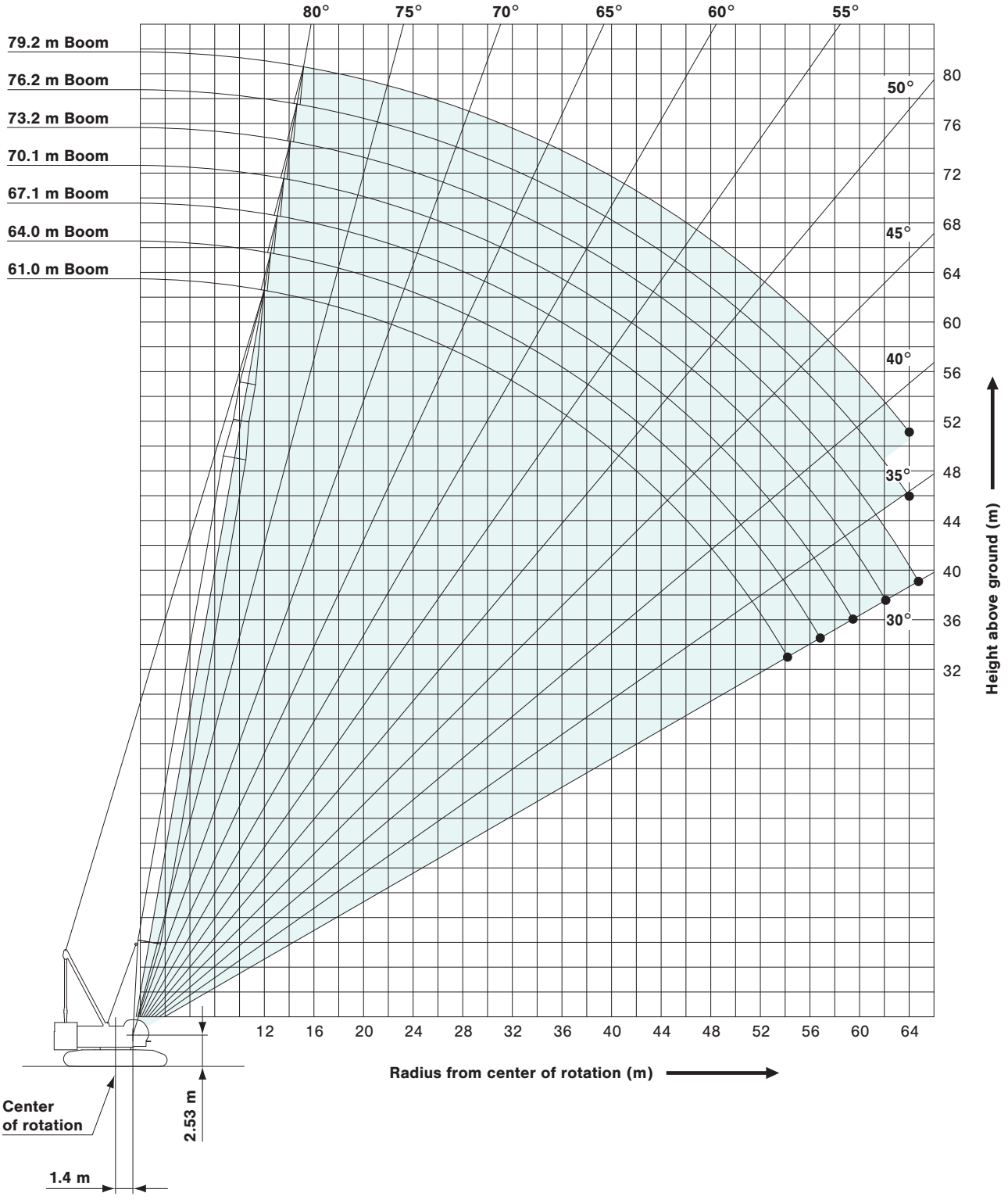
Crane Boom


80°
75°
70°
65°
60°
55°
50°
45°
40°
35°
30°
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
15.2 m Boom
4
8
12
16
20
24
28
32
36
40
44
48
52
56
64
60
56
52
48
44
40
36
32
28
24
20
16
Height above ground (m)
Radius from center of rotation (m)
Center of rotation
2.53 m
1.4 m

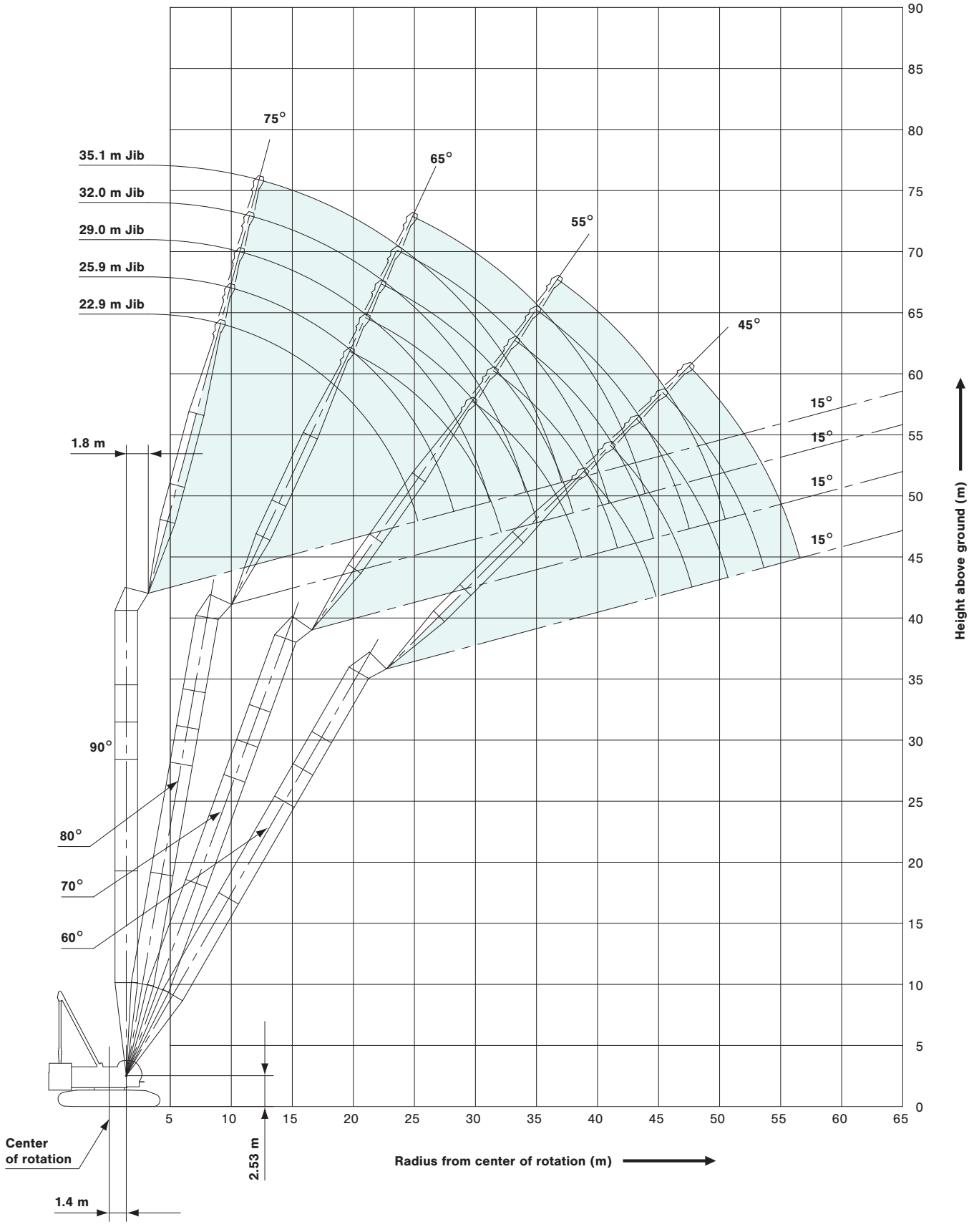
Fixed Jib 10°, 30°



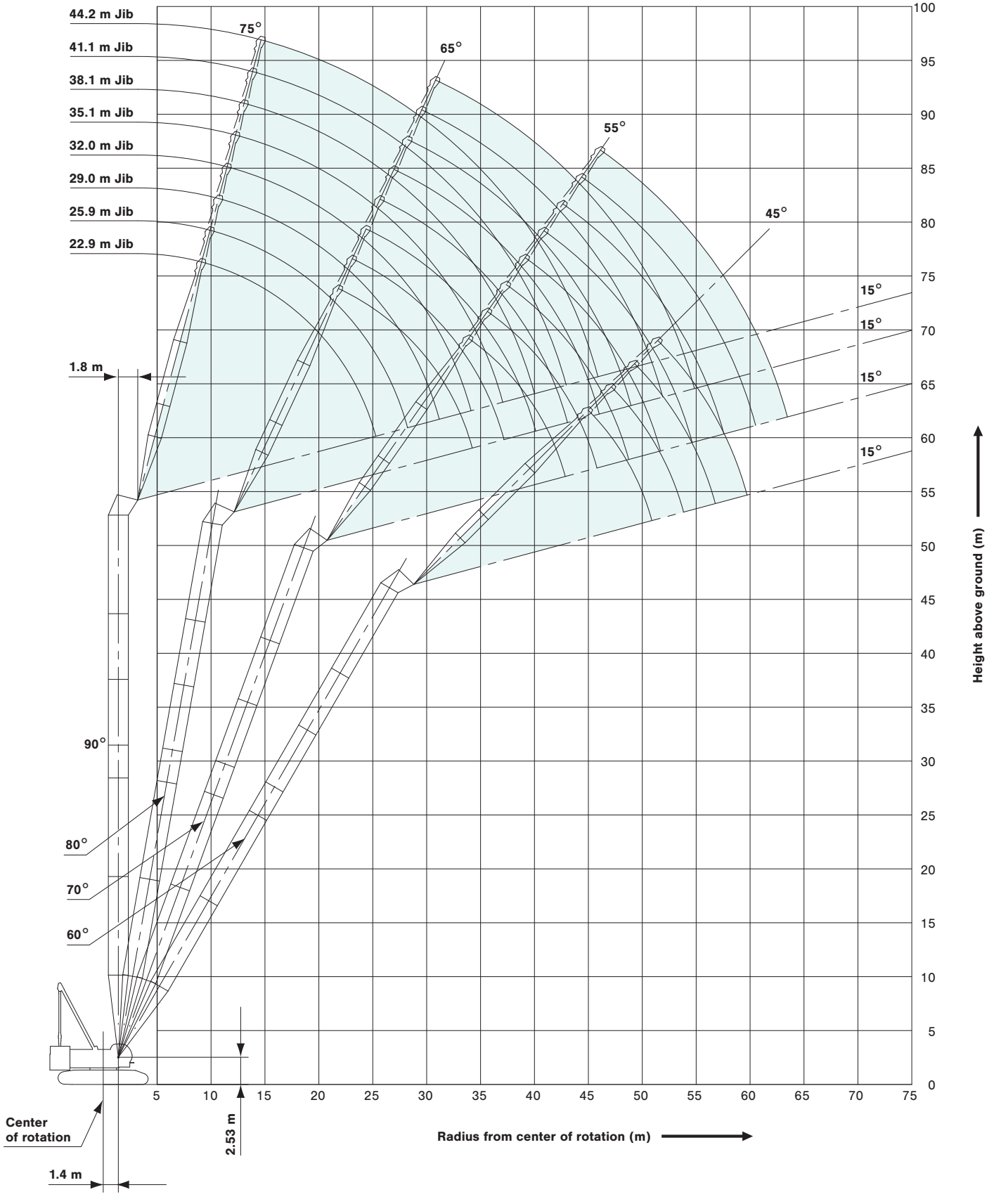
Long Boom


80°
75°
70°
65°
60°
55°
50°
45°
40°
35°
30°
79.2 m Boom
76.2 m Boom
73.2 m Boom
70.1 m Boom
67.1 m Boom
64.0 m Boom
61.0 m Boom
80
76
72
68
64
60
56
52
48
44
40
36
32
Height above ground (m)
12
16
20
24
28
32
36
40
44
48
52
56
60
64
Radius from center of rotation (m)
Center
of rotation
2.53 m
1.4 m

Tower Jib
Tower Length: 39.5m



Tower Jib
Tower Length 51.7m



- Ratings according to Japanese Construction Codes for Mobile Cranes.
- 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.
- Ratings inside of boxes ☐ are limited by strength of materials.
- The minimum rated load is 2.0 (ton).

