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BMS1000 CONTENTS

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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: 10.520 liters Rated power: 271 kW / 1,850 min⁻¹ Max. Torque: 1,470 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/5HR capacity batteries, series connected

Fuel tank capacity: 400 liters



Hydraulic System

Main pumps: 3 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

Hydraulic Tank Capacity: 440 liters

$(\mathbf{\dot{o}})$

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: 50 to 3 m/min

Boom hoisting/lowering: 20 mm x 140 m Boom guy line: 34 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. **Positive & Negative Brake:** Forced-circulation oil-cooled wet-type multi-disc brake, each using positive and negative actuation.

The drums are manually locked by the control cable. Both positive and negative brake systems are available in lever neutral position.

Drum Lock: External ratchet for locking drum Drums:

Front Drums: 616 mm P.C.D x 620 mm wide drum, grooved for 28 mm wire rope. Rope capacity is 200 m working length and 284 m storage length.

Rear Drum: 616 mm P.C.D x 620 mm grooved for 28 mm wire rope. Rope capacity is 130 m working length and 284 m storage length.

Diameter of wire rope

Main winch: 28 mm x 200 m Aux. winch: 28 mm x 130 m

Third winch: 26 mm x 190 m

Line Speed*:

Hoisting/lowering: 110 to 3 m/min

Line Pull:

Max. Line Pull* : 252 kN {25.7 tf} (Referential Performance) Rated Line Pull: 132 kN {13.5 tf}

*Single line on first drum layer



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers, the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation **Swing Speed:** 3.2 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: 37.1 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 can be hydraulically extended for wide-track operation or retracted for transportation. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Carbodyweight: 14.6 ton

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): 900 mm wide each crawler Max. gradeability: 30 %



Weight

Including upper and lower machine, 37.1 ton counterweight and 14.6 ton carbody weight, basic boom hook, and other accessories. **Weight:** 107.0 ton

Ground pressure: 109 kPa



Boom & Jib:

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

Boom length

	Min. Length	Max. Length
Crane Boom	13.8 m	62.6 m

Main Specifications (Model: BMS1000)

Crane Boom							
Max. Lifting Capacity	100 t x 3.8 m						
Max. Length	62.6 m						
Main & Aux. Winch							
Max. Line Speed (1st layer)	110 m/min						
Rated Line Pull (Single line)	132 kN {13.5 tf}						
Wire Rope Diameter	28 mm						
Wire Rope Length	200 m (Main), 130 m (Aux.)						
Brake Type (free fall)	Wet-type multiple disc brake (Standard)						
Working Speed							
Swing Speed	3.2 min ⁻¹ {rpm}						
Travel Speed	1.4/1.0 km/h						
Power Plant							
Model	HINO P11C-VH						
Engine Output	271 kW / 1,850 min ⁻¹						
Fuel Tank	400 liters						

Hydraulic System			
Main Pumps	3 variable displacement		
Max. Pressure	31.9 MPa {325 kgf/cm ² }		
Hydraulic Tank Capacity 440 liters			
Self-Removal Device			
	NA		
Weight			
Operating Weight	107 t *1		
Ground Pressure	109 kPa		
Counterweight	37,140 kg		
Transport Weight	31,000 kg *2		

Units are SI units. { } indicates conventional units.

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

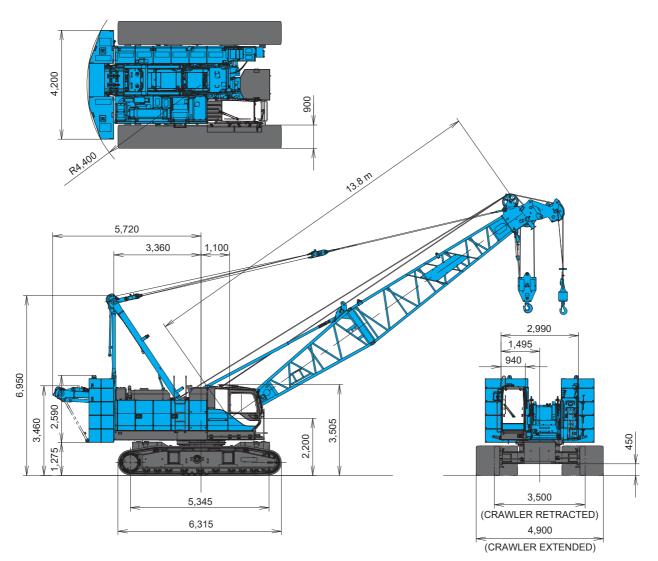
*1 Including upper and lower machine, 37.1 ton counterweight, 14.6 ton carbody weight, basic boom, hook, and other accessories.

