RENTAL - SALES - PARTS & SERVICE

Tel: (888) 337-BIGGE or (510) 638-8100

Web: www.bigge.com

Hydraulic Crawler Crane



1100

Max. Lifting Capacity: 110 t x 3.6 m * Max. Crane Boom Length: 70.1 m

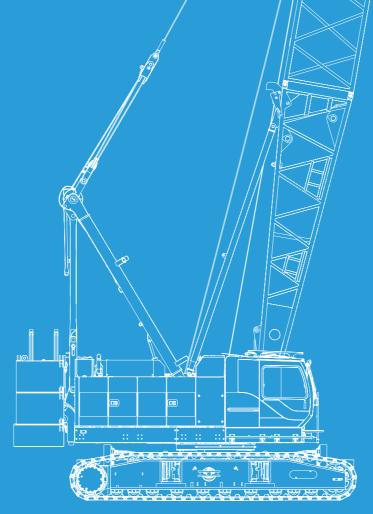
Max. Fixed Jib Combination: 61.0 m + 21.3 m

* Auxiliary sheave is necessary.

Bigge



Model: CKS1100





CKS1100 CONTENTS

3	SPECIFICATIONS
5	GENERAL DIMENSIONS
6	BOOM AND JIB ARRANGEMENTS
7	WORKING RANGES
10	SUPPLEMENTAL DATA
11	LIFTING CAPACITIES
16	SUPPLEMENTAL DATA FOR CLAMSHELL
17	LIFTING CAPACITIES
18	SUPPLEMENTAL DATA FOR REDUCED WEIGHTS
19	LIFTING CAPACITIES
20	SUPPLEMENTAL DATA FOR BARGE
21	LIFTING CAPACITIES
22	TRANSPORTATION PLAN
25	PARTS AND ATTACHMENTS

www.bigge.com

SPECIFICATIONS



Power Plant

Model: HINO J08E-VM

Type: 4 cycle, water-cooled, vertical in-line 6, direct injection,

turbo-charger, intercooler Displacement: 7,684 liters Rated power: 213 kW/2,100 min⁻¹ Max. Torque: 1,017 N·m/1,600 min⁻¹ Cooling System: Water-cooled

Starter: 24V-5kW

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 12V x 136 Ah/5HR capacity batteries, series

connected

Fuel tank capacity: 400 liters



Hydraulic System

Main pumps: 4 variable displacement piston pumps

Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.

Cooling: Oil-to-air heat exchanger (plate-fin type)

Filtration: Full-flow and bypass type with replaceable element

Max. relief valve pressure:

Load hoist, boom hoist and propel system: 31.9 MPa

Swing system: 27.5 MPa Control system: 5.4 MPa Hydraulic Tank Capacity: 535 liters



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer. Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.

Drum Lock: External ratchet for locking drum Drum: Single drum, grooved for 20 mm dia. wire rope

Line Speed: Single line on first drum layer Hoisting/Lowering: 48 to 2 m/min Boom hoisting/lowering: 20mm x 155 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. Negative Brake: A spring-set, hydraulically released multipledisc 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:

614 mm P.C.D x 617 mm wide drum, grooved for 26 mm wire rope. Rope capacity is 265 m working length and 360 m storage length.

Rear Drum: 614 mm P.C.D x 617 mm, grooved for 26 mm wire rope. Rope capacity is 235 m working length and 360 m storage length.

Diameter of wire rope

Main winch: 26 mm x 265 m Aux. winch: 26 mm x 235 m Third winch: 26 mm x 190 m

Line Speed*:

Hoisting/lowering: 120 to 3 m/min

Line Pull:

Max. Line Pull*: 208 kN {21.2 tf} (Referential performance) Rated Line Pull: 108 kN {11.0 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: 3.2 min⁻¹ (rpm)



Upper Structure

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

Counterweight: 34.6 ton



Cab & Control

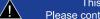
Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a headrest and armrests, and intermittent wiper and window washer (skylight and front window).

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: 6.5 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: 40%



Weight

Including upper and lower machine, 34.6 ton counterweight and 6.5 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 102 ton

Ground pressure: 95.4 kPa



Attachment

Boom & Jib:

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

Boom and Jib length

	Min. Length	Max. Length			
	(Min. combination)	(Max. combination)			
Crane Boom	15.2 m	70.1 m			
Fixed Jib	27.4 m + 9.1 m	61.0 m + 21.3 m			

Main Specifications (Model: CKS1100)			
Crane Boom			
Max. Lifting Capacity	110 t x 3.6 m *3		
Max. Length	70.1 m		
Fixed Jib			
Max. Lifting Capacity	10.9 t x 22.0 m		
Max. Combination	61.0 m + 21.3 m		
Main & Aux. Winch			
Max. Line Speed (1st layer)	120 m/min		
Rated Line Pull (Single line)	108 kN {11.0 tf}		
Wire Rope Diameter	26 mm		
Wire Rope Length	265m (Main), 235 m (Aux.)		
Brake Type (free fall)	Wet-type multiple disc brake (Optional)		
Working Speed			
Swing Speed	3.2 min ⁻¹ {rpm}		
Travel Speed	1.4/1.0 km/h		
Power Plant			
Model	HINO J08E-VM		
Engine Output	213 kW/2,100min ⁻¹		
Fuel Tank	400 liters		