(Crane boom/long boom lifting)

- 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

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	118	235	353	471	588
Maximum Loads (t)	12.0	24.0	36.0	48.0	60.0

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	706	824	941	1,059	1,177
Maximum Loads (t)	72.0	84.0	96.0	108.0	120.0

Auxiliary hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	118
Maximum Loads (t)	12.0

Weight of hook block				
Hook Block	120 t	70 t	35 t	Ball Hook
Weight (t)	1.7	1.2	0.9	0.45

(Fixed jib lifting)

- The total load that can be lifted is the value for weight of jib hook block, slings, and all other load handling accessories deducted from fixed jib ratings shown.
- The availability of fixed jib mounting
  - on crane boom : range 24.4 m to 61.0 m.
- One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

LIFTING CAPACITIES

Crane Boom Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

Working radius (m) \ Boom length (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	Boom length (m) \ Working radius (m)
4.5	4.5m/120.0								4.5
5.0	120.0	5.1m/108.0	5.6m/96.0						5.0
6.0	100.0	99.8	94.9	6.1m/84.0	6.7m/74.6				6.0
7.0	85.7	85.5	85.3	81.5	73.7	7.2m/66.4	7.7m/59.4		7.0
8.0	73.7	73.6	73.5	73.5	71.3	64.7	58.9	8.2m/53.6	8.0
9.0	61.5	61.3	61.2	61.1	61.0	60.9	57.2	52.5	9.0
10.0	52.6	52.5	52.3	52.2	52.1	52.0	52.0	51.2	10.0
12.0	40.6	40.5	40.3	40.2	40.0	40.0	39.9	39.7	12.0
14.0	33.0	32.8	32.6	32.5	32.3	32.3	32.2	32.0	14.0
16.0	14.9m/29.1	27.5	27.3	27.2	26.9	26.9	26.8	26.6	16.0
18.0		17.5m/24.5	23.3	23.2	23.0	22.9	22.8	22.6	18.0
20.0			20.3	20.2	20.0	19.9	19.8	19.5	20.0
22.0			20.1m/20.2	17.8	17.6	17.5	17.4	17.1	22.0
24.0				22.8m/17.1	15.6	15.5	15.4	15.2	24.0
26.0					25.4m/14.5	13.9	13.8	13.6	26.0
28.0						12.6	12.5	12.2	28.0
30.0							11.3	11.1	30.0
32.0							30.7m/11.0	10.1	32.0
34.0								33.3m/9.5	34.0
Reeves	10	9	8	7	7	6	5	5	Reeves

Working radius (m) \ Boom length (m)	39.6	42.7	45.7	48.8	51.8	54.9	57.9	61.0	Boom length (m) \ Working radius (m)
8.0	8.8m/48.0								8.0
9.0	48.0	9.3m/43.5	9.8m/39.6						9.0
10.0	46.8	42.8	39.5	10.4m/36.0	10.9m/32.1	11.4m/29.4			10.0
12.0	39.7	39.5	37.8	34.7	31.4	29.0	26.9	12.5m/24.0	12.0
14.0	31.9	31.8	31.6	31.6	30.1	27.9	25.9	23.5	14.0
16.0	26.5	26.4	26.2	26.1	26.0	25.8	24.9	22.8	16.0
18.0	22.5	22.4	22.2	22.1	22.0	21.8	21.6	21.4	18.0
20.0	19.5	19.3	19.1	19.1	18.9	18.7	18.6	18.5	20.0
22.0	17.1	16.9	16.7	16.6	16.5	16.3	16.1	16.0	22.0
24.0	15.1	14.9	14.7	14.7	14.5	14.3	14.1	14.1	24.0
26.0	13.5	13.3	13.1	13.0	12.9	12.7	12.5	12.4	26.0
28.0	12.1	12.0	11.7	11.7	11.5	11.3	11.1	11.0	28.0
30.0	11.0	10.8	10.6	10.5	10.3	10.1	10.0	9.9	30.0
32.0	10.0	9.8	9.6	9.5	9.3	9.1	9.0	8.9	32.0
34.0	9.1	8.9	8.7	8.6	8.5	8.2	8.1	8.0	34.0
36.0	8.4	8.2	8.0	7.9	7.7	7.5	7.3	7.2	36.0
38.0		7.5	7.3	7.2	7.0	6.8	6.6	6.5	38.0
40.0		38.6m/7.4	6.7	6.6	6.4	6.2	6.0	5.9	40.0
42.0			41.2m/6.4	6.1	5.9	5.7	5.5	5.4	42.0
44.0				43.9m/5.6	5.4	5.2	5.0	4.9	44.0
46.0					5.0	4.7	4.6	4.4	46.0
48.0					46.5m/4.9	4.3	4.1	3.9	48.0
50.0						49.2m/4.1	3.7	3.5	50.0
52.0							51.8m/3.3	3.1	52.0
54.0								2.7	54.0
56.0								54.4m/2.7	56.0
Reeves	4	4	4	3	3	3	3	2	Reeves

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Fixed Jib Lifting Capacities (Without Main Hook Block)
(Jib Offset Angle : 10°)

Counterweight: 53.1 t

Unit: metric ton

Boom length (m)	24.4				27.4				30.5				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
10.0	10.2m/12.0				10.7m/12.0				11.2m/12.0				10.0
12.0	12.0	12.2m/12.0			12.0	12.8m/12.0			12.0	13.3m/12.0			12.0
14.0	12.0	12.0	14.3m/8.0		12.0	12.0	14.9m/8.0		12.0	12.0	15.4m/8.0		14.0
16.0	12.0	12.0	8.0	16.4m/4.0	12.0	12.0	8.0	16.9m/4.0	12.0	12.0	8.0	17.5m/4.0	16.0
18.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	18.0
20.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	20.0
22.0	12.0	12.0	7.6	4.0	12.0	12.0	7.8	4.0	12.0	12.0	8.0	4.0	22.0
24.0	12.0	12.0	7.3	4.0	12.0	12.0	7.4	4.0	12.0	12.0	7.6	4.0	24.0
26.0	12.0	12.0	7.0	4.0	12.0	12.0	7.1	4.0	12.0	12.0	7.3	4.0	26.0
28.0	12.0	11.8	6.7	3.9	12.0	12.0	6.9	4.0	12.0	12.0	7.0	4.0	28.0
30.0	12.0	11.0	6.4	3.7	11.8	11.7	6.6	3.8	11.7	11.9	6.8	3.9	30.0
32.0	11.1	10.3	6.2	3.5	10.8	11.0	6.4	3.6	10.6	10.9	6.5	3.7	32.0
34.0	10.2	9.7	6.0	3.4	9.9	10.1	6.2	3.5	9.8	10.0	6.3	3.6	34.0
36.0		9.2	5.8	3.2	9.2	9.4	6.0	3.3	9.0	9.2	6.1	3.4	36.0
38.0		8.7	5.6	3.1		8.7	5.8	3.2	8.3	8.5	5.9	3.3	38.0
40.0		8.3	5.5	3.0		8.1	5.6	3.1		7.9	5.8	3.2	40.0
42.0			5.3	2.9		7.5	5.5	3.0		7.3	5.6	3.1	42.0
44.0			5.2	2.8			5.4	2.9		6.9	5.5	3.0	44.0
46.0				2.7			5.2	2.8			5.4	2.9	46.0
48.0				2.6			5.2	2.7			5.3	2.8	48.0
50.0				2.6				2.6			5.2	2.7	50.0
52.0								2.6				2.6	52.0
54.0												2.6	54.0
56.0												2.5	56.0
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Working radius (m)

Boom length (m)	33.5				36.6				39.6				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
10.0	11.7m/12.0												10.0
12.0	12.0	13.8m/12.0			12.3m/12.0				12.8m/12.0				12.0
14.0	12.0	12.0	15.9m/8.0		12.0	14.4m/12.0			12.0	14.9m/12.0			14.0
16.0	12.0	12.0	8.0		12.0	12.0	16.4m/8.0		12.0	12.0	17.0m/8.0		16.0
18.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	18.5m/4.0	12.0	12.0	8.0	19.1m/4.0	18.0
20.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	20.0
22.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	22.0
24.0	12.0	12.0	7.8	4.0	12.0	12.0	7.9	4.0	12.0	12.0	8.0	4.0	24.0
26.0	12.0	12.0	7.5	4.0	12.0	12.0	7.6	4.0	12.0	12.0	7.8	4.0	26.0
28.0	12.0	12.0	7.2	4.0	12.0	12.0	7.3	4.0	12.0	12.0	7.5	4.0	28.0
30.0	11.5	11.7	6.9	4.0	11.3	11.5	7.1	4.0	11.1	11.4	7.2	4.0	30.0
32.0	10.5	10.7	6.7	3.8	10.3	10.5	6.9	3.9	10.1	10.3	7.0	4.0	32.0
34.0	9.6	9.8	6.5	3.7	9.4	9.6	6.6	3.8	9.2	9.4	6.8	3.9	34.0
36.0	8.8	9.0	6.3	3.5	8.6	8.8	6.4	3.6	8.4	8.7	6.6	3.7	36.0
38.0	8.1	8.3	6.1	3.4	7.9	8.1	6.2	3.5	7.8	8.0	6.4	3.6	38.0
40.0	7.5	7.7	5.9	3.3	7.3	7.5	6.1	3.4	7.1	7.3	6.2	3.5	40.0
42.0	7.0	7.2	5.8	3.2	6.8	6.9	5.9	3.3	6.6	6.8	6.0	3.4	42.0
44.0		6.7	5.6	3.1	6.3	6.4	5.8	3.2	6.1	6.3	5.9	3.2	44.0
46.0		6.2	5.5	3.0		6.0	5.6	3.1	5.7	5.8	5.8	3.1	46.0
48.0			5.4	2.9		5.6	5.5	3.0		5.4	5.6	3.0	48.0
50.0			5.3	2.8		5.2	5.4	2.9		5.1	5.3	3.0	50.0
52.0			5.2	2.7			5.1	2.8		4.7	4.9	2.9	52.0
54.0				2.7			4.7	2.7			4.6	2.8	54.0
56.0				2.6			4.5	2.7			4.3	2.7	56.0
58.0				2.5				2.6			4.0	2.7	58.0
60.0								2.5				2.6	60.0
62.0												2.6	62.0
64.0												2.5	64.0
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Working radius (m)

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Fixed Jib Lifting Capacities (Without Main Hook Block)
(Jib Offset Angle : 10°)

Counterweight: 53.1 t

Unit: metric ton

Boom length (m)		42.7				45.7				48.8				Boom length (m)
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
Working radius (m)	12.0	13.3m/12.0				13.9m/12.0								12.0
	14.0	12.0	15.4m/12.0			12.0	15.9m/12.0			14.4m/12.0				14.0
	16.0	12.0	12.0	17.5m/8.0		12.0	12.0			12.0	16.5m/12.0			16.0
	18.0	12.0	12.0	8.0	19.6m/4.0	12.0	12.0	8.0		12.0	12.0	18.6m/8.0		18.0
	20.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	20.1m/4.0	12.0	12.0	8.0	20.6m/4.0	20.0
	22.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	22.0
	24.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	24.0
	26.0	12.0	12.0	7.9	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	26.0
	28.0	12.0	12.0	7.6	4.0	11.9	12.0	7.8	4.0	11.8	12.0	7.9	4.0	28.0
	30.0	11.0	11.2	7.4	4.0	10.7	11.0	7.5	4.0	10.6	10.9	7.6	4.0	30.0
	32.0	9.9	10.2	7.1	4.0	9.7	10.0	7.3	4.0	9.6	9.8	7.4	4.0	32.0
	34.0	9.0	9.3	6.9	4.0	8.8	9.1	7.1	4.0	8.7	8.9	7.2	4.0	34.0
	36.0	8.3	8.5	6.7	3.8	8.0	8.3	6.8	3.9	7.9	8.1	7.0	4.0	36.0
	38.0	7.6	7.8	6.5	3.7	7.3	7.6	6.7	3.8	7.2	7.4	6.8	3.8	38.0
	40.0	7.0	7.2	6.3	3.6	6.7	7.0	6.5	3.6	6.6	6.8	6.6	3.7	40.0
	42.0	6.4	6.6	6.2	3.4	6.2	6.4	6.3	3.5	6.0	6.2	6.4	3.6	42.0
	44.0	5.9	6.1	6.0	3.3	5.7	5.9	6.2	3.4	5.5	5.7	6.0	3.5	44.0
	46.0	5.5	5.7	5.9	3.2	5.2	5.4	5.7	3.3	5.1	5.3	5.6	3.4	46.0
	48.0	5.1	5.2	5.5	3.1	4.8	5.0	5.3	3.2	4.7	4.9	5.1	3.3	48.0
	50.0	4.7	4.9	5.1	3.0	4.5	4.6	4.9	3.1	4.3	4.5	4.8	3.2	50.0
	52.0		4.5	4.8	3.0	4.1	4.3	4.5	3.0	4.0	4.1	4.4	3.1	52.0
	54.0		4.2	4.4	2.9		4.0	4.2	2.9	3.6	3.8	4.1	3.0	54.0
	56.0			4.1	2.8		3.7	3.9	2.9		3.5	3.8	2.9	56.0
	58.0			3.9	2.7		3.4	3.6	2.8		3.2	3.5	2.9	58.0
	60.0			3.6	2.7			3.4	2.7		2.9	3.2	2.8	60.0
	62.0				2.6			3.1	2.7			2.9	2.7	62.0
	64.0				2.6			2.9	2.6			2.6	2.7	64.0
	66.0				2.5				2.6			2.4	2.5	66.0
	68.0								2.5				2.3	68.0
	70.0												2.1	70.0
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Boom length (m)		51.8				54.9				57.9				Boom length (m)
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
Working radius (m)	14.0	14.9m/12.0				15.4m/12.0								14.0
	16.0	12.0	17.0m/12.0			12.0	17.5m/12.0			12.0				16.0
	18.0	12.0	12.0	19.1m/8.0		12.0	12.0	19.6m/8.0		12.0	18.1m/12.0			18.0
	20.0	12.0	12.0	8.0	21.2m/4.0	12.0	12.0	8.0	21.7m/4.0	12.0	12.0	20.1m/8.0		20.0
	22.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	22.2m/4.0	22.0
	24.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	24.0
	26.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	12.0	12.0	8.0	4.0	26.0
	28.0	11.6	11.9	8.0	4.0	11.4	11.7	8.0	4.0	11.2	11.5	8.0	4.0	28.0
	30.0	10.4	10.7	7.8	4.0	10.2	10.5	7.9	4.0	10.0	10.3	8.0	4.0	30.0
	32.0	9.4	9.7	7.5	4.0	9.2	9.5	7.6	4.0	9.0	9.3	7.7	4.0	32.0
	34.0	8.5	8.8	7.3	4.0	8.3	8.6	7.4	4.0	8.1	8.4	7.5	4.0	34.0
	36.0	7.7	8.0	7.1	4.0	7.5	7.8	7.2	4.0	7.3	7.6	7.3	4.0	36.0
	38.0	7.0	7.3	6.9	3.9	6.8	7.1	7.0	4.0	6.6	6.9	7.1	4.0	38.0
	40.0	6.4	6.6	6.7	3.8	6.2	6.4	6.8	3.9	6.0	6.2	6.6	3.9	40.0
	42.0	5.9	6.1	6.4	3.7	5.6	5.9	6.2	3.7	5.5	5.7	6.0	3.8	42.0
	44.0	5.4	5.6	5.9	3.6	5.1	5.4	5.7	3.6	4.9	5.2	5.5	3.7	44.0
	46.0	4.9	5.1	5.4	3.4	4.7	4.9	5.2	3.5	4.5	4.7	5.0	3.6	46.0
	48.0	4.5	4.7	5.0	3.4	4.3	4.5	4.8	3.4	4.0	4.3	4.6	3.5	48.0
	50.0	4.1	4.3	4.6	3.3	3.8	4.1	4.4	3.3	3.6	3.9	4.2	3.4	50.0
	52.0	3.7	4.0	4.2	3.2	3.4	3.7	4.0	3.2	3.2	3.4	3.9	3.3	52.0
	54.0	3.4	3.6	3.9	3.1	3.0	3.3	3.7	3.2	2.8	3.1	3.5	3.2	54.0
	56.0	3.0	3.3	3.6	3.0	2.7	3.0	3.3	3.1	2.4	2.7	3.1	3.1	56.0
	58.0		2.9	3.3	2.9	2.4	2.6	3.0	3.0	2.1	2.4	2.8	2.9	58.0
	60.0		2.6	3.0	2.9		2.3	2.7	2.8		2.1	2.4	2.6	60.0
	62.0		2.4	2.7	2.8		2.1	2.4	2.5			2.2	2.3	62.0
	64.0			2.4	2.5			2.1	2.3				2.0	64.0
	66.0			2.2	2.3				2.0					66.0
	68.0				2.0									68.0
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 10°)