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

GENERAL DIMENSIONS

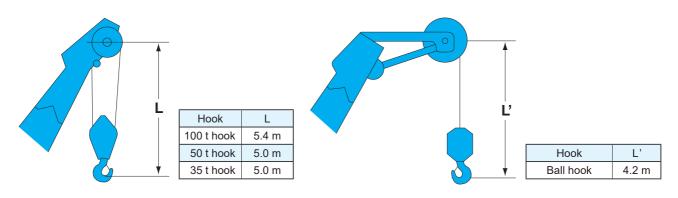
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(Unit: mm)



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

Limit of Hook Lifting



BOOM AND JIB ARRANGEMENTS

Crane Boom Arrangements

N N

Boom length m (ft)	Boom arrangement	Boom length m (ft)	В	coom arrangement	
13.8 (45)	<u>62</u> <u>81</u> <u>7.6</u>	41.2 (135)	B 10 20 30 B 30 30 30	30 T	
16.9 (55)		44.3 (145)		30 30 T 30 30 T	
19.9 (65)	B 10 10 T B 20 T B 20 T B 20 T C	47.3 (155)	 B 10 10 30 B 20 30 	30 30 T 30 30 T	
23.0 (75)	* B 10 20 T B 30 T	50.4 (165)	5)		
26.0 (85)	* B 10 10 20 T B 10 30 T	53.4 (175)		30 30 30 T 30 30 30 T T	
29.1 (95)	# B 10 10 30 T B 20 30 T B 20 30 T	56.5 (185)	B 10 10 30 B 20 30 30	30 30 30 T 30 30 30 T T	
32.1 (105)	 B 10 20 30 T B 30 30 T 	59.5 (195)	₩ <u> </u>	30 30 30 T	
35.2 (115)	* B 10 10 20 30 T B 10 30 30 T	62.6 (205)	ж В 10 10 20	30 30 30 T	
38.2 (125)	8 10 10 30 30 T B 20 30 30 T	Symbol B T	Boom Length 6.2 m 7.6 m	Remarks Boom Base Boom Top	
		10	3.0 m	Insert Boom	

20

30

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

Insert Boom

Insert Boom

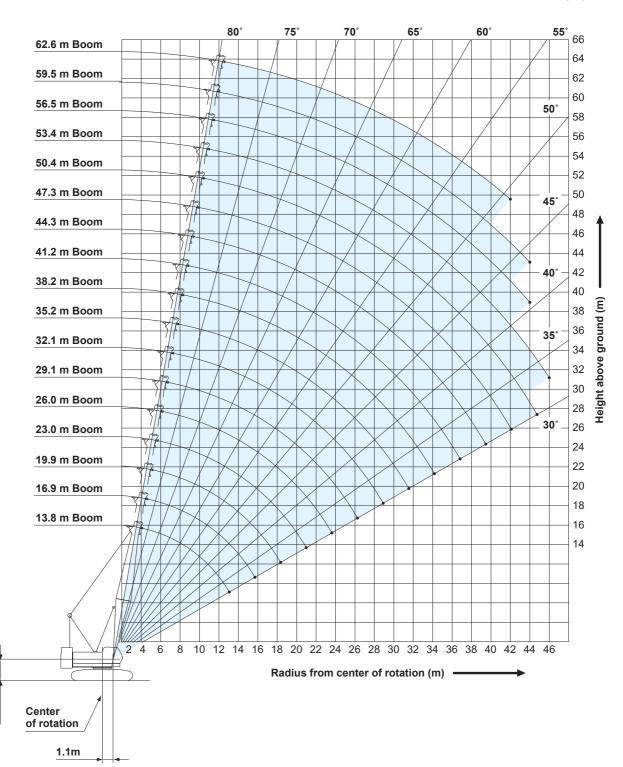
6.1 m

9.1 m

WORKING RANGES

Crane Boom

13



Unit : m

7

2.2m

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.
- 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 10 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 1.5 (ton).
- Crawler frames must be fully extended for all crane operations.
- •When erecting and lowering the boom length of 59.5 m and 62.6 m, the blocks for erection must be placed at the end of the crawlers.