Hydraulic System			
Main Pumps	4 variable displacement		
Max. Pressure	31.9 MPa {325 kgf/cm ² }		
Hydraulic Tank Capacity	535 liters		
Self-Removal Device			
	counterweight/crawler self-removal device		
Weight			
Operating Weight	102 t *1		
Ground Pressure	95.4 kPa		
Counterweight	34,600 kg		
Transport Weight	57,410 kg *2		

Units are SI units. { } indicates conventional units.

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

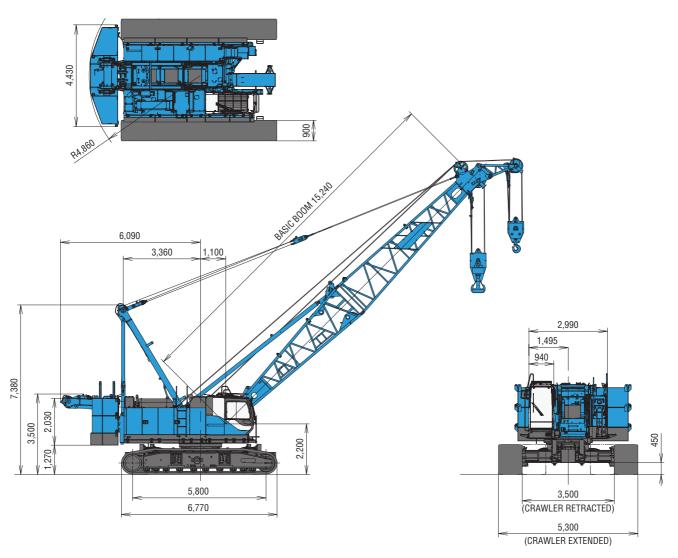
^{*1} Including upper and lower machine, 34.6 ton counterweight, 6.5 ton carbody weight, basic boom, hook, and other accessories.

^{*2} Base machine with boom base, gantry, crawlers, and wire ropes (front/boom hoist)

^{*3} Auxiliary sheave is must.

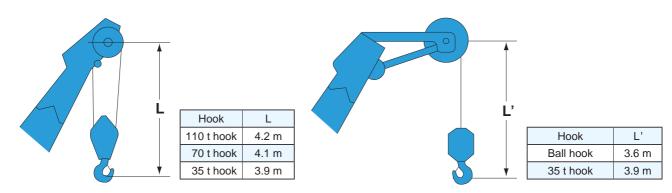
GENERAL DIMENSIONS

(Unit: mm)



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

Limit of Hook Lifting





Bigge

BOOM AND JIB ARRANGEMENTS

Crane Boom Arrangements

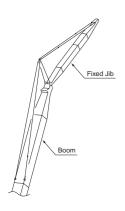
Boom length m (ft)	Boom arrangement
15.2 (50)	<u> </u>
18.3 (60)	* = 101
21.3 (70)	* = 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24.4 (80)	* = 8 10 20 1
27.4 (90)	# E 10 10 20 T
30.5 (100)	
33.5 (110)	*
36.6 (120)	
39.6 (130)	# = \(\begin{align*}
42.7 (140)	
45.7 (150)	# = 8 10 10 20 20 20 40A T

Boom length m (ft)	Boom arrangement
48.8 (160)	※
51.8 (170)	
54.9 (180)	# 8 10 20 20 40 40A T
57.9 (190)	# = 8 10 10 20 20 40 40 40A T
61.0 (200)	* = 10 20 40 40 40A 1T
64.0 (210)	# = 8 10 10 20 40 40 40A T
67.1 (220)	* <u>110 20 20 20 40 40 40 40 40 40</u>
70.1 (230)	*

Symbol	Boom Length	Remarks
В	7.6 m	Boom Base
	7.6 m	Boom Top
10	3.0 m	Insert Boom
20	6.1 m	Insert Boom
40	12.2 m	Insert Boom
40A	12.2 m	Insert Boom with lug

- mark shows the boom insert with lug attached and the guy line installing position when the fixed jib is used.
- $\ensuremath{\ensuremath{\%}}$ mark shows the standard boom arrangement which make the boom arrangement of less than the each boom length possible.
- o mark shows the installing of the cable roller for the insert boom.