Counterweight: 53.1 t

Unit: metric ton

Boom length (m)	61.0												Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5									Jib length (m)
16.0	16.5m/12.0												16.0
18.0	12.0	18.6m/12.0											18.0
20.0	12.0	12.0	20.7m/8.0										20.0
22.0	12.0	12.0	8.0	22.8m/4.0									22.0
24.0	12.0	12.0	8.0	4.0									24.0
26.0	12.0	12.0	8.0	4.0									26.0
28.0	11.1	11.4	8.0	4.0									28.0
30.0	9.9	10.2	8.0	4.0									30.0
32.0	8.9	9.1	7.8	4.0									32.0
34.0	8.0	8.2	7.6	4.0									34.0
36.0	7.2	7.4	7.4	4.0									36.0
38.0	6.5	6.7	7.1	4.0									38.0
40.0	5.8	6.1	6.4	4.0									40.0
42.0	5.3	5.5	5.9	3.9									42.0
44.0	4.8	5.0	5.4	3.8									44.0
46.0	4.3	4.5	4.9	3.7									46.0
48.0	3.8	4.1	4.5	3.6									48.0
50.0	3.3	3.6	4.1	3.5									50.0
52.0	2.9	3.2	3.6	3.4									52.0
54.0	2.5	2.8	3.2	3.3									54.0
56.0	2.2	2.5	2.9	3.0									56.0
58.0		2.1	2.5	2.7									58.0
60.0			2.2	2.4									60.0
62.0				2.1									62.0
Reeves	1	1	1	1									Reeves

Working radius (m) / Working radius (m)

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Fixed Jib Lifting Capacities (Without Main Hook Block)
(Jib Offset Angle : 30°)

Counterweight: 53.1 t

Unit: metric ton

Working radius (m)	Boom length (m)	24.4				27.4				30.5				Boom length (m)	Working radius (m)
	Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
	12.0	13.8m/10.0												12.0	
	14.0	10.0				14.3m/10.0				14.9m/10.0				14.0	
	16.0	10.0	17.7m/9.0			10.0				10.0				16.0	
	18.0	10.0	9.0			10.0	18.3m/9.0			10.0	18.8m/9.0			18.0	
	20.0	10.0	9.0	21.7m/6.0		10.0	9.0			10.0	9.0			20.0	
	22.0	10.0	9.0	6.0		10.0	9.0	22.2m/6.0		10.0	9.0	22.7m/6.0		22.0	
	24.0	10.0	9.0	6.0	25.6m/3.0	10.0	9.0	6.0		10.0	9.0	6.0		24.0	
	26.0	10.0	9.0	6.0	3.0	10.0	9.0	6.0	26.1m/3.0	10.0	9.0	6.0	26.6m/3.0	26.0	
	28.0	10.0	8.7	5.8	3.0	10.0	9.0	5.9	3.0	10.0	9.0	6.0	3.0	28.0	
	30.0	10.0	8.3	5.7	3.0	10.0	8.6	5.8	3.0	10.0	8.9	5.8	3.0	30.0	
	32.0	10.0	7.9	5.5	3.0	10.0	8.2	5.6	3.0	10.0	8.5	5.7	3.0	32.0	
	34.0	10.0	7.6	5.4	2.9	10.0	7.9	5.5	3.0	9.9	8.1	5.6	3.0	34.0	
	36.0		7.3	5.3	2.8	9.3	7.6	5.4	2.9	9.1	7.8	5.5	2.9	36.0	
	38.0		7.1	5.2	2.7		7.3	5.3	2.8	8.4	7.5	5.4	2.8	38.0	
	40.0		6.9	5.1	2.7		7.1	5.2	2.7	7.8	7.3	5.3	2.8	40.0	
	42.0			5.0	2.6		6.9	5.1	2.7		7.1	5.2	2.7	42.0	
	44.0			4.8	2.6			5.0	2.6		7.0	5.1	2.6	44.0	
	46.0			4.7	2.5			4.8	2.5		6.5	5.0	2.6	46.0	
	48.0				2.5			4.7	2.5			4.8	2.5	48.0	
	50.0				2.4				2.5			4.8	2.5	50.0	
	52.0				2.4				2.4			4.7	2.5	52.0	
	54.0								2.4				2.4	54.0	
	56.0												2.4	56.0	
	58.0												2.4	58.0	
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Working radius (m)	Boom length (m)	33.5				36.6				39.6				Boom length (m)	Working radius (m)
	Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
	14.0	15.4m/10.0				15.9m/10.0								14.0	
	16.0	10.0				10.0				16.5m/10.0				16.0	
	18.0	10.0	19.3m/9.0			10.0	19.9m/9.0			10.0				18.0	
	20.0	10.0	9.0			10.0	9.0			10.0	20.4m/9.0			20.0	
	22.0	10.0	9.0	23.2m/6.0		10.0	9.0	23.8m/6.0		10.0	9.0			22.0	
	24.0	10.0	9.0	6.0		10.0	9.0	6.0		10.0	9.0	24.3m/6.0		24.0	
	26.0	10.0	9.0	6.0	27.2m/3.0	10.0	9.0	6.0	27.7m/3.0	10.0	9.0	6.0		26.0	
	28.0	10.0	9.0	6.0	3.0	10.0	9.0	6.0	3.0	10.0	9.0	6.0	28.2m/3.0	28.0	
	30.0	10.0	9.0	5.9	3.0	10.0	9.0	6.0	3.0	10.0	9.0	6.0	3.0	30.0	
	32.0	10.0	8.7	5.8	3.0	10.0	9.0	5.8	3.0	10.0	9.0	5.9	3.0	32.0	
	34.0	9.8	8.4	5.6	3.0	9.6	8.6	5.7	3.0	9.5	8.9	5.8	3.0	34.0	
	36.0	9.0	8.1	5.5	3.0	8.8	8.3	5.6	3.0	8.7	8.5	5.6	3.0	36.0	
	38.0	8.3	7.8	5.4	2.9	8.1	8.0	5.5	2.9	7.9	8.2	5.5	3.0	38.0	
	40.0	7.6	7.5	5.3	2.8	7.4	7.8	5.4	2.8	7.3	7.7	5.4	2.9	40.0	
	42.0	7.1	7.3	5.2	2.7	6.9	7.3	5.3	2.8	6.7	7.1	5.4	2.8	42.0	
	44.0		6.9	5.2	2.7	6.3	6.7	5.2	2.7	6.2	6.6	5.3	2.7	44.0	
	46.0		6.4	5.1	2.6		6.2	5.2	2.7	5.7	6.1	5.2	2.7	46.0	
	48.0		6.0	5.0	2.6		5.8	5.1	2.6	5.3	5.7	5.2	2.6	48.0	
	50.0			4.9	2.5		5.4	5.0	2.6		5.3	5.1	2.6	50.0	
	52.0			4.8	2.5			4.9	2.5		4.9	5.0	2.5	52.0	
	54.0			4.7	2.5			4.8	2.5		4.5	4.8	2.5	54.0	
	56.0				2.4			4.6	2.5			4.5	2.5	56.0	
	58.0				2.4				2.4			4.1	2.5	58.0	
	60.0				2.4				2.4			3.9	2.4	60.0	
	62.0								2.4				2.4	62.0	
	64.0												2.4	64.0	
	66.0												2.4	66.0	
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Fixed Jib Lifting Capacities (Without Main Hook Block)
(Jib Offset Angle : 30°)

Counterweight: 53.1 t

Unit: metric ton

Boom length (m)	42.7				45.7				48.8				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
16.0	17.0m/10.0				17.5m/10.0								16.0
18.0	10.0				10.0				18.1m/10.0				18.0
20.0	10.0	20.9m/9.0			10.0	21.4m/9.0			10.0				20.0
22.0	10.0	9.0			10.0	9.0			10.0	9.0			22.0
24.0	10.0	9.0	24.8m/6.0		10.0	9.0	25.4m/6.0		10.0	9.0	25.9m/6.0		24.0
26.0	10.0	9.0	6.0		10.0	9.0	6.0		10.0	9.0	6.0		26.0
28.0	10.0	9.0	6.0	28.8m/3.0	10.0	9.0	6.0	29.3m/3.0	10.0	9.0	6.0	29.8m/3.0	28.0
30.0	10.0	9.0	6.0	3.0	10.0	9.0	6.0	3.0	10.0	9.0	6.0	3.0	30.0
32.0	10.0	9.0	5.9	3.0	10.0	9.0	6.0	3.0	10.0	9.0	6.0	3.0	32.0
34.0	9.3	9.0	5.8	3.0	9.1	9.0	5.9	3.0	9.0	9.0	5.9	3.0	34.0
36.0	8.5	8.7	5.7	3.0	8.3	8.8	5.8	3.0	8.2	8.7	5.8	3.0	36.0
38.0	7.8	8.3	5.6	3.0	7.6	8.1	5.7	3.0	7.5	8.0	5.7	3.0	38.0
40.0	7.1	7.6	5.5	2.9	7.0	7.4	5.6	2.9	6.8	7.3	5.6	3.0	40.0
42.0	6.6	7.0	5.4	2.8	6.4	6.8	5.5	2.9	6.2	6.7	5.5	2.9	42.0
44.0	6.1	6.5	5.3	2.8	5.8	6.3	5.4	2.8	5.7	6.2	5.4	2.8	44.0
46.0	5.6	6.0	5.3	2.7	5.4	5.8	5.3	2.8	5.2	5.7	5.4	2.8	46.0
48.0	5.1	5.5	5.2	2.7	4.9	5.3	5.2	2.7	4.8	5.2	5.3	2.7	48.0
50.0	4.8	5.1	5.1	2.6	4.6	4.9	5.2	2.7	4.4	4.8	5.1	2.7	50.0
52.0		4.7	5.0	2.6	4.2	4.6	4.8	2.6	4.1	4.4	4.7	2.6	52.0
54.0		4.4	4.6	2.5		4.2	4.5	2.6	3.7	4.1	4.4	2.6	54.0
56.0		4.1	4.3	2.5		3.9	4.1	2.5	3.4	3.8	4.0	2.6	56.0
58.0			4.0	2.5		3.6	3.8	2.5		3.5	3.7	2.5	58.0
60.0			3.7	2.4			3.6	2.5		3.1	3.4	2.5	60.0
62.0			3.5	2.4			3.3	2.4		2.8	3.2	2.5	62.0
64.0				2.4			3.0	2.4			2.8	2.4	64.0
66.0				2.4				2.4			2.6	2.4	66.0
68.0				2.4				2.4			2.3	2.4	68.0
70.0								2.4				2.3	70.0
72.0												2.1	72.0
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Working radius (m)

Boom length (m)	51.8				54.9				57.9				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
18.0	18.6m/10.0				19.1m/10.0				19.6m/10.0				18.0
20.0	10.0				10.0				10.0				20.0
22.0	10.0	22.5m/9.0			10.0	23.0m/9.0			10.0	23.6m/9.0			22.0
24.0	10.0	9.0			10.0	9.0			10.0	9.0			24.0
26.0	10.0	9.0	26.4m/6.0		10.0	9.0	26.9m/6.0		10.0	9.0	27.5m/6.0		26.0
28.0	10.0	9.0	6.0		10.0	9.0	6.0		10.0	9.0	6.0		28.0
30.0	10.0	9.0	6.0	30.3m/3.0	10.0	9.0	6.0	30.9m/3.0	10.0	9.0	6.0	31.4m/3.0	30.0
32.0	9.8	9.0	6.0	3.0	9.6	9.0	6.0	3.0	9.5	9.0	6.0	3.0	32.0
34.0	8.9	9.0	6.0	3.0	8.7	9.0	6.0	3.0	8.5	9.0	6.0	3.0	34.0
36.0	8.1	8.6	5.9	3.0	7.9	8.5	5.9	3.0	7.7	8.3	5.9	3.0	36.0
38.0	7.3	7.9	5.8	3.0	7.1	7.7	5.8	3.0	7.0	7.6	5.8	3.0	38.0
40.0	6.7	7.2	5.7	3.0	6.5	7.0	5.7	3.0	6.3	6.9	5.7	3.0	40.0
42.0	6.1	6.6	5.6	2.9	5.9	6.4	5.6	3.0	5.7	6.3	5.7	3.0	42.0
44.0	5.6	6.0	5.5	2.9	5.4	5.9	5.5	2.9	5.2	5.7	5.6	2.9	44.0
46.0	5.1	5.5	5.4	2.8	4.9	5.4	5.5	2.8	4.7	5.2	5.5	2.9	46.0
48.0	4.7	5.1	5.3	2.8	4.5	4.9	5.2	2.8	4.3	4.8	5.1	2.8	48.0
50.0	4.3	4.7	5.0	2.7	4.1	4.5	4.8	2.7	3.8	4.4	4.7	2.8	50.0
52.0	3.9	4.3	4.6	2.7	3.6	4.1	4.4	2.7	3.4	4.0	4.3	2.7	52.0
54.0	3.5	4.0	4.2	2.6	3.2	3.8	4.1	2.6	3.0	3.6	3.9	2.7	54.0
56.0	3.1	3.6	3.9	2.6	2.8	3.4	3.7	2.6	2.6	3.2	3.6	2.6	56.0
58.0	2.8	3.3	3.6	2.5	2.5	3.0	3.4	2.6	2.3	2.8	3.2	2.6	58.0
60.0		2.9	3.3	2.5	2.2	2.7	3.1	2.5	2.0	2.5	2.9	2.6	60.0
62.0		2.6	3.0	2.5		2.4	2.7	2.5		2.2	2.5	2.5	62.0
64.0		2.3	2.7	2.5		2.1	2.4	2.5			2.2	2.5	64.0
66.0			2.4	2.4			2.1	2.4				2.2	66.0
68.0			2.1	2.4				2.1					68.0
70.0				2.1									70.0
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Working radius (m)