(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)	132	245	368	490	613
Maximum Loads (t)	13.5	25.0	37.5	50.0	62.5
No. of Parts of Line	6	7	8		
Maximum Loads (kN)	735	858	981		

75.0

87.5

100.0

Maximum Loads (t) Auxiliary hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	132
Maximum Loads (t)	13.5

Third hoist loads

No. of Parts of Line	2	3	4	5	6
Maximum Loads (kN)	216	324	431	539	647
Maximum Loads (t)	22.0	33.0	44.0	55.0	66.0

*One part of line on hook is not allowed to use.

Weight of hook block							
Hook Block 100 t 50 t 35 t Ball Hook							
Weight (t) 1.73 0.85 0.70 0.45							

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

🕅 Cı	Crane Boom Lifting Capacities Counterweight: 37.1 Carbody Weight: 14.6 Unit: metric to										
Boom length Working (m) radius (m)	12.0	16.9	19.9	23.0	26.0	29.1	32.1	35.2	38.2	41.2	Boom length (m) Working radius (m)
3.8	100.0										3.8
4.3	4.3m/90.0	4.3m/87.5	4.8m/78.0								4.3
5.0	74.0	74.0	73.5	5.4m/70.0	5.9m/61.5						5.0
6.0	61.5	61.5	61.5	61.5	61.0	6.4m/56.8					6.0
7.0	51.3	51.1	51.0	50.9	50.8	50.8	50.0	7.5m/45.0			7.0
8.0	42.4	42.2	42.1	42.0	41.9	41.8	41.8	41.7	41.3	8.5m/37.5	8.0
9.0	36.0	35.9	35.7	35.6	35.5	35.5	35.4	35.3	35.2	35.1	9.0
10.0	31.3	31.1	31.0	30.9	30.8	30.7	30.6	30.5	30.4	30.3	10.0
12.0	22.0	24.5	24.3	24.2	24.1	24.0	24.0	23.8	23.7	23.6	12.0
14.0	13.2m/18.7	20.1	19.9	19.8	19.7	19.6	19.5	19.4	19.2	19.2	14.0
16.0		15.8m/14.9	16.8	16.7	16.5	16.5	16.4	16.2	16.1	16.0	16.0
18.0			13.6	14.3	14.2	14.1	14.0	13.8	13.7	13.7	18.0
20.0			18.5m/12.5	12.5	12.4	12.3	12.2	12.0	11.9	11.8	20.0
22.0				21.1m/11.1	10.9	10.8	10.7	10.5	10.4	10.3	22.0
24.0					23.8m/9.8	9.6	9.5	9.3	9.2	9.1	24.0
26.0						8.7	8.5	8.3	8.2	8.1	26.0
28.0						26.4m/8.2	7.7	7.5	7.4	7.3	28.0
30.0							29.0m/7.3	6.8	6.7	6.6	30.0
32.0								31.7m/6.3	6.1	6.0	32.0
34.0									5.5	5.4	34.0
36.0									34.3m/5.5	4.9	36.0
38.0										37.0m/4.7	38.0
Reeves	8	7	7	6	5	5	4	4	4	3	Reeves

Boom length Working (m)	44.3	47.3	50.4	53.4	56.5	59.5	62.6	Boom length (m) Working radius (m)
9.0	9.1m/34.6	9.6m/31.8						9.0
10.0	30.2	30.1	10.1m/25.0	10.7m/25.0	11.2m/21.6	11.7m/20.1		10.0
12.0	23.5	23.4	23.3	23.2	19.5	19.4	12.2m/18.0	12.0
14.0	19.0	18.9	18.9	18.7	18.6	18.0	15.4	14.0
16.0	15.9	15.7	15.7	15.5	15.4	15.0	14.5	16.0
18.0	13.5	13.4	13.3	13.2	13.0	12.9	12.7	18.0
20.0	11.6	11.5	11.5	11.3	11.2	11.0	10.9	20.0
22.0	10.2	10.0	10.0	9.8	9.7	9.6	9.4	22.0
24.0	9.0	8.8	8.8	8.6	8.5	8.4	8.2	24.0
26.0	8.0	7.8	7.8	7.6	7.5	7.3	7.2	26.0
28.0	7.1	7.0	6.9	6.8	6.6	6.5	6.3	28.0
30.0	6.4	6.3	6.2	6.0	5.9	5.8	5.6	30.0
32.0	5.8	5.6	5.6	5.4	5.3	5.1	5.0	32.0
34.0	5.2	5.1	5.0	4.8	4.7	4.6	4.4	34.0
36.0	4.8	4.6	4.5	4.4	4.2	4.1	3.9	36.0
38.0	4.3	4.2	4.1	3.9	3.8	3.7	3.5	38.0
40.0	39.6m/4.0	3.8	3.7	3.6	3.4	3.3	3.0	40.0
42.0		3.5	3.4	3.2	3.0	2.9	2.6	42.0
44.0		42.2m/3.5	3.1	2.9	2.7	2.5		44.0
46.0			44.9m/3.0	2.5				46.0
Reeves	3	3	2	2	2	2	2	Reeves

Note:

S

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

Ratings shown in are determined by the strength of the boom or other structural components. Refer to notes P8.