Fixed Jib Arrangements



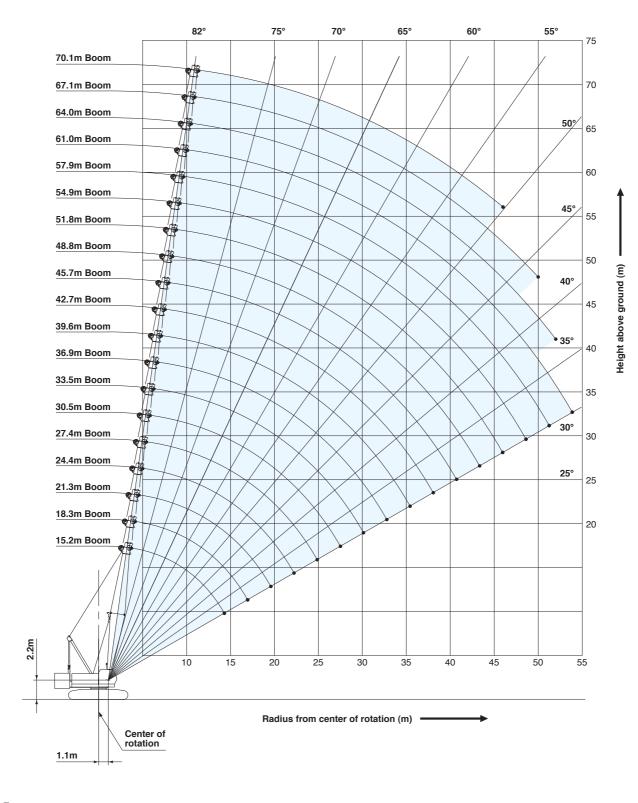
Crane boom length	Jib length m (ft)	Jib arrangement
27.4 m ~ 61.0 m	9.1 (30)	4.6 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	12.2 (40)	B 10 T
	15.2 (50)	B 20 T
	18.3 (60)	B 20 10 T
	21.3 (70)	B 10 10 20 T

Symbol	Jib Length	Remarks
В	4.6 m	Jib Base
	4.6 m	Jib Top
10	3.0 m	Insert Jib
20	6.1 m	Insert Jib