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Fixed Jib Lifting Capacities (Without Main Hook Block)
(Jib Offset Angle : 30°)

Counterweight: 53.1 t

Unit: metric ton

Boom length (m)	61.0												Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5									Jib length (m)
20.0	20.1m/10.0												20.0
22.0	10.0												22.0
24.0	10.0	24.1m/9.0											24.0
26.0	10.0	9.0											26.0
28.0	10.0	9.0	6.0										28.0
30.0	10.0	9.0	6.0	31.9m/3.0									30.0
32.0	9.3	9.0	6.0	3.0									32.0
34.0	8.4	9.0	6.0	3.0									34.0
36.0	7.6	8.2	6.0	3.0									36.0
38.0	6.8	7.4	5.9	3.0									38.0
40.0	6.2	6.8	5.8	3.0									40.0
42.0	5.6	6.1	5.7	3.0									42.0
44.0	5.1	5.6	5.6	3.0									44.0
46.0	4.6	5.1	5.5	2.9									46.0
48.0	4.1	4.6	5.0	2.8									48.0
50.0	3.6	4.2	4.6	2.8									50.0
52.0	3.2	3.8	4.2	2.7									52.0
54.0	2.8	3.4	3.8	2.7									54.0
56.0	2.4	3.0	3.4	2.7									56.0
58.0	2.0	2.6	3.0	2.6									58.0
60.0		2.3	2.7	2.6									60.0
62.0		2.0	2.3	2.5									62.0
64.0			2.0	2.3									64.0
66.0				2.0									66.0
Reeves	1	1	1	1									Reeves

Working radius (m) / Working radius (m)

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Long Boom Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

Working radius (m) \ Boom length (m)	61.0	64.0	67.1	70.1	73.2	76.2	79.2	Boom length (m) \ Working radius (m)
12.0	12.3m/24.0	12.8m/24.0	13.3m/24.0	13.9m/24.0				**12.0**
14.0	24.0	24.0	24.0	24.0	14.4m/22.1	14.9m/18.7	15.4m/16.3	**14.0**
16.0	24.0	24.0	24.0	24.0	20.9	17.9	15.9	**16.0**
18.0	22.8	22.6	22.5	22.5	19.5	16.7	14.8	**18.0**
20.0	19.7	19.5	19.5	19.4	18.3	15.7	13.9	**20.0**
22.0	17.3	17.1	17.0	17.0	16.9	14.8	13.1	**22.0**
24.0	15.3	15.1	15.0	15.0	14.9	14.0	12.3	**24.0**
26.0	13.7	13.5	13.4	13.4	13.3	13.1	11.7	**26.0**
28.0	12.3	12.1	12.0	12.0	11.9	11.7	11.2	**28.0**
30.0	11.1	10.9	10.8	10.8	10.7	10.6	10.5	**30.0**
32.0	10.1	9.9	9.8	9.8	9.7	9.5	9.5	**32.0**
34.0	9.2	9.0	8.9	8.9	8.8	8.7	8.6	**34.0**
36.0	8.4	8.3	8.2	8.1	8.0	7.9	7.8	**36.0**
38.0	7.8	7.6	7.5	7.5	7.4	7.2	7.2	**38.0**
40.0	7.2	7.0	6.9	6.8	6.7	6.6	6.5	**40.0**
42.0	6.6	6.4	6.3	6.3	6.2	6.0	6.0	**42.0**
44.0	6.1	5.9	5.8	5.8	5.7	5.5	5.5	**44.0**
46.0	5.7	5.5	5.4	5.3	5.2	5.1	5.0	**46.0**
48.0	5.3	5.1	5.0	4.9	4.8	4.7	4.6	**48.0**
50.0	4.9	4.7	4.6	4.6	4.5	4.3	4.3	**50.0**
52.0	4.6	4.4	4.3	4.2	4.1	4.0	3.9	**52.0**
54.0	4.3	4.1	3.9	3.9	3.8	3.6	3.5	**54.0**
56.0	54.4m/4.2	3.8	3.7	3.6	3.5	3.3	3.2	**56.0**
58.0		57.0m/3.6	3.4	3.3	3.2	2.9	2.9	**58.0**
60.0			59.7m/3.1	3.0	2.9	2.6	2.6	**60.0**
62.0				2.8	2.6	2.4	2.3	**62.0**
64.0				62.3m/2.7	2.4	2.1	2.0	**64.0**
66.0					64.9m/2.2			**66.0**
Reeves	2	2	2	2	2	2	2	**Reeves**

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

SUPPLEMENTAL DATA

- Ratings according to Japanese Construction Codes for Mobile Cranes.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- 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.
- Tower and jib inserts and guy lines must be arranged as shown in the “Operator’s Manual”.
- Tower hoist reeving is 12 part line.
- Jib hoist reeving is 8 part line.
- Gantry must be in raised position for all conditions.
- Tower and jib backstops are required for all tower and jib combinations.
- Ratings inside of boxes ▭ are limited by strength of materials.
- The tower should be erected over the front of the crawlers, not laterally.
- When erecting and lowering the tower length of 51.7 m, the blocks for erection must be placed at the end of the crawlers.
- The minimum rated load is 2.0 (ton).
- The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from tower jib ratings shown.
- One part of line on hook is not allowed to use for 22.9 m jib length.

Tower and jib combinations

Tower Length (m)	Jib Length (m) 22.9	25.9	29.0	32.0	35.1	38.1	41.1	44.2
30.4	○*	○	×	×	×	×	×	×
33.4	○*	○	○	×	×	×	×	×
36.5	○*	○	○	○	×	×	×	×
39.5	○*	○	○	○	○	×	×	×
42.5	○*	○	○	○	○	○	×	×
45.6	○*	○	○	○	○	○	○	×
48.6	○*	○	○	○	○	○	○	○
51.7	○*	○	○	○	○	○	○	○

○: Combinations which is allowed.
○*: One part of line on hook is not allowed to use.

- Maximum hoist load for number of reeving parts of line for hoist rope.

For jib hook

No. of Parts of Line	1	2
Maximum Loads (kN)	118	196
Maximum Loads (t)	12.0	20.0

Weight of hook block		
Hook Block	35 t	Ball Hook
Weight (t)	0.9	0.45

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

LIFTING CAPACITIES

Tower Jib Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

30.4m Tower Length

Tower length (m)	30.4								Tower length (m)
Jib length (m)	22.9				25.9				Jib length (m)
Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
9.4	20.0								9.4
10.0	20.0				10.2m/20.0				10.0
12.0	20.0				20.0				12.0
14.0	20.0				20.0				14.0
15.0	20.0				20.0				15.0
16.0	18.7				18.7				16.0
18.0	16.6	18.4m/16.3			16.6	19.7m/15.2			18.0
20.0	15.0	15.0			15.0	15.0			20.0
22.0	13.3	13.6			13.6	13.6			22.0
24.0	9.9	12.5			12.1	12.5			24.0
26.0	25.4m/7.1	11.5	26.8m/11.1		9.5	11.5			26.0
28.0		10.7	10.7		6.7	10.7	28.6m/10.4		28.0
30.0		10.0	10.0		28.3m/6.1	10.0	10.0		30.0
32.0		30.6m/9.4	9.3			9.3	9.3		32.0
34.0			8.8	34.5m/8.5		33.5m/7.7	8.8		34.0
36.0			35.6m/8.4	7.9			8.3	36.7m/7.7	36.0
38.0				7.5			7.8	7.3	38.0
40.0				7.0			38.6m/7.7	6.9	40.0
42.0				40.3m/6.9				6.4	42.0
44.0								43.2m/6.2	44.0
Reeves	2	2	2	2	2	2	2	2	Reeves

Working radius (m)

33.4m Tower Length

Tower length (m)	33.4												Tower length (m)
Jib length (m)	22.9				25.9				29.0				Jib length (m)
Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
9.4	20.0												9.4
10.0	20.0				10.2m/20.0				11.0m/20.0				10.0
12.0	20.0				20.0				20.0				12.0
14.0	20.0				20.0				20.0				14.0
15.0	20.0				20.0				20.0				15.0
16.0	18.7				18.7				18.7				16.0
18.0	16.6	18.9m/15.8			16.6				16.6				18.0
20.0	15.0	15.0			15.0	20.2m/14.8			15.0	21.5m/13.9			20.0
22.0	13.4	13.6			13.6	13.6			13.6	13.6			22.0
24.0	10.0	12.5			12.3	12.5			12.5	12.5			24.0
26.0	25.4m/7.2	11.5	27.9m/10.7		9.7	11.5			11.2	11.5			26.0
28.0		10.7	10.7		6.9	10.7	29.6m/10.1		9.1	10.7			28.0
30.0		10.0	10.0		28.3m/6.2	10.0	10.0		7.0	10.0	31.4m/9.5		30.0
32.0		31.1m/9.5	9.3			9.3	9.3		31.2m/5.3	9.3	9.3		32.0
34.0			8.8			8.6	8.8			8.8	8.8		34.0
36.0			8.3	7.6		34.1m/8.1	8.3			8.3	8.3		36.0
38.0			36.7m/8.1	7.0			7.8	38.2m/6.9		37.0m/7.0	7.8		38.0
40.0				6.6			39.6m/7.5	6.4			7.4	40.3m/6.3	40.0
42.0				41.8m/6.2				6.1			6.9	5.8	42.0
44.0								5.7			42.6m/6.8	5.6	44.0
46.0								44.8m/5.6				5.2	46.0
48.0												47.7m/5.0	48.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

Working radius (m)

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Tower Jib Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

36.5m Tower Length

Working radius (m)	Tower length (m)	36.5																Tower length (m)
	Jib length (m)	22.9				25.9				29.0				32.0				Jib length (m)
	Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
9.4		20.0																9.4
10.0		20.0				10.2m/20.0				11.0m/20.0				11.8m/20.0				10.0
12.0		20.0				20.0				20.0				20.0				12.0
14.0		20.0				20.0				20.0				19.6				14.0
15.0		20.0				20.0				20.0				19.1				15.0
16.0		18.7				18.7				18.7				18.6				16.0
18.0		16.6	19.4m/15.4			16.6				16.6				16.6				18.0
20.0		15.0	15.0			15.0	20.7m/14.4			15.0				15.0				20.0
22.0		13.5	13.6			13.6	13.6			13.6	13.6			13.6	23.3m/12.8			22.0
24.0		10.1	12.5			12.4	12.5			12.5	12.5			12.5	12.5			24.0
26.0		25.4m/7.3	11.5			9.8	11.5			11.2	11.5			11.5	11.5			26.0
28.0			10.7	28.9m/10.3		6.9	10.7			9.2	10.7			10.2	10.7			28.0
30.0			10.0	10.0		28.3m/6.3	10.0	30.7m/9.7		7.1	10.0			8.6	10.0			30.0
32.0			31.7m/9.4	9.3			9.3	9.3		31.2m/5.4	9.3	32.4m/9.2		6.9	9.3			32.0
34.0				8.8			8.8	8.8			8.8	8.7		5.0	8.8	34.2m/8.6		34.0
36.0				8.3	37.6m/6.8		34.6m/8.2	8.3			8.3	8.2		34.2m/4.6	8.3	8.0		36.0
38.0				37.7m/7.9	6.6			7.8	39.7m/6.2		37.6m/7.1	7.7			7.8	7.6		38.0
40.0					6.2			7.2	6.0			7.2	41.9m/5.6		7.0	7.1		40.0
42.0					5.8			40.7m/7.1	5.7			6.7	5.5		40.5m/6.2	6.6		42.0
44.0					43.3m/5.6				5.4			43.6m/6.3	5.2			6.2	5.0	44.0
46.0									5.0				4.9			5.9	4.7	46.0
48.0									46.3m/5.0				4.6			46.5m/5.7	4.6	48.0
50.0													49.2m/4.4				4.3	50.0
52.0																	4.0	52.0
54.0																	52.2m/3.8	54.0
	Reeves	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