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

Please refer rated chart in operator's cabin.

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 10 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.
- •Crawler frames must be fully extended for all crane operations.

(Clamshell bucket lifting)

- •The total load that can be lifted is the value for weight of bucket, slings, and all other load handling accessories deducted from main boom ratings shown.
- •The weight of bucket and materials must not exceed rated load.
- •Optimum bucket should be required according to material.
- •Bucket capacity (m³) x specified gravity of material (ton/m³) + bucket weight (ton) = rated load.
- ·Bucket weight must also be decreased according to operating cycle and bucket lowering height.
- •Rated loads are determined by stability and boom strength. During simultaneous operations of boom and swing, rapid acceleration or deceleration must be avoided.
- •Do not attempt to cast the bucket while swinging or diagonal draw-cutting.

<Reference Information> Materia Instant Instal

Main noist loads	
No. of Parts of Line	1
Maximum Loads (kN)	122
Maximum Loads (t)	12.5

Assembling the counterweight

	(STD) ton counterw ton carbody	
No.6		No.7
No.4		No.5
	No.3	
	No.2	
	No.1	

Counterweights Carbody weights

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

260 North Smith Ave. Corona, CA 92880

			ing Ch apacit			Counterweight: 37.1 t Carbody Weight: 14.6 t Unit: metric ton
Boom length Load (m) radius (m)	13.8	16.9	19.9	23.0	26.0	Boom length (m) Load radius (m)
6.0	12.5					6.0
7.0	12.5	12.5				7.0
8.0	12.5	12.5	12.5			8.0
9.0	12.5	12.5	12.5	11.4		9.0
10.0	12.5	12.5	12.5	11.4	9.4	10.0
12.0	12.5	12.5	12.5	11.4	9.4	12.0
14.0		12.2	12.2	11.4	9.3	14.0
16.0			10.7	10.7	9.1	16.0
18.0			17.0m/9.9	9.5	8.6	18.0
20.0				8.2	8.1	20.0
22.0					7.3	22.0
24.0						24.0
26.0						26.0
28.0						28.0
30.0						30.0
32.0						32.0
Reeves	1	1	1	1	1	Reeves

Note:

R

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 10 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 1.5 (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)	132	245	368	490	613
Maximum Loads (t)	13.5	25.0	37.5	50.0	62.5
No. of Parts of Line	6	7	8		
Maximum Loads (kN)	735	858	0.81		

	100	000	001
Maximum Loads (t)	75.0	87.5	100.0

Auxiliary hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	132
Maximum Loads (t)	13.5

Weight of hook block							
Hook Block	100 t	50 t	35 t	Ball Hook			
Weight (t)	1.73	0.85	0.70	0.45			

Assembling the counterweight

26.8 ton counterweight

without carbod	y weight
No.3	
No.2	
No.1	
Counterwei	ights
Carbody we	ights

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.