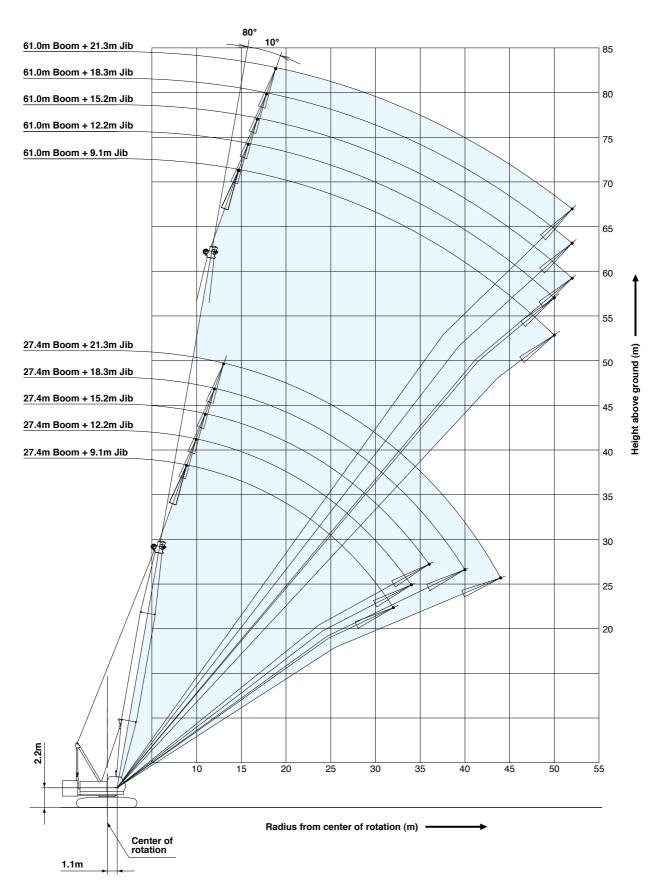




Crane Boom

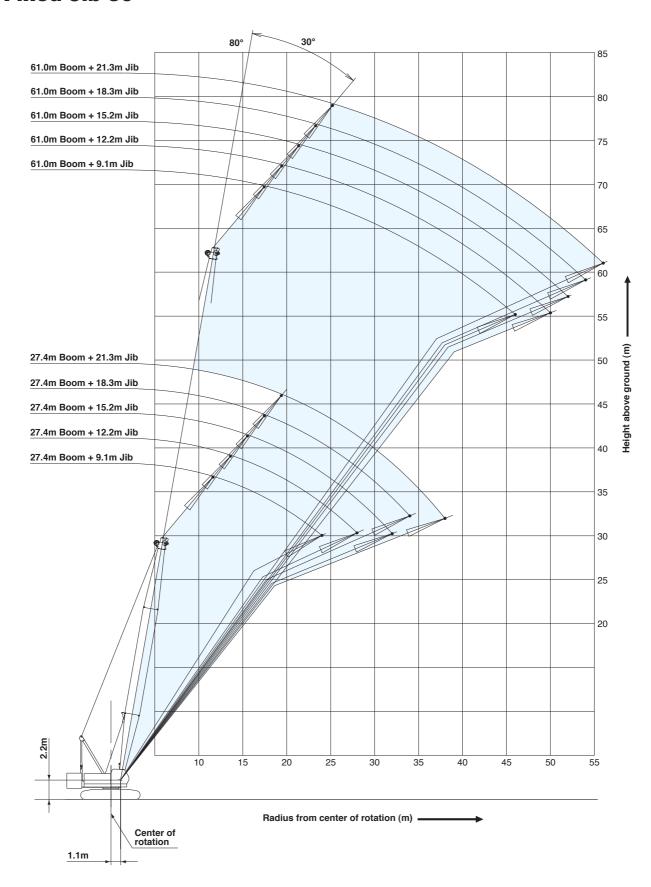


Fixed Jib 10°



WORKING RANGES

Fixed Jib 30°





SUPPLEMENTAL DATA

- Ratings according to EN13000.
- · 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

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 main hook block, slings, and all other load handling accessories deducted from crane boom ratings shown.

(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 27.4 m to 61.0 m.

<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	108	216	324	431	539
Maximum Loads (t)	11.0	22.0	33.0	44.0	55.0
No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	647	755	863	971	1,079
Maximum Loads (t)	66.0	77.0	88.0	99.0	110.0

Auxiliary hoist loads

No. of Parts of Line	1	2
Maximum Loads (kN)	108	216
Maximum Loads (t)	11.0	22.0

Weight of hook block					
Hook Block 110 t 70 t 35 t Ball Hook					
Weight (t)	1.7	0.9	0.7	0.45	

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

	rane	Boor	n Lift	ing C	apaci	ities				ounterweiç arbody We	
Boom length Working (m) radius (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	Boom length (m) Working radius (m)
3.5	3.6m/110.0										3.5
4.0	98.6	4.1m/95.3	4.6m/86.0								4.0
5.0	77.7	77.7	77.7	77.0	5.5m/66.0	5.9m/58.9					5.0
6.0	62.2	62.2	62.2	62.2	60.7	58.2	6.4m/52.4	6.8m/47.1			6.0
7.0	53.3	53.2	53.2	53.1	51.2	49.4	47.6	46.0	7.3m/42.7	7.8m/38.9	7.0
8.0	44.5	44.4	44.4	44.2	44.2	42.7	41.4	40.1	38.9	37.7	8.0
9.0	37.6	37.5	37.4	37.3	37.3	37.2	36.5	35.5	34.5	33.5	9.0
10.0	32.5	32.4	32.3	32.2	32.2	32.1	32.0	31.7	30.9	30.1	10.0
12.0	25.5	25.3	25.2	25.1	25.1	24.9	24.9	24.8	24.7	24.6	12.0
14.0	20.8	20.7	20.6	20.4	20.4	20.3	20.2	20.1	20.0	19.9	14.0
16.0	14.4m/20.1	17.4	17.3	17.1	17.1	16.9	16.9	16.7	16.7	16.6	16.0
18.0		17.1m/16.0	14.8	14.7	14.6	14.5	14.4	14.3	14.2	14.1	18.0
20.0			19.7m/13.2	12.8	12.7	12.6	12.5	12.4	12.3	12.2	20.0
22.0				11.3	11.2	11.1	11.0	10.8	10.8	10.6	22.0
24.0				22.4m/11.1	10.0	9.8	9.8	9.6	9.5	9.4	24.0
26.0					25.0m/9.5	8.8	8.7	8.6	8.5	8.4	26.0
28.0						27.6m/8.1	7.9	7.7	7.6	7.5	28.0
30.0							7.2	7.0	6.9	6.8	30.0
32.0							30.3m/7.1	6.4	6.3	6.1	32.0
34.0								32.9m/6.1	5.7	5.6	34.0
36.0									35.6m/5.3	5.1	36.0
38.0										4.7	38.0
40.0										38.2m/4.6	40.0
Reeves	10	9	8	7	6	6	5	5	4	4	Reeves