39.5m Tower Length

Working radius (m)	Tower length (m)	39.5																				Tower length (m)
	Jib length (m)	22.9				25.9				29.0				32.0				35.1				Jib length (m)
	Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
9.4		20.0																				9.4
10.0		20.0				10.2m/20.0				11.0m/20.0				11.8m/20.0								10.0
12.0		20.0				20.0				20.0				20.0				12.5m/16.5				12.0
14.0		20.0				20.0				20.0				19.6				16.3				14.0
15.0		20.0				20.0				20.0				19.1				16.0				15.0
16.0		18.7				18.7				18.7				18.6				15.7				16.0
18.0		16.6				16.6				16.6				16.6				15.3				18.0
20.0		15.0	15.0			15.0	21.2m/14.1			15.0				15.0				14.9				20.0
22.0		13.6	13.6			13.6	13.6			13.6	22.5m/13.3			13.6	23.8m/12.6			13.6				22.0
24.0		10.2	12.5			12.4	12.5			12.5	12.5			12.5	12.5			12.5	25.1m/11.9			24.0
26.0		25.4m/7.4	11.5			9.8	11.5			11.3	11.5			11.5	11.5			11.5	11.5			26.0
28.0			10.7			7.0	10.7			9.3	10.7			10.2	10.7			10.7	10.7			28.0
30.0			10.0	10.0		28.3m/6.3	10.0	31.7m/9.4		7.2	10.0			8.6	10.0			9.4	10.0			30.0
32.0			9.3	9.3			9.3	9.2		31.2m/5.4	9.3	33.5m/8.6		6.9	9.3			8.0	9.3			32.0
34.0			32.2m/9.3	8.7			8.8	8.6			8.8	8.4		5.0	8.8	35.2m/8.0		6.7	8.8			34.0
36.0				8.1			35.1m/8.2	8.0			8.3	7.9		34.2m/4.7	8.3	7.7		5.2	8.3	36.9m/7.4		36.0
38.0				7.5	39.1m/6.0			7.5			7.5	7.3			7.8	7.2		37.1m/4.1	7.8	7.0		38.0
40.0				38.8m/7.3	5.7			7.0	41.2m/5.3		38.1m/7.1	6.9			7.4	6.8			7.5	6.7		40.0
42.0					5.4			41.7m/6.5	5.2			6.4	43.4m/4.7		41.0m/6.2	6.3			7.1	6.3		42.0
44.0					5.1				5.0			6.0	4.7			6.0	45.5m/4.3		5.4	5.9		44.0
46.0					44.9m/4.8				4.7			44.6m/5.9	4.5			5.6	4.3			5.5	47.7m/4.0	46.0
48.0									47.8m/4.4				4.3			47.6m/5.3	4.2			5.2	4.0	48.0
50.0													4.0				3.9			4.9	3.8	50.0
52.0													50.8m/3.9				3.7			50.5m/4.8	3.6	52.0
54.0																	53.7m/3.5				3.4	54.0
56.0																					3.2	56.0
58.0																					56.6m/3.1	58.0
	Reeves	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Tower Jib Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

42.5m Tower Length

Tower length (m)	42.5												Tower length (m)
Jib length (m)	22.9				25.9				29.0				Jib length (m)
Working radius (m) / Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
9.4	20.0												9.4
10.0	20.0				10.2m/20.0				11.0m/20.0				10.0
12.0	20.0				20.0				20.0				12.0
14.0	20.0				20.0				20.0				14.0
15.0	20.0				20.0				20.0				15.0
16.0	18.7				18.7				18.7				16.0
18.0	16.6				16.6				16.6				18.0
20.0	15.0	20.5m/14.6			15.0	21.8m/13.7			15.0				20.0
22.0	13.6	13.6			13.6	13.6			13.6	23.1m/12.9			22.0
24.0	10.3	12.5			12.5	12.5			12.5	12.5			24.0
26.0	25.4m/7.5	11.5			9.9	11.5			11.3	11.5			26.0
28.0		10.7			7.1	10.7			9.3	10.7			28.0
30.0		10.0	31.0m/9.5		28.3m/6.4	10.0			7.2	10.0			30.0
32.0		9.3	9.0			9.3	32.7m/8.7		31.2m/5.5	9.3			32.0
34.0		32.7m/9.1	8.4			8.8	8.2			8.8	34.5m/8.0		34.0
36.0			7.8			35.7m/8.2	7.7			8.3	7.5		36.0
38.0			7.3				7.2			7.8	7.1		38.0
40.0			39.8m/6.8	40.6m/5.2			6.7			38.6m/7.1	6.6		40.0
42.0				5.0			6.3	42.8m/4.6			6.2		42.0
44.0				4.7			42.7m/6.1	4.5			5.8	44.9m/4.2	44.0
46.0				4.4				4.3			45.7m/5.4	4.1	46.0
48.0				46.4m/4.3				4.1				3.9	48.0
50.0								49.3m/3.9				3.7	50.0
52.0												3.5	52.0
54.0												52.3m/3.4	54.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

Tower length (m)	42.5												Tower length (m)
Jib length (m)	32.0				35.1				38.1				Jib length (m)
Working radius (m) / Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
10.0	11.8m/20.0												10.0
12.0	20.0				12.5m/16.5				13.3m/13.6				12.0
14.0	19.5				16.2				13.6				14.0
15.0	19.0				16.0				13.4				15.0
16.0	18.5				15.7				13.1				16.0
18.0	16.6				15.3				12.7				18.0
20.0	15.0				14.8				12.3				20.0
22.0	13.6				13.6				11.9				22.0
24.0	12.5	24.4m/12.2			12.5	25.6m/11.7			11.6				24.0
26.0	11.5	11.5			11.5	11.5			11.2	26.9m/11.1			26.0
28.0	10.3	10.7			10.7	10.7			10.5	10.7			28.0
30.0	8.7	10.0			9.4	10.0			9.6	10.0			30.0
32.0	7.0	9.3			8.0	9.3			8.5	9.3			32.0
34.0	5.1	8.8			6.7	8.8			7.4	8.8			34.0
36.0	34.2m/4.7	8.3	36.2m/7.4		5.3	8.3			6.3	8.3			36.0
38.0		7.8	6.8		37.1m/4.1	7.8	6.8		5.1	7.8	39.7m/6.3		38.0
40.0		7.5	6.5			7.5	6.4		3.7	7.5	6.1		40.0
42.0		41.5m/6.2	6.1			7.1	6.0		40.1m/3.5	7.1	5.9		42.0
44.0			5.7			6.1	5.6			6.7	5.5		44.0
46.0			5.4	47.1m/3.8		44.5m/5.4	5.3			5.9	5.2		46.0
48.0			5.0	3.7			5.0	49.2m/3.4		47.4m/4.7	4.9		48.0
50.0			48.6m/4.9	3.6			4.7	3.4			4.6	51.4m/3.2	50.0
52.0				3.4			51.6m/4.4	3.3			4.3	3.1	52.0
54.0				3.2				3.1			4.1	3.0	54.0
56.0				55.2m/3.0				2.9			54.5m/3.8	2.8	56.0
58.0								2.8				2.6	58.0
60.0								58.2m/2.7				2.5	60.0
62.0												61.1m/2.4	62.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Tower Jib Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

45.6m Tower Length

Tower length (m)	45.6																Tower length (m)
Jib length (m)	22.9				25.9				29.0				32.0				Jib length (m)
Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
9.4	20.0																9.4
10.0	20.0				10.2m/20.0				11.0m/20.0				11.8m/20.0				10.0
12.0	20.0				20.0				20.0				20.0				12.0
14.0	20.0				20.0				20.0				19.5				14.0
15.0	20.0				20.0				20.0				19.0				15.0
16.0	18.7				18.7				18.7				18.5				16.0
18.0	16.6				16.6				16.6				16.6				18.0
20.0	15.0	21.0m/14.2			15.0				15.0				15.0				20.0
22.0	13.6	13.6			13.6	22.3m/13.4			13.6	23.6m/12.7			13.6				22.0
24.0	10.3	12.5			12.5	12.5			12.5	12.5			12.5	24.9m/12.0			24.0
26.0	25.4m/7.5	11.5			9.9	11.5			11.3	11.5			11.5	11.5			26.0
28.0		10.7			7.1	10.7			9.3	10.7			10.3	10.7			28.0
30.0		10.0			28.3m/6.4	10.0			7.2	10.0			8.7	10.0			30.0
32.0		9.3	8.7			9.3	33.8m/8.0		31.2m/5.5	9.3			7.0	9.3			32.0
34.0		33.2m/9.0	8.0			8.8	7.8			8.8	35.5m/7.4		5.2	8.8			34.0
36.0			7.5			8.3	7.4			8.3	7.1		34.2m/4.8	8.3	37.3m/6.8		36.0
38.0			7.0			36.2m/8.2	6.9			7.8	6.8			7.8	6.5		38.0
40.0			6.5				6.4			39.1m/7.1	6.3			7.5	6.2		40.0
42.0			40.8m/6.3	42.1m/4.4			6.0				5.9			6.5	5.8		42.0
44.0				4.3			43.8m/5.6	44.3m/4.0			5.5			42.1m/6.2	5.5		44.0
46.0				4.1				3.9			5.2	46.4m/3.6			5.1		46.0
48.0				47.9m/3.9				3.7			46.7m/5.0	3.5			4.8	48.6m/3.3	48.0
50.0								3.5				3.4			49.7m/4.4	3.2	50.0
52.0								50.9m/3.4				3.2				3.1	52.0
54.0												53.8m/3.0				2.9	54.0
56.0																2.7	56.0
58.0																56.7m/2.6	58.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

Working radius (m)

Tower length (m)	45.6											Tower length (m)
Jib length (m)	35.1				38.1				41.1			Jib length (m)
Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	Tower angle
12.0	12.5m/16.5				13.3m/13.6							12.0
14.0	16.2				13.6				14.1m/10.7			14.0
15.0	16.0				13.3				10.7			15.0
16.0	15.7				13.1				10.5			16.0
18.0	15.2				12.7				10.2			18.0
20.0	14.8				12.3				9.8			20.0
22.0	13.6				11.9				9.5			22.0
24.0	12.5				11.6				9.2			24.0
26.0	11.5	26.2m/11.4			11.1	27.5m/10.9			8.9			26.0
28.0	10.7	10.7			10.5	10.7			8.6	28.7m/9.8		28.0
30.0	9.4	10.0			9.6	10.0			8.3	9.6		30.0
32.0	8.1	9.3			8.5	9.3			7.8	9.3		32.0
34.0	6.7	8.8			7.4	8.8			7.3	8.8		34.0
36.0	5.3	8.3			6.3	8.3			6.8	8.3		36.0
38.0	37.1m/4.1	7.8	39.0m/6.3		5.1	7.8			6.2	7.8		38.0
40.0		7.5	6.0		3.8	7.5	40.8m/5.7		5.2	7.5		40.0
42.0		7.1	5.7		40.1m/3.5	7.1	5.4		4.1	7.1	42.5m/5.4	42.0
44.0		6.8	5.4			6.7	5.2		43.0m/3.2	6.6	5.0	44.0
46.0		45.0m/5.4	5.1			6.2	4.9			6.2	4.8	46.0
48.0			4.8			4.7	4.6			5.8	4.5	48.0
50.0			4.5	50.7m/3.0			4.4			5.2	4.3	50.0
52.0			4.2	2.9			4.1	52.9m/2.7		50.9m/4.3	4.0	52.0
54.0			52.6m/3.9	2.8			3.9	2.6			3.8	54.0
56.0				2.7			55.6m/3.4	2.5			3.5	56.0
58.0				2.5				2.4			3.3	58.0
60.0				59.7m/2.3				2.2			58.5m/3.1	60.0
62.0								2.1				62.0
64.0								62.6m/2.0				64.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	Reeves

Working radius (m)

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

LIFTING CAPACITIES

Tower Jib Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

48.6m Tower Length

Tower length (m)	48.6																Tower length (m)
Jib length (m)	22.9				25.9				29.0				32.0				Jib length (m)
Working radius (m) / Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
9.4	20.0																9.4
10.0	20.0				10.2m/20.0				11.0m/20.0				11.8m/19.9				10.0
12.0	20.0				20.0				20.0				19.9				12.0
14.0	20.0				20.0				19.5				18.6				14.0
15.0	20.0				19.8				18.9				18.0				15.0
16.0	18.7				18.7				18.3				17.5				16.0
18.0	16.6				16.6				16.6				16.5				18.0
20.0	15.0	21.5m/13.9			15.0				15.0				15.0				20.0
22.0	13.6	13.6			13.6	22.8m/13.1			13.6				13.6				22.0
24.0	10.4	12.5			12.5	12.5			12.5	24.1m/12.4			12.5	25.4m/11.8			24.0
26.0	25.4m/7.5	11.5			10.0	11.5			11.4	11.5			11.5	11.5			26.0
28.0		10.7			7.1	10.7			9.4	10.7			10.3	10.7			28.0
30.0		10.0			28.3m/6.4	10.0			7.3	10.0			8.7	10.0			30.0
32.0		9.3	33.1m/8.0			9.3			31.2m/5.5	9.3			7.1	9.3			32.0
34.0		33.8m/8.8	7.6			8.8	34.8m/7.4			8.8			5.2	8.8			34.0
36.0			7.2			8.3	6.9			8.3	36.6m/6.8		34.2m/4.8	8.3			36.0
38.0			6.7			36.7m/8.1	6.6			7.8	6.3			7.8	38.3m/6.2		38.0
40.0			6.3				6.2			39.7m/7.1	6.0			7.3	5.8		40.0
42.0			41.9m/5.8	43.7m/3.8			5.8				5.6			6.7	5.5		42.0
44.0				3.8			5.4	45.8m/3.4			5.3			42.6m/6.2	5.2		44.0
46.0				3.7			44.8m/5.2	3.4			5.0				4.9		46.0
48.0				3.4				3.3			47.8m/4.5	3.1			4.6		48.0
50.0				49.4m/3.1				3.1				3.0			4.3	50.1m/2.7	50.0
52.0								2.9				2.8			50.7m/4.0	2.6	52.0
54.0								52.4m/2.8				2.6				2.5	54.0
56.0												55.3m/2.4				2.4	56.0
58.0																2.2	58.0
60.0																58.3m/2.1	60.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