C		icec e Bo												ut Carb	eight: 26.8 t ody Weight nit: metric ton
Boom length Load (m) radius (m)	13.8	16.9	19.9	23.0	26.0	29.1	32.1	35.2	38.2	41.2	44.3	47.3	50.4	53.4	Boom length (m) Load radius (m)
3.8	3.8m/90.0														3.8
4.3	80.0	4.3m/80.0													4.3
5.0	62.3	62.3	62.2	5.4m/54.4	5.9m/46.9										5.0
6.0	46.0	46.0	45.8	45.8	45.8	6.4m/41.1									6.0
7.0	36.3	36.2	36.1	36.0	35.9	35.8	7.0m/35.8	7.5m/32.1							7.0
8.0	29.8	29.7	29.6	29.5	29.4	29.3	29.3	29.2	8.0m/29.0	8.5m/26.5					8.0
9.0	25.3	25.2	25.0	24.9	24.8	24.7	24.7	24.5	24.4	24.4	9.1m/23.8	9.6m/21.9			9.0
10.0	21.9	21.7	21.6	21.5	21.4	21.3	21.2	21.1	21.0	21.0	20.8	20.7	10.1m/20.3	10.7m/18.5	10.0
12.0	17.1	17.0	16.8	16.7	16.6	16.5	16.4	16.3	16.2	16.1	16.0	15.9	15.9	15.7	12.0
14.0	13.2m/15.2	13.9	13.7	13.6	13.4	13.3	13.3	13.1	13.0	12.9	12.8	12.7	12.6	12.5	14.0
16.0		15.8m/11.8	11.4	11.3	11.2	11.1	11.0	10.8	10.7	10.7	10.5	10.4	10.4	10.2	16.0
18.0			9.8	9.7	9.5	9.4	9.3	9.1	9.0	9.0	8.8	8.7	8.7	8.5	18.0
20.0			18.5m/9.5	8.4	8.2	8.1	8.0	7.8	7.7	7.7	7.5	7.4	7.3	7.2	20.0
22.0				21.1m/7.8	7.2	7.1	7.0	6.8	6.7	6.6	6.4	6.3	6.3	6.1	22.0
24.0					23.8m/6.4	6.2	6.1	5.9	5.8	5.7	5.6	5.4	5.4	5.2	24.0
26.0						5.5	5.4	5.2	5.1	5.0	4.9	4.7	4.7	4.5	26.0
28.0						26.4m/5.4	4.9	4.7	4.5	4.4	4.3	4.1	4.1	3.9	28.0
30.0							29.0m/4.6	4.2	4.0	3.9	3.7	3.6	3.6	3.4	30.0
32.0								31.7m/3.8	3.6	3.5	3.3	3.2	3.1	3.0	32.0
34.0									3.2	3.1	2.9	2.8	2.7	2.6	34.0
36.0									34.3m/3.2	2.8	2.6	2.5	2.4	2.2	36.0
38.0										37.0m/2.6	2.3	2.1	2.0	38.0m/1.8	38.0
40.0											39.6m/2.1	1.8	40.0m/1.7		40.0
42.0												1.5			42.0
44.0												42.2m/1.5			44.0
Reeves	8	7	6	5	4	4	3	3	3	3	2	2	2	2	Reeves

Note:

S

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

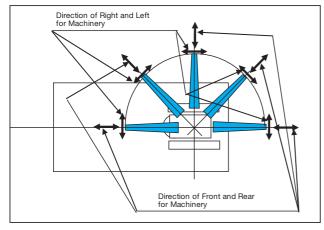
Ratings shown in _____ are determined by the strength of the boom or other structural components.

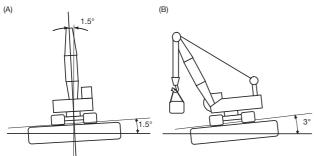
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

SUPPLEMENTAL DATA 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 macine
 - Maximum inclination shall be within 3.0 Degrees





- •Working area shall be inshore and smooth water.
- Applicable regulations for structure japanese construction codes for mobil crane
- Regulation of class of shipping (abs, lloyd, bv, nk, etc) are not adapted.
- •At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- •Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 10 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 1.5 (ton).
- •Crawler frames must be fully extended for all crane operations.
- •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)	132	245	368	490	588
Maximum Loads (t)	13.5	25.0	37.5	50.0	60.0

Auxiliary hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	132
Maximum Loads (t)	13.5

Weight of hook block							
Hook Block	100 t	50 t	35 t	Ball Hook			
Weight (t)	1.73	0.85	0.70	0.45			