Boom length Working (m) radius (m)	45.7	48.8	51.8	54.9	57.9	61.0	64.0	67.1	70.1	Boom length (m) Working radius (m)
8.0	8.2m/35.6	8.7m/32.9								8.0
9.0	32.4	31.7	9.1m/30.4	9.6m/28.1						9.0
10.0	29.1	28.5	27.7	27.0	26.1	10.5m/22.0	10.9m/22.0	11.4m/19.1	11.9m/15.0	10.0
12.0	24.0	23.6	23.0	22.4	21.7	21.4	20.8	18.4	14.9	12.0
14.0	19.8	19.7	19.4	18.9	18.4	18.2	17.6	16.5	13.1	14.0
16.0	16.4	16.4	16.3	16.1	15.8	15.6	15.2	14.8	11.7	16.0
18.0	13.9	13.9	13.8	13.6	13.5	13.5	13.2	12.8	10.4	18.0
20.0	12.0	12.0	11.9	11.7	11.6	11.6	11.4	11.3	9.3	20.0
22.0	10.5	10.5	10.3	10.2	10.0	10.1	9.9	9.8	8.3	22.0
24.0	9.2	9.2	9.1	8.9	8.8	8.8	8.6	8.5	7.5	24.0
26.0	8.2	8.2	8.0	7.9	7.7	7.7	7.6	7.5	6.7	26.0
28.0	7.3	7.3	7.2	7.0	6.9	6.9	6.7	6.6	6.0	28.0
30.0	6.6	6.5	6.4	6.3	6.1	6.1	6.0	5.8	5.3	30.0
32.0	5.9	5.9	5.8	5.6	5.5	5.5	5.3	5.2	4.7	32.0
34.0	5.4	5.3	5.2	5.0	4.9	4.9	4.7	4.6	4.2	34.0
36.0	4.9	4.8	4.7	4.6	4.4	4.4	4.2	4.1	3.7	36.0
38.0	4.5	4.4	4.3	4.1	4.0	3.9	3.8	3.6	3.2	38.0
40.0	4.1	4.0	3.9	3.7	3.5	3.5	3.3	3.2	2.7	40.0
42.0	40.8m/4.0	3.7	3.5	3.3	3.2	3.1	2.9	2.8	2.3	42.0
44.0		43.5m/3.5	3.2	3.0	2.8	2.8	2.6	2.4	1.9	44.0
46.0			2.9	2.7	2.5	2.5	2.3	2.1	1.6	46.0
48.0			46.1m/2.9	2.4	2.2	2.2	2.0	1.8		48.0
50.0				48.8m/2.3	2.0	1.9	1.7	1.6		50.0
52.0					51.4m/1.8	1.7	1.5			52.0
54.0						1.5				54.0
Reeves	4	3	3	3	3	2	2	2	2	Reeves

Ratings according to EN13000.

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.