Tower length (m)	48.6														Tower length (m)
Jib length (m)	35.1				38.1			41.1			44.2				Jib length (m)
Working radius (m) / Tower angle	90°	80°	70°	60°	90°	80°	70°	90°	80°	70°	90°	80°	70°		Tower angle
12.0	12.5m/16.5				13.3m/13.6										12.0
14.0	16.2				13.6			14.1m/10.7			14.9m/9.1				14.0
15.0	15.9				13.3			10.7			9.1				15.0
16.0	15.7				13.1			10.5			8.9				16.0
18.0	15.2				12.7			10.1			8.6				18.0
20.0	14.8				12.3			9.8			8.3				20.0
22.0	13.6				11.9			9.5			8.0				22.0
24.0	12.5				11.5			9.2			7.7				24.0
26.0	11.5	26.7m/11.2			11.1			8.9			7.4				26.0
28.0	10.7	10.7			10.5	10.7		8.6	29.3m/9.8		7.2				28.0
30.0	9.4	10.0			9.6	10.0		8.3	9.6		6.9	30.6m/8.0			30.0
32.0	8.1	9.3			8.5	9.3		7.8	9.2		6.7	7.8			32.0
34.0	6.7	8.8			7.4	8.8		7.3	8.8		6.4	7.6			34.0
36.0	5.3	8.3			6.3	8.3		6.8	8.3		6.0	7.3			36.0
38.0	37.1m/4.1	7.8			5.1	7.8		6.2	7.8		5.6	7.1			38.0
40.0		7.5	40.1m/5.7		3.8	7.5	41.8m/5.2	5.2	7.3		5.2	6.9			40.0
42.0		7.1	5.3		40.1m/3.5	6.9	5.2	4.1	6.8	43.6m/4.8	4.8	6.7			42.0
44.0		6.5	5.1			6.5	5.0	43.0m/3.2	6.4	4.7	4.0	6.2	45.3m/4.4		44.0
46.0		45.6m/5.4	4.8			6.0	4.7		5.9	4.6	2.8	5.8	4.3		46.0
48.0			4.5			5.5	4.4		5.5	4.3		5.5	4.1		48.0
50.0			4.2			48.5m/4.7	4.1		5.1	4.0		5.1	3.9		50.0
52.0			4.0	52.3m/2.4			3.8		51.4m/4.3	3.7		4.7	3.6		52.0
54.0			53.7m/3.5	2.3			3.6			3.5		4.3	3.4		54.0
56.0				2.2			3.4			3.3		54.4m/3.8	3.1		56.0
58.0				2.1			56.6m/3.3			3.0			2.9		58.0
60.0				2.0						59.6m/2.8			2.7		60.0
62.0													2.5		62.0
64.0													62.5m/2.4		64.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	2		Reeves

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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Tower Jib Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

51.7m Tower Length

Tower length (m)	51.7																Tower length (m)
Jib length (m)	22.9				25.9				29.0				32.0				Jib length (m)
Tower angle	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	Tower angle
9.4	20.0																9.4
10.0	20.0				10.2m/20.0				11.0m/20.0				11.8m/18.6				10.0
12.0	20.0				20.0				19.4				18.6				12.0
14.0	20.0				19.2				18.2				17.4				14.0
15.0	20.0				18.6				17.7				16.8				15.0
16.0	18.7				18.1				17.2				16.4				16.0
18.0	16.6				16.6				16.3				15.5				18.0
20.0	15.0				15.0				15.0				14.7				20.0
22.0	13.6	22.1m/13.5			13.6	23.4m/12.8			13.6				13.6				22.0
24.0	10.4	12.5			12.5	12.5			12.5	24.7m/12.1			12.5	25.9m/11.5			24.0
26.0	25.4m/7.6	11.5			10.0	11.5			11.4	11.5			11.5	11.5			26.0
28.0		10.7			7.2	10.7			9.4	10.7			10.3	10.7			28.0
30.0		10.0			28.3m/6.5	10.0			7.3	10.0			8.7	10.0			30.0
32.0		9.3				9.3			31.2m/5.5	9.3			7.1	9.3			32.0
34.0		8.8	34.1m/7.3			8.8	35.9m/6.6			8.8			5.2	8.8			34.0
36.0		34.3m/8.7	6.7			8.3	6.5			8.3	37.6m/6.0		34.2m/4.8	8.3			36.0
38.0			6.3			37.3m/8.2	6.2			7.6	5.9			7.8	39.4m/5.4		38.0
40.0			5.9				5.8			6.9	5.7			7.4	5.4		40.0
42.0			5.5				5.4			40.2m/6.8	5.3			6.8	5.2		42.0
44.0			42.9m/5.2	45.2m/3.3			5.1				5.0			43.1m/6.2	4.9		44.0
46.0				3.2			45.9m/4.8	47.3m/3.0			4.7				4.6		46.0
48.0				3.1				2.9			4.4	49.5m/2.6			4.3		48.0
50.0				2.9				2.8			48.8m/4.2	2.6			4.0	51.6m/2.2	50.0
52.0				51.0m/2.8				2.6				2.5			51.8m/3.7	2.2	52.0
54.0								53.9m/2.4				2.3				2.1	54.0
56.0												2.1				2.0	56.0
58.0												56.8m/2.0					58.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

Working radius (m)

Tower length (m)	51.7												Tower length (m)
Jib length (m)	35.1			38.1			41.1			44.2			Jib length (m)
Tower angle	90°	80°	70°	90°	80°	70°	90°	80°	70°	90°	80°	70°	Tower angle
12.0	12.5m/16.5			13.3m/13.6									12.0
14.0	16.2			13.6			14.1m/10.7			14.9m/9.1			14.0
15.0	15.9			13.3			10.7			9.1			15.0
16.0	15.6			13.1			10.5			8.9			16.0
18.0	14.7			12.6			10.1			8.6			18.0
20.0	14.0			12.2			9.8			8.3			20.0
22.0	13.4			11.9			9.5			8.0			22.0
24.0	12.5			11.5			9.1			7.7			24.0
26.0	11.5	27.2m/10.7		11.1			8.9			7.4			26.0
28.0	10.7	10.3		10.4	28.5m/10.0		8.6	29.8m/8.5		7.1			28.0
30.0	9.4	9.9		9.6	9.1		8.3	8.5		6.9	31.1m/8.0		30.0
32.0	8.1	9.3		8.5	8.8		7.8	8.2		6.7	7.6		32.0
34.0	6.8	8.8		7.4	8.5		7.3	7.9		6.4	7.3		34.0
36.0	5.3	8.3		6.3	8.2		6.8	7.6		6.0	7.1		36.0
38.0	37.1m/4.2	7.8		5.2	7.7		6.3	7.4		5.6	6.8		38.0
40.0		7.3	41.1m/4.9	3.8	7.1		5.2	7.0		5.2	6.6		40.0
42.0		6.8	4.9	40.1m/3.5	6.6	42.9m/4.4	4.1	6.5		4.8	6.4		42.0
44.0		6.3	4.8		6.2	4.4	43.0m/3.2	6.1	44.6m/4.2	4.0	5.9		44.0
46.0		5.7	4.5		5.7	4.3		5.7	4.0	2.8	5.5	46.4m/3.8	46.0
48.0		46.1m/5.4	4.2		5.3	4.0		5.3	3.8		5.2	3.6	48.0
50.0			3.9		49.0m/4.7	3.7		4.9	3.6		4.8	3.4	50.0
52.0			3.6			3.5		4.3	3.3		4.5	3.2	52.0
54.0			3.4			3.2			3.1		4.2	3.0	54.0
56.0			54.7m/3.3			3.0			2.9		54.9m/3.8	2.8	56.0
58.0						57.6m/2.8			2.7			2.6	58.0
60.0									2.5			2.4	60.0
62.0									60.6m/2.4			2.2	62.0
64.0												63.5m/2.0	64.0
Reeves	2	2	2	2	2	2	1	1	1	1	1	1	Reeves

Working radius (m)

Note:

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

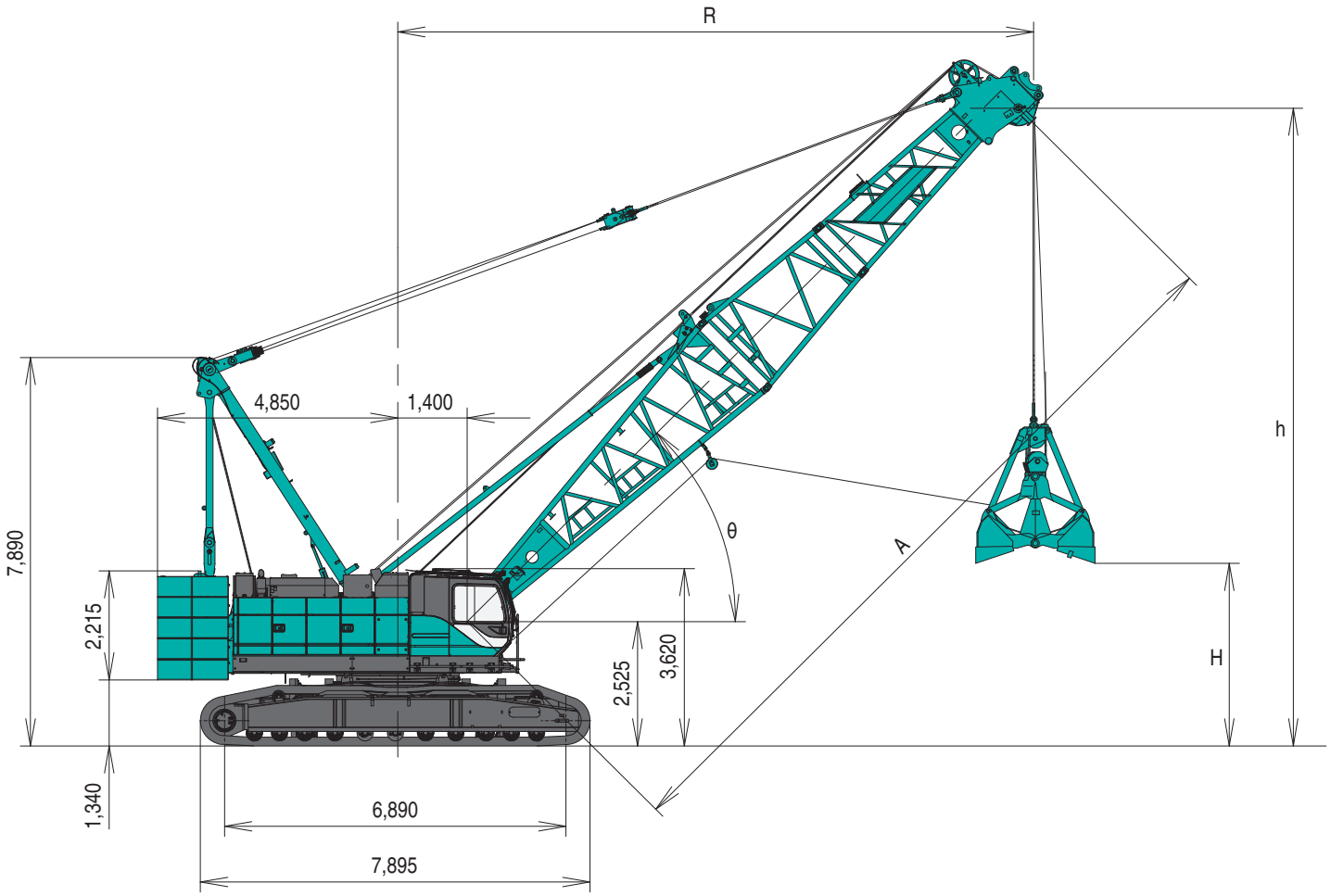
Ratings shown in [ ] are determined by the strength of the tower or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Clamshell Specification

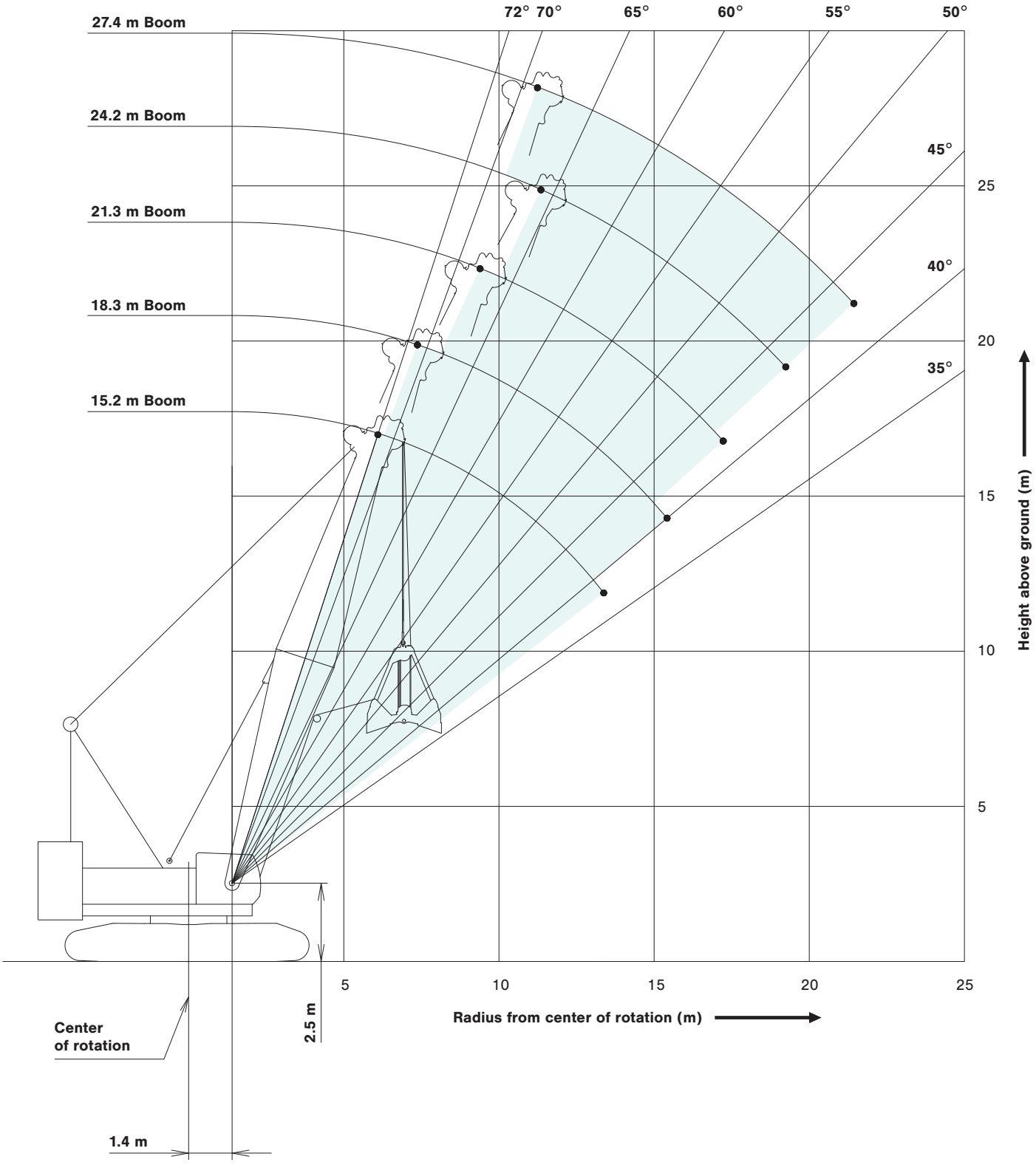
(Unit: mm)