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

	Barge Rating Chart Crane Boom Lifting Capacities							ght: 14.6 t Extended metric tons		
Boom length Load (m) radius (m)	13.8	16.9	19.9	23.0	26.0	29.1	32.1	35.2	38.2	Boom length (m) Load radius (m)
4.0	4.7m/60.0									4.0
5.0	55.0	5.2m/49.4	5.9m/43.5							5.0
6.0	43.1	42.9	42.8	6.6m/38.4						6.0
7.0	36.7	36.4	36.2	36.1	7.3m/34.3	7.9m/31.3				7.0
8.0	31.8	31.5	31.4	31.2	31.0	30.9	8.6m/28.2			8.0
9.0	27.9	27.7	27.6	27.5	27.3	27.1	26.9	9.3m/25.7		9.0
10.0	23.2	24.6	24.5	24.4	24.2	24.0	23.8	23.7	10.0m/23.6	10.0
12.0	16.5	18.2	19.6	19.7	19.6	19.5	19.4	19.1	19.0	12.0
14.0	13.2m/13.2	13.9	15.1	16.1	15.9	15.8	15.8	15.6	15.5	14.0
16.0		15.8m/11.1	12.0	12.9	13.3	13.2	13.1	13.0	12.8	16.0
18.0			9.7	10.5	11.1	11.3	11.2	11.0	10.9	18.0
20.0			18.5m/9.1	8.6	9.2	9.7	9.7	9.5	9.4	20.0
22.0				21.1m/7.8	7.7	8.2	8.5	8.3	8.2	22.0
24.0					23.8m/6.6	6.9	7.3	7.3	7.2	24.0
26.0						5.9	6.3	6.5	6.4	26.0
28.0						26.4m/5.7	5.4	5.6	5.7	28.0
30.0							29.0m/5.0	4.8	5.1	30.0
32.0								31.7m/4.3	4.5	32.0
34.0									3.9	34.0
36.0									34.3m/3.8	36.0
Reeves	5	4	4	4	3	3	3	3	2	Reeves

Note:

l v

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 structual components.

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

Please refer rated chart in operator's cabin.

R

TRANSPORTATION PLAN

Name	Dimension (mm)		Weight (kg)
Base Machine • Boom base • Gantry • Crawler • Crane backstop • Third winch • Wire rope (Front / rear / third boom hoist)	13,240	2,990 505 505 505 505 505 505 505 505 505	51,600
Base Machine • Crawler • Third winch • Wire rope (Front / rear / third drum)		2,990 90 90 95 87 3,500	47,600
Base Machine • Boom base • Gantry • Third winch • Wire rope (Front / rear / third boom hoist) • Crane backstop • Without crawler		2,990 99 80 2,990	31,000
Crawler			10,300

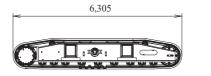
PARTS AND ATTACHMENTS

Base Machine Boom base, Gantry, Crawler, Crane backstop, Third winch Wire rope (Front/rear/third/boom hoist), Weight: 51,600 kg Width: 3,500 mm

13,240 3,460

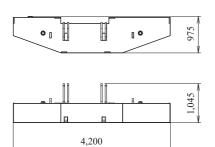
2.990 3,505 3,500

Crawler Weight: 10,300 kg

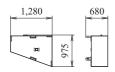




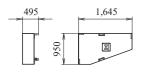




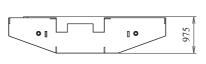
Counterweight No.4 (L) Weight: 2,350 kg



Counterweight No.7 (R) Weight: 2,490 kg

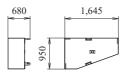


Counterweight No.2 Weight: 8,940 kg

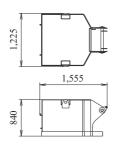




Counterweight No.5 (R) Weight: 3,740 kg

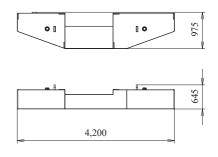


Carbody Weight Weight: 7,250 kg

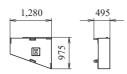


Counterweight No.3

Weight: 7,960 kg

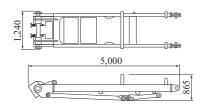


Counterweight No.6 (L) Weight: 1,740 kg



Gantry Weight: 1,400 kg

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Boom Top

Crane Backstop Weight: 130 kg

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Lower Spreader Weight: 200 kg

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Weight: 1,720 kg (with boom guy cables)

4,900

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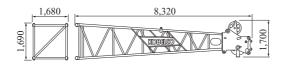
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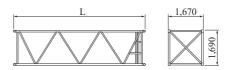
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	L (mm)	Weight (kg)*			
3.0m	3,170	500			
6.1m	6,210	800			
9.1m	9,260	1100			

*with boom guy cables

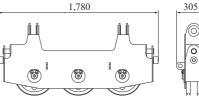
Boom Base

Weight: 1,580 kg



Upper Spreader Weight: 300 kg



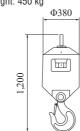




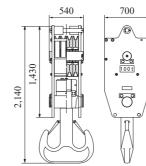
35 t Hook Weight: 700 kg



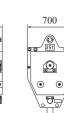
Ball Hook Weight: 450 kg



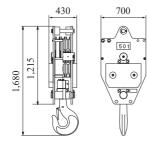
100 t Hook Weight: 1,730 kg







50 t Hook Weight: 850 kg



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