					_	apac 10°)		s (Wi	ithou	ıt Ma	ain H	look	Bloc	ck)		ody We	ght: 34.6 t
Po	om length (m)			27.4	J. -	1			30.5					33.5		Uni	t: metric ton Boom length (m)
\vdash	b length (m)	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	Jib length (m)
П	10.0	10.9			10.0		10.9			10.0		• • • • • • • • • • • • • • • • • • • •			10.0		10.0
	12.0	10.9	10.9	10.9			10.9	10.9	10.9			10.9	10.9				12.0
li	14.0	10.9	10.9	10.9	9.8	7.1	10.9	10.9	10.9	9.9	7.1	10.9	10.9	10.9	9.9		14.0
li	16.0	10.9	10.9	10.9	9.6	6.9	10.9	10.9	10.9	9.7	6.9	10.9	10.9	10.9	9.7	7.0	16.0
	18.0	10.9	10.9	10.2	8.9	6.7	10.9	10.9	10.7	9.3	6.8	10.9	10.9	10.9	9.5	6.8	18.0
	20.0	10.9	10.9	9.2	8.0	6.5	10.9	10.9	9.7	8.4	6.6	10.9	10.9	10.2	8.8	6.7	20.0
	22.0	10.9	10.2	8.4	7.3	6.4	10.9	10.9	8.9	7.6	6.5	10.9	10.9	9.3	8.0	6.5	22.0
	24.0	10.1	9.4	7.7	6.7	6.0	10.0	10.0	8.2	7.0	6.3	9.9	10.0	8.6	7.4	6.4	24.0
اءِ	26.0	9.1	8.7	7.2	6.2	5.5	8.9	9.1	7.6	6.5	5.8	8.8	9.0	8.0	6.8	6.1	26.0
ıs (n	28.0	8.2	8.1	6.7	5.7	5.1	8.0	8.2	7.0	6.0	5.4	7.9	8.1	7.4	6.3	5.6	28.0
adin	30.0	7.4	7.5	6.2	5.4	4.7	7.3	7.4	6.6	5.6	5.0	7.2	7.3	7.0	5.9	5.2	30.0
Working radius (m)	32.0	6.8	6.9	5.9	5.0	4.4	6.6	6.7	6.2	5.3	4.7	6.5	6.6	6.5	5.6	4.9	28.0 Sorking radius (m) 30.0 32.0 34.0 (m)
Š	34.0		6.3	5.5	4.7	4.2	6.1	6.2	5.9	5.0	4.4	6.0	6.1	6.1	5.3	4.6	34.0
	36.0			5.3	4.5	3.9		5.7	5.6	4.7	4.1	5.5	5.5	5.6	5.0	4.3	36.0
	38.0				4.2	3.7			5.3	4.5	3.9	5.0	5.1	5.2	4.7	4.1	38.0
	40.0				4.0	3.5			4.9	4.3	3.7		4.7	4.8	4.5	3.9	40.0
	42.0					3.3				4.1	3.5			4.4	4.3	3.7	42.0
[44.0					3.2				3.9	3.4			4.1	4.1	3.5	44.0
	46.0										3.2				3.8	3.4	46.0
	48.0															3.3	48.0
	50.0															3.1	50.0
Ш	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Во	om length (m)			36.6					39.6					42.7			Boom length (m)
J	b length (m)	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	Jib length (m)
	12.0	10.9	10.9				10.9					10.9					12.0
	14.0	10.9	10.9	10.9	10.0		10.9	10.9	10.9			10.9	10.9	10.9			14.0
	16.0	10.9	10.9	10.9	9.8	7.0	10.9	10.9	10.9	9.8	7.1	10.9	10.9	10.9	9.9	7.1	16.0
	18.0	10.9	10.9	10.9	9.6	6.9	10.9	10.9	10.9	9.7	6.9	10.9	10.9	10.9	9.7	6.9	18.0
	20.0	10.9	10.9	10.6	9.1	6.7	10.9	10.9	10.9	9.5	6.8	10.9	10.9	10.9	9.6	6.8	20.0
	22.0	10.9	10.9	9.7	8.3	6.6	10.9	10.9	10.1	8.7	6.6	10.8	10.9	10.5	9.0	6.7	22.0
	24.0	9.7	9.9	9.0	7.7	6.4	9.6	9.8	9.4	8.0	6.5	9.5	9.7	9.8	8.3	6.5	24.0
	26.0	8.7	8.8	8.3	7.1	6.3	8.6	8.7	8.7	7.4	6.4	8.4	8.6	8.7	7.7	6.4	26.0
	28.0	7.8	7.9	7.8	6.6	5.9	7.7	7.8	7.9	6.9	6.1	7.6	7.7	7.8	7.2	6.3	28.0
=	30.0	7.0	7.1	7.2	6.2	5.5	6.9	7.0	7.1	6.5	5.7	6.8	6.9	7.0	6.8	5.9	30.0
radius (m)	32.0	6.4	6.5	6.6	5.8	5.1	6.3	6.4	6.5	6.1	5.4	6.1	6.2	6.3	6.4	5.6	32.0 Working radius (m) 36.0 38.0 (m)
adir	34.0	5.8	5.9	6.0	5.5	4.8	5.7	5.8	5.9	5.8	5.0	5.6	5.7	5.8	5.8	5.2	34.0
ng	36.0	5.3	5.4	5.5	5.2	4.6	5.2	5.3	5.4	5.4	4.8	5.0	5.2	5.2	5.3	5.0	36.0
Working	38.0	4.9	4.9	5.0	4.9	4.3	4.7	4.8	4.9	5.0	4.5	4.6	4.7	4.8	4.9	4.7	38.0
>	40.0	4.5	4.5	4.6	4.7	4.1	4.3	4.4	4.5	4.6	4.3	4.2	4.3	4.4	4.4	4.5	40.0
	42.0		4.2	4.3	4.3	3.9	4.0	4.1	4.1	4.2	4.1	3.8	3.9	4.0	4.1	4.1	42.0
	44.0			3.9	4.0	3.7		3.7	3.8	3.9	3.9	3.5	3.6	3.7	3.7	3.8	44.0
	46.0				3.7	3.6			3.5	3.6	3.6		3.3	3.4	3.4	3.5	46.0
	48.0				3.4	3.4			3.2	3.3	3.3		3.1	3.1	3.2	3.2	48.0
	50.0					3.2				3.0	3.1			2.9	2.9	3.0	50.0
	52.0										2.9				2.7	2.7	52.0
	54.0										2.6				2.5	2.5	54.0
	56.0															2.3	56.0
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Ratings according to EN13000.

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.