Boom length	m	A	15.2					18.3					21.3				
Boom angle	deg.	θ	38	45	55	65	72	40	45	55	65	71	42	45	55	65	68
Load radius	m	R	14.0	12.8	10.9	8.6	7.0	16.0	15.0	12.6	9.9	8.0	18.0	17.1	14.4	11.2	10.0
Backet capacity	2.0 m³	H	2.6	4.0	5.8	7.2	7.9	7.5	8.7	10.8	12.5	13.3	9.9	10.9	13.3	15.3	15.8
	2.5 m³		2.2	3.6	5.4	6.8	7.5	7.1	8.3	10.4	12.1	12.9	9.5	10.5	12.9	14.9	15.4
	3.0 m³		2.0	3.4	5.2	6.6	7.3	6.9	8.1	10.2	11.9	12.7	9.3	10.3	12.7	14.7	15.2
	4.0 m³		1.8	3.2	5.0	6.4	7.1	6.7	7.9	10.0	11.7	12.5	9.1	10.1	12.5	14.5	15.0
Boom point height	m	h	11.5	12.9	14.7	16.1	16.8	13.9	15.1	17.2	18.9	19.7	16.3	17.3	19.7	21.7	22.2
Rated load		t	10.0														

Boom length	m	A	24.4					27.4				
Boom angle	deg.	θ	43	45	55	65	66	43	45	55	65	69
Load radius	m	R	20.0	19.3	16.1	12.5	12.0	22.0	21.5	17.9	13.8	12.0
Backet capacity	2.0 m³	H	12.3	13.0	15.8	18.0	18.2	14.6	15.2	18.3	20.8	21.6
	2.5 m³		11.9	12.6	15.4	17.6	17.8	14.2	14.8	17.9	20.4	21.2
	3.0 m³		11.7	12.4	15.2	17.4	17.6	14.0	14.6	17.7	20.2	21.0
	4.0 m³		11.5	12.2	15.0	17.2	17.4	13.8	14.4	17.5	20.0	20.8
Boom point height	m	h	18.7	19.4	22.2	24.4	24.6	21.0	21.6	24.7	27.2	28.0
Rated load		t	10.0									

Clamshell Working Range



SUPPLEMENTAL DATA FOR CLAMSHELL RATING CHART

- 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 (m^3) x specified gravity of material (ton/m^3) + 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.

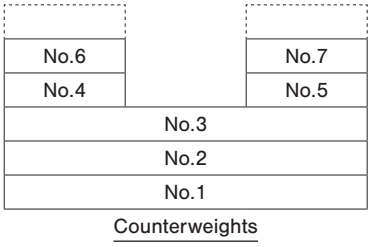
<Reference Information>

Main hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	98
Maximum Loads (t)	10.0

Assembling the counterweight

45.1 ton counterweight



Counterweights

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

LIFTING CAPACITIES FOR CLAMSHELL

Clamshell Bucket Specification

Bucket capacity (m^3)	Bucket height when opened (m)
2.0	3.9
2.5	4.3
3.0	4.5
4.0	4.7

Clamshell Rating Charts Crane Boom Capacities

Counterweight: 45.1 t

Unit: metric ton

Working radius (m) \ Boom length (m)	15.2	18.3	21.3	24.4	27.4	Boom length (m) \ Working radius (m)
7.0	10.0					**7.0**
8.0	10.0	10.0				**8.0**
9.0	10.0	10.0				**9.0**
10.0	10.0	10.0	10.0			**10.0**
12.0	10.0	10.0	10.0	10.0	10.0	**12.0**
14.0	10.0	10.0	10.0	10.0	10.0	**14.0**
16.0		10.0	10.0	10.0	10.0	**16.0**
18.0			10.0	10.0	10.0	**18.0**
20.0				10.0	10.0	**20.0**
22.0					10.0	**22.0**
Reeves	1	1	1	1	1	**Reeves**

Note:

Please refer rated chart in operator's cabin.

SUPPLEMENTAL DATA FOR REDUCED WEIGHTS RATING CHART

- Ratings according to Japanese Construction Codes for Mobile Cranes.
- 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.
- Ratings inside of boxes ▭ are limited by strength of materials.
- The minimum rated load is 2.0 (ton).
- Crawler frames must be fully extended for all crane operations.

(Crane boom lifting)

- 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

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	118	235	353	471	588
Maximum Loads (t)	12.0	24.0	36.0	48.0	60.0

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	706	824	941	1,059	1,177
Maximum Loads (t)	72.0	84.0	96.0	108.0	120.0

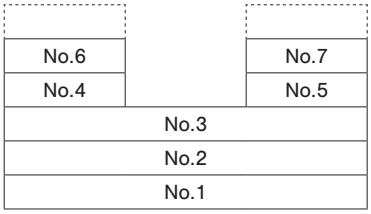
Auxiliary hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	118
Maximum Loads (t)	12.0

Weight of hook block				
Hook Block	120 t	70 t	35 t	Ball Hook
Weight (t)	1.7	1.2	0.9	0.45

Assembling the counterweight

45.1 ton counterweight



Counterweights

- The lifting capacity does not change due to the type of counterweights.

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Reduced Weights Rating Charts
Crane Boom Lifting Capacities

Counterweight: 45.1 t

Unit: metric ton

Working radius (m) \ Boom length (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	Boom length (m) \ Working radius (m)
4.5	4.5m/120.0								**4.5**
5.0	120.0	5.1m/108.0	5.6m/96.0						**5.0**
6.0	100.0	99.8	94.9	6.1m/84.0	6.7m/74.6				**6.0**
7.0	78.8	78.7	78.6	78.6	73.7	7.2m/66.4	7.7m/59.4		**7.0**
8.0	63.2	63.1	63.0	63.0	62.8	62.8	58.9	8.2m/53.6	**8.0**
9.0	52.7	52.5	52.4	52.4	52.2	52.2	52.1	52.0	**9.0**
10.0	45.0	44.9	44.8	44.7	44.5	44.5	44.4	44.3	**10.0**
12.0	34.8	34.6	34.4	34.4	34.2	34.1	34.1	33.9	**12.0**
14.0	28.2	28.0	27.8	27.7	27.5	27.5	27.4	27.2	**14.0**
16.0	14.9m/25.9	23.4	23.2	23.1	22.9	22.8	22.7	22.5	**16.0**
18.0		17.5m/20.8	19.8	19.7	19.5	19.4	19.3	19.1	**18.0**
20.0			17.2	17.1	16.9	16.8	16.7	16.5	**20.0**
22.0			20.1m/17.2	15.1	14.8	14.7	14.6	14.4	**22.0**
24.0				22.8m/14.4	13.2	13.1	12.9	12.7	**24.0**
26.0					25.4m/12.2	11.7	11.6	11.3	**26.0**
28.0						28.0m/10.5	10.4	10.2	**28.0**
30.0							9.4	9.2	**30.0**
32.0							30.7m/9.1	8.4	**32.0**
34.0								33.3m/7.9	**34.0**
Reeves	10	9	8	7	7	6	5	5	**Reeves**

Working radius (m) \ Boom length (m)	39.6	42.7	45.7	48.8	51.8	54.9	57.9	61.0	Boom length (m) \ Working radius (m)
8.0	8.8m/48.0								**8.0**
9.0	48.0	9.3m/43.5	9.8m/39.6						**9.0**
10.0	44.2	42.8	39.5	10.4m/36.0	10.9m/32.1	11.4m/29.4			**10.0**
12.0	33.8	33.7	33.5	33.5	31.4	29.0	12.0m/26.9	12.5m/24.0	**12.0**
14.0	27.1	27.0	26.8	26.8	26.7	26.5	25.9	23.5	**14.0**
16.0	22.5	22.3	22.2	22.1	22.0	21.8	21.6	21.6	**16.0**
18.0	19.0	18.9	18.7	18.7	18.5	18.3	18.2	18.1	**18.0**
20.0	16.4	16.3	16.1	16.0	15.9	15.7	15.5	15.5	**20.0**
22.0	14.3	14.2	14.0	13.9	13.8	13.6	13.4	13.4	**22.0**
24.0	12.6	12.5	12.3	12.2	12.1	11.9	11.7	11.6	**24.0**
26.0	11.3	11.1	10.9	10.8	10.7	10.5	10.3	10.2	**26.0**
28.0	10.1	9.9	9.7	9.7	9.5	9.3	9.1	9.1	**28.0**
30.0	9.1	8.9	8.7	8.6	8.5	8.3	8.1	8.0	**30.0**
32.0	8.2	8.1	7.9	7.8	7.6	7.4	7.3	7.2	**32.0**
34.0	7.5	7.3	7.1	7.0	6.9	6.7	6.5	6.4	**34.0**
36.0	36.0m/6.9	6.7	6.5	6.4	6.2	6.0	5.8	5.7	**36.0**
38.0		6.1	5.9	5.8	5.6	5.4	5.3	5.1	**38.0**
40.0		38.6m/6.0	5.4	5.3	5.1	4.9	4.7	4.6	**40.0**
42.0			41.2m/5.1	4.8	4.6	4.4	4.2	4.1	**42.0**
44.0				43.9m/4.4	4.2	4.0	3.8	3.7	**44.0**
46.0					3.8	3.6	3.4	3.3	**46.0**
48.0					46.5m/3.8	3.3	3.1	2.9	**48.0**
50.0						49.2m/3.1	2.6	2.5	**50.0**
52.0							51.8m/2.3	52.0m/2.1	**52.0**
Reeves	4	4	4	3	3	3	3	2	**Reeves**

Note:

Ratings according to Japanese Construction Codes for Mobile Cranes.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

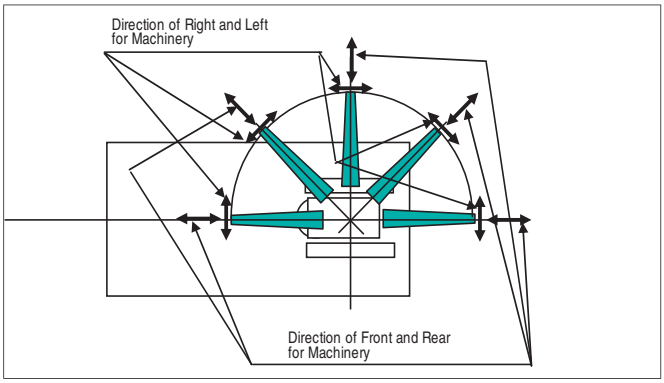
Please refer rated chart in operator's cabin.

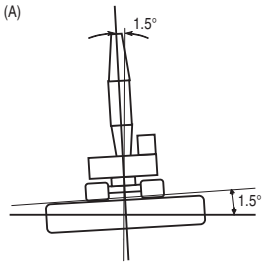
SUPPLEMENTAL DATA FOR BARGE RATING CHART

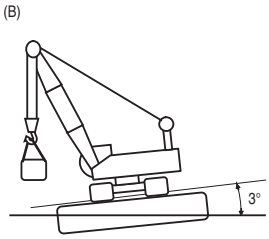
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Condition of barge stability this rating chart were 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 mobile 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

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	118	235	353	471	588
Maximum Loads (t)	12.0	24.0	36.0	48.0	60.0

No. of Parts of Line	6	7
Maximum Loads (kN)	706	785
Maximum Loads (t)	72.0	80.0

Auxiliary hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	118
Maximum Loads (t)	12

Weight of hook block				
Hook Block	120 t	70 t	35 t	Ball Hook
Weight (t)	1.7	1.2	0.9	0.45

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

LIFTING CAPACITIES FOR BARGE

Barge Rating Charts
Crane Boom Lifting Capacities

Counterweight: 53.1 t

Unit: metric ton

Working radius (m) \ Boom length (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	Boom length (m) \ Working radius (m)
5.0	5.3m/80.0							**5.0**
6.0	69.1	6.0m/66.8	6.7m/63.0					**6.0**
7.0	60.7	60.4	60.1	7.4m/56.6				**7.0**
8.0	52.7	52.4	52.1	51.9	8.1m/51.2	8.7m/46.7		**8.0**
9.0	46.5	46.3	46.0	45.8	45.5	45.4	9.4m/41.6	**9.0**
10.0	41.6	41.3	41.0	40.9	40.6	40.4	40.3	**10.0**
12.0	34.2	33.9	33.6	33.4	33.2	33.0	32.9	**12.0**
14.0	25.0	28.4	28.4	28.2	27.9	27.7	27.5	**14.0**
16.0	14.9m/21.3	22.6	23.8	24.2	23.9	23.8	23.6	**16.0**
18.0		17.5m/17.7	19.4	20.2	20.7	20.7	20.5	**18.0**
20.0			15.1	16.7	17.2	18.2	17.8	**20.0**
22.0			20.1m/14.8	14.0	14.5	15.3	15.7	**22.0**
24.0				22.8m/12.5	12.2	13.1	13.8	**24.0**
26.0					25.4m/10.5	11.2	11.9	**26.0**
28.0						28.0m/9.5	10.3	**28.0**
30.0							8.8	**30.0**
32.0							30.7m/8.4	**32.0**
Reeves	7	6	6	5	5	4	4	**Reeves**

Working radius (m) \ Boom length (m)	36.6	39.6	42.7	Boom length (m) \ Working radius (m)
10.0	10.1m/37.5	10.8m/33.5	11.5m/29.4	**10.0**
12.0	32.6	32.2	29.0	**12.0**
14.0	27.3	27.1	27.0	**14.0**
16.0	23.3	23.1	23.0	**16.0**
18.0	20.3	20.1	19.9	**18.0**
20.0	17.6	17.5	17.4	**20.0**
22.0	15.4	15.3	15.2	**22.0**
24.0	13.7	13.6	13.4	**24.0**
26.0	12.2	12.1	12.0	**26.0**
28.0	10.7	10.9	10.8	**28.0**
30.0	9.4	9.8	9.7	**30.0**
32.0	8.2	8.6	8.8	**32.0**
34.0	33.3m/7.4	7.5	7.9	**34.0**
36.0		36.0m/6.6	6.9	**36.0**
38.0			6.2	**38.0**
40.0			38.6m/5.9	**40.0**
Reeves	4	3	3	**Reeves**

Note:

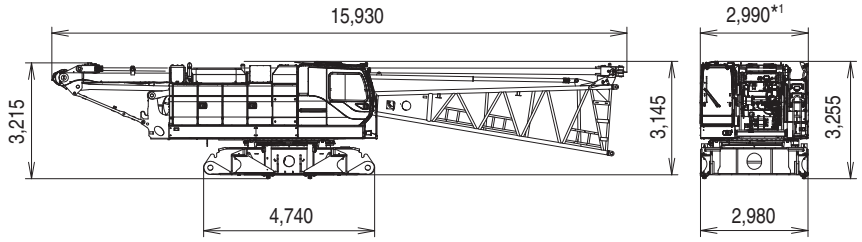
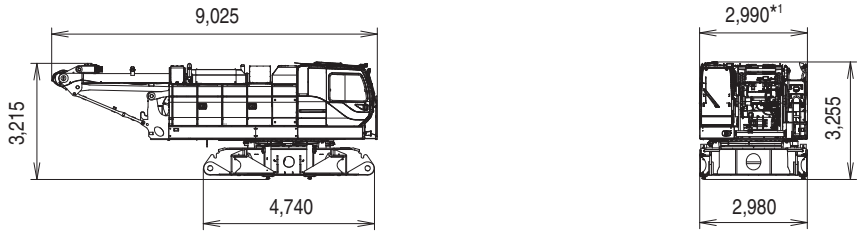
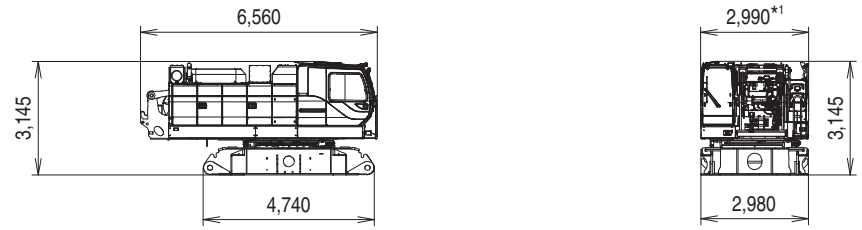
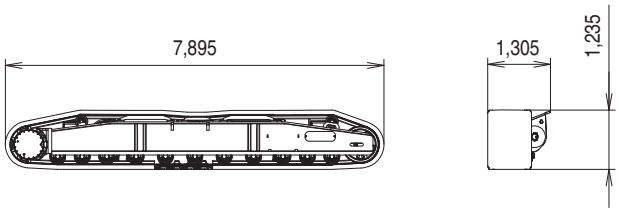
Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

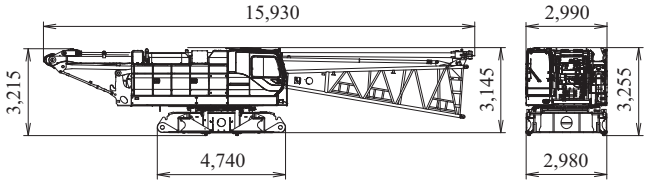
TRANSPORTATION PLAN

Name	Dimension (mm)	Weight (kg)
Base machine • Boom base • Gantry • Wire rope (Front / rear / boom hoist) • Crane backstop • Without crawler • Without side steps		34,800
Base machine • Gantry • Wire rope (Front / rear / boom hoist) • Without crawler • Without self removal cylinder		31,000
Base machine • Without crawler • Without gantry • Without wire rope (Boom hoist) • Without self removal cylinder • Without side steps		25,400
Crawler		14,500

*1 With the side step on cabin side : 3,170
With the side steps on the both sides : 3,340

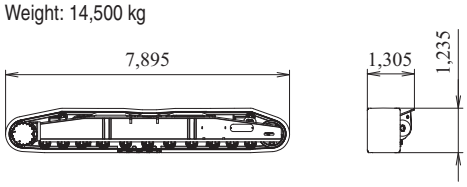
PARTS AND ATTACHMENTS

Base Machine
Boom base, Gantry, Wire rope (Front/rear/boom hoist)
Crane backstop, Without crawler, Without side steps
Weight: 34,800 kg Width: 2,990 mm*1

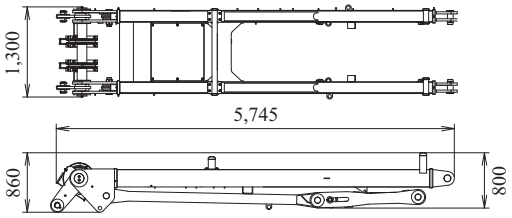


*1 With the side step on cabin side : 3,170
With the side steps on the both sides : 3,340

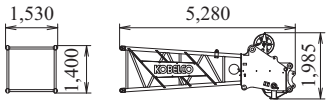
Crawler
Weight: 14,500 kg



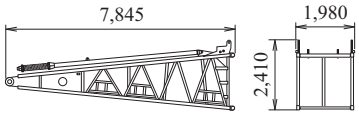
Gantry
Weight: 2,090 kg



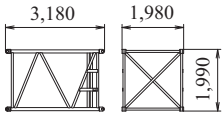
Boom Tip (for Crane)
Weight: 1,850 kg



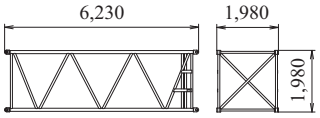
Boom Base (with Tower Backstop)
Weight: 3,100 kg



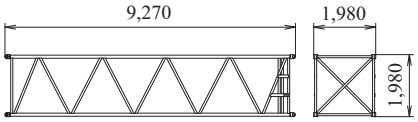
3.0 m Boom Insert
Weight: 530 kg



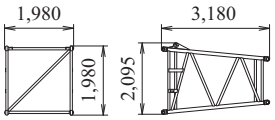
6.1 m Boom Insert
Weight: 850 kg



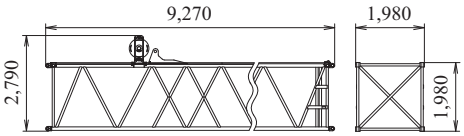
9.1 m Boom Insert
Weight: 1,160 kg



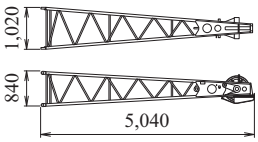
Taper Boom Insert
Weight: 490 kg



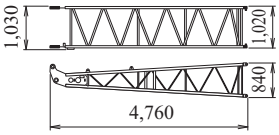
9.1m (9.1A) Special Boom Insert for Tower Boom (Inc. Guide Sheave and Steps)
Weight: 1,540 kg



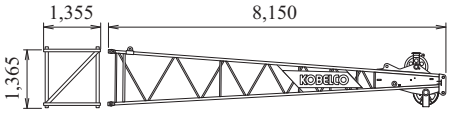
Jib Tip (Fixed Jib)
Weight: 315 kg



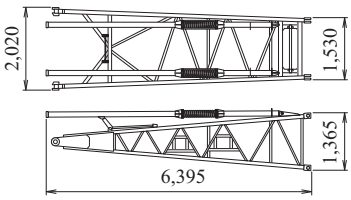
Jib Base (Fixed Jib)
Weight: 210 kg



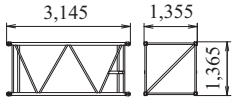
Tower Jib Tip
Weight: 900 kg



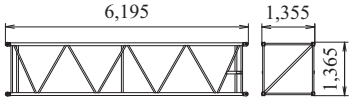
Tower Jib Base
Weight: 1,200 kg



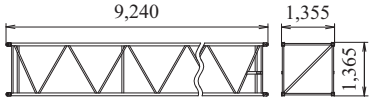
3.0 m Jib Insert (Tower Jib)
Weight: 210 kg



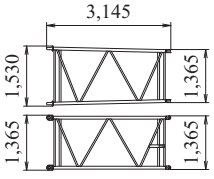
6.0 m Jib Insert (Tower Jib)
Weight: 360 kg



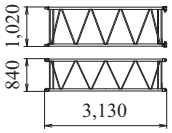
9.0 m Jib Insert (Tower Jib)
Weight: 510 kg



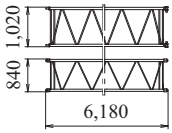
3.0 m (3.0A) Special Tower Jib Insert (Special Boom Insert)
Weight: 230 kg



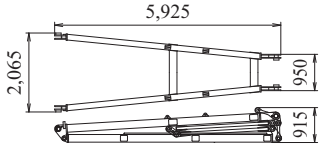
3.0 m Jib Insert (Fixed Jib)
Weight: 110 kg



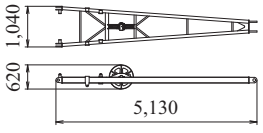
6.1 m Jib Insert (Fixed Jib)
Weight: 190 kg



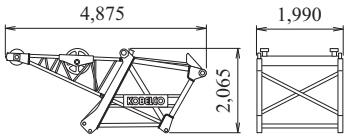
Jib Strut (Tower Jib)
Weight: 1,355 kg



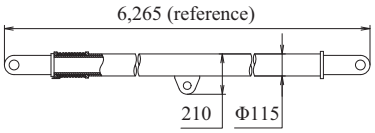
Crane Jib Strut
Weight: 300 kg



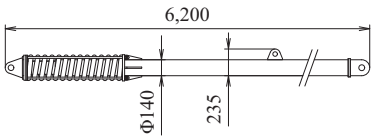
Tower Cap
Weight: 1,780 kg



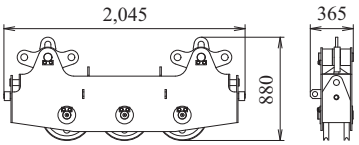
Crane Backstop
Weight: 210 kg / 1 piece



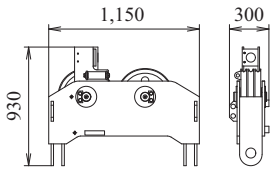
Backstop (for Tower)
Weight: 420 kg / 1 piece



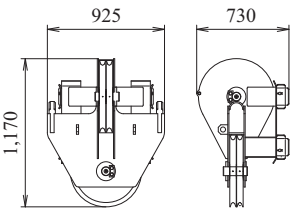
Upper Spreader (for Crane)
Weight: 485 kg



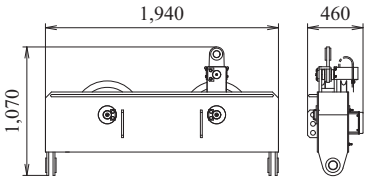
Lower Spreader (for Crane)
Weight: 315 kg



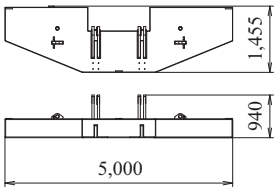
Upper Spreader (for Tower)
Weight: 310 kg



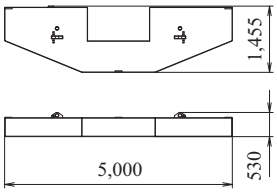
Lower Spreader (for Tower)
Weight: 410 kg



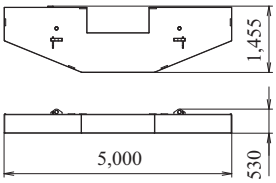
Counterweight (1)
Weight: 9,800 kg



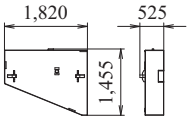
Counterweight (2)
Weight: 9,610 kg



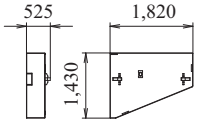
Counterweight (3)
Weight: 9,700 kg



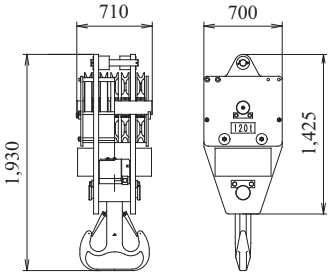
Counterweight (L)
(4) (6) (8)
Weight: 4,000 kg



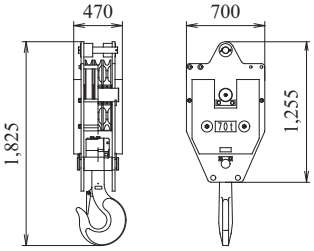
Counterweight (R)
(5) (7) (9)
Weight: 4,000 kg



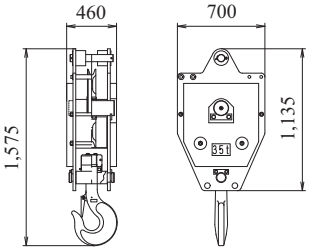
120 t Hook
Weight: 1,700 kg



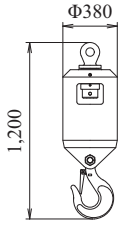
70 t Hook
Weight: 1,200 kg



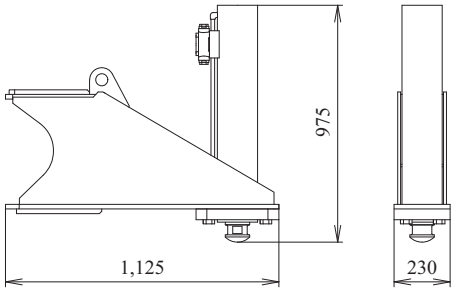
35 t Hook
Weight: 900 kg



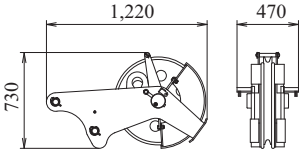
Ball Hook
Weight: 450 kg



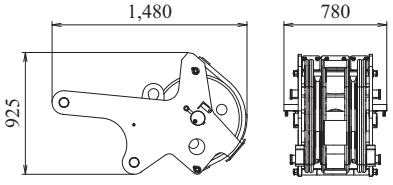
Translifter
Weight: 1,220 kg / 4 pieces



Aux. sheave (1 sheave)
Weight: 280 kg



Aux. sheave (2 sheaves)
Weight: 550 kg



Note: Estimated weights may vary ± 2%.

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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Bulletin No. 7120S-SPEC-NR3-3

2301S Printed in Japan