			Jib ffset		_		cities	s (Wi	ithou	ıt Ma	ain H	look	Bloc	ck)		ody We	ght: 34.6 t eight: 6.5 t
				45.7	J				48.8					51.8		Uni	
\vdash	om length (m) b length (m)	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	Jib length (m)
H	14.0	10.9	10.9	13.2	10.3	21.3	10.9	10.9	13.2	10.3	21.3	10.9	12.2	13.2	10.3	21.3	14.0
$ \cdot $	16.0	10.9	10.9	10.9	9.9		10.9	10.9	10.9	10.0		10.9	10.9	10.9			16.0
	18.0	10.9	10.9	10.9	9.8	7.0	10.9	10.9	10.9	9.8	7.0	10.9	10.9	10.9	9.8	7.0	18.0
	20.0	10.9	10.9	10.9	9.6	6.8	10.9	10.9	10.9	9.6	6.9	10.9	10.9	10.9	9.7	6.9	20.0
	22.0	10.6	10.8	10.9	9.3	6.7	10.5	10.7	10.8	9.5	6.8	10.4	10.6	10.7	9.5	6.8	22.0
	24.0	9.3	9.5	9.6	8.6	6.6	9.3	9.4	9.5	8.9	6.6	9.1	9.3	9.4	9.2	6.7	24.0
	26.0	8.3	8.4	8.5	8.0	6.5	8.2	8.4	8.5	8.3	6.5	8.1	8.2	8.3	8.4	6.6	26.0
	28.0	7.4	7.5	7.6	7.5	6.4	7.3	7.4	7.6	7.6	6.4	7.2	7.3	7.4	7.5	6.5	28.0
	30.0	6.6	6.8	6.9	6.9	6.2	6.5	6.7	6.8	6.9	6.3	6.4	6.5	6.7	6.7	6.4	30.0
	32.0	6.0	6.1	6.2	6.3	5.8	5.9	6.0	6.1	6.2	6.0	5.7	5.9	6.0	6.1	6.1	32.0
Ē	34.0	5.4	5.5	5.6	5.7	5.5	5.3	5.4	5.5	5.6	5.6	5.2	5.3	5.4	5.5	5.5	34.0 ≶
ins	36.0	4.9	5.0	5.1	5.2	5.2	4.8	4.9	5.0	5.1	5.1	4.7	4.8	4.9	4.9	5.0	36.0 ਨੂੰ
rad	38.0	4.4	4.5	4.6	4.7	4.7	4.3	4.4	4.5	4.6	4.7	4.2	4.3	4.4	4.5	4.5	38.0
Working radius (m)	40.0	4.0	4.1	4.2	4.3	4.3	3.9	4.0	4.1	4.2	4.2	3.8	3.9	4.0	4.1	4.1	34.0 Working radius (n) 40.0 42.0 (n)
No	42.0	3.7	3.8	3.8	3.9	4.0	3.6	3.7	3.8	3.8	3.9	3.4	3.5	3.6	3.7	3.7	42.0 <u>3</u>
	44.0	3.3	3.4	3.5	3.6	3.6	3.2	3.3	3.4	3.5	3.5	3.1	3.2	3.3	3.4	3.4	44.0
	46.0	3.1	3.1	3.2	3.3	3.3	3.0	3.0	3.1	3.2	3.2	2.8	2.9	3.0	3.1	3.1	46.0
	48.0	2.8	2.9	2.9	3.0	3.1	2.7	2.8	2.8	2.9	3.0	2.5	2.6	2.7	2.8	2.8	48.0
	50.0		2.6	2.7	2.8	2.8	2.4	2.5	2.6	2.7	2.7	2.2	2.3	2.4	2.5	2.5	50.0
	52.0			2.4	2.5	2.6		2.2	2.3	2.4	2.4	1.9	2.0	2.1	2.2	2.2	52.0
	54.0				2.3	2.3			2.0	2.1	2.2		1.8	1.9	1.9	2.0	54.0
	56.0				2.0	2.1			1.8	1.9	1.9		1.5	1.6	1.7	1.8	56.0
	58.0					1.9				1.7	1.7						58.0
	60.0										1.5						60.0
Ш	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Во	om length (m)			54.9					57.9					61.0			Boom length (m)
J	ib length (m)	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	Jib length (m)
	14.0	10.9															14.0
	16.0	10.9	10.9	10.9			10.9	10.9				10.9	10.9				16.0
	18.0	10.9	10.9	10.9	9.9	7.1	10.9	10.9	10.9	9.9		10.9	10.9	10.9	9.9		18.0
	20.0	10.9	10.9	10.9	9.7	6.9	10.9	10.9	10.9	9.8	7.0	10.9	10.8	10.8	9.8	7.0	20.0
	22.0	10.3	10.5	10.6	9.6	6.8	10.1	10.3	10.5	9.6	6.8	10.1	10.3	10.4	9.7	6.9	22.0
	24.0	9.0	9.2	9.3	9.4	6.7	8.9	9.0	9.2	9.3	6.7	8.8	9.0	9.1	9.2	6.8	24.0
	26.0	7.9	8.1	8.2	8.3	6.6	7.8	8.0	8.1	8.2	6.6	7.7	7.9	8.0	8.1	6.7	26.0
	28.0	7.0	7.2	7.3	7.4	6.5	6.9	7.0	7.2	7.3	6.5	6.8	7.0	7.1	7.2	6.6	28.0
	30.0	6.3	6.4	6.5	6.6	6.4	6.1	6.3	6.4	6.5	6.4	6.1	6.2	6.3	6.4	6.5	30.0
ĮΞ	32.0	5.6	5.7	5.8	5.9	6.0	5.4	5.6	5.7	5.8	5.8	5.4	5.5	5.6	5.7	5.8	32.0 34.0 36.0 38.0 40.0
radius	34.0	5.0	5.1	5.2	5.3	5.4	4.9	5.0	5.1	5.2	5.2	4.8	4.9	5.0	5.1	5.2	34.0
	36.0	4.5	4.6	4.7	4.8	4.9	4.4	4.5	4.6	4.7	4.7	4.3	4.4	4.5	4.6	4.6	36.0
Working	38.0	4.1	4.2	4.3	4.3	4.4	3.9	4.0	4.1	4.2	4.3	3.8	3.9	4.0	4.1	4.2	38.0
%	40.0	3.6	3.8	3.9	3.9	4.0	3.5	3.6	3.7	3.8	3.8	3.4	3.5	3.6	3.7	3.8	40.0
	42.0	3.3	3.4	3.5	3.6	3.6	3.1	3.2	3.3	3.4	3.5	3.0	3.1	3.3	3.3	3.4	42.0
	44.0	2.9	3.1	3.1	3.2	3.3	2.7	2.9	3.0	3.1	3.1	2.6	2.7	2.9	3.0	3.0	44.0
	46.0	2.6	2.7	2.8	2.9	3.0	2.4	2.5	2.6	2.7	2.8	2.2	2.4	2.5	2.6	2.7	46.0
	48.0	2.2	2.4	2.5	2.6	2.6	2.0	2.2	2.3	2.4	2.4	1.9	2.1	2.2	2.3	2.3	48.0
	50.0	2.0	2.1	2.2	2.3	2.3	1.7	1.9	2.0	2.1	2.1	1.6	1.8	1.9	2.0	2.0	50.0
	52.0	1.7	1.8	1.9	2.0	2.1		1.6	1.7	1.8	1.8			1.6	1.7	1.7	52.0
	54.0		1.6	1.7	1.7	1.8				1.5	1.6						54.0
	56.0				1.5	1.6											56.0
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves



13

Ratings according to EN13000.

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

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





Reeves

Во	om length (m)			36.6					39.6					42.7			Boom length (m)
J	ib length (m)	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	Jib length (m)
Г	14.0	9.5					9.5										14.0
	16.0	9.5	7.0				9.5	7.0				9.5					16.0
	18.0	9.5	7.0	5.2			9.5	7.0	5.2			9.5	7.0				18.0
	20.0	9.5	7.0	5.2	4.2		9.5	7.0	5.2	4.2		9.5	7.0	5.2			20.0
	22.0	9.5	7.0	5.2	4.2	4.2	9.5	7.0	5.2	4.2	4.2	9.5	7.0	5.2	4.2		22.0
	24.0	9.5	6.9	5.2	4.2	4.0	9.5	7.0	5.2	4.2	4.0	9.5	7.0	5.2	4.2	4.1	24.0
=	26.0	8.9	6.6	5.2	4.2	3.8	8.8	6.7	5.2	4.2	3.8	8.7	6.9	5.2	4.2	3.9	26.0
radius (m)	28.0	8.0	6.3	5.0	4.2	3.6	7.9	6.5	5.1	4.2	3.6	7.8	6.6	5.2	4.2	3.7	28.0
adir	30.0	7.2	6.1	4.8	4.0	3.4	7.1	6.3	4.9	4.1	3.5	7.0	6.4	5.0	4.2	3.6	30.0 ਵ੍ਰ
	32.0	6.5	5.9	4.7	3.8	3.3	6.4	6.1	4.8	3.9	3.3	6.3	6.2	4.9	4.0	3.4	32.0 ਊ
Working	34.0		5.7	4.5	3.7	3.1		5.9	4.6	3.8	3.2	5.7	5.9	4.7	3.9	3.3	28.0 Solding and a solding a solding and a solding a solding and a solding
>	36.0			4.4	3.6	3.0		5.4	4.5	3.7	3.1	5.2	5.3	4.6	3.7	3.2	36.0
	38.0			4.2	3.5	2.9			4.3	3.5	3.0		4.9	4.4	3.6	3.1	38.0
	40.0				3.4	2.8				3.4	2.9			4.3	3.5	3.0	40.0
	42.0					2.7				3.4	2.8				3.4	2.9	42.0
	44.0					2.7					2.7				3.3	2.8	44.0
	46.0															2.7	46.0
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Note:

Ratings according to EN13000.

Reeves

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.

Bigge

					_	apac 30°)		s (Wi	ithou	ıt Ma	ain H	look	Bloc	ck)		ody We	ght: 34.6 t eight: 6.5 t
Во	om length (m)			45.7					48.8					51.8			Boom length (m)
J	ib length (m)	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	Jib length (m)
	16.0	9.5					9.5	İ				9.5	İ				16.0
	18.0	9.5	7.0				9.5	7.0				9.5	7.0				18.0
	20.0	9.5	7.0	5.2			9.5	7.0	5.2			9.5	7.0	5.2			20.0
	22.0	9.5	7.0	5.2	4.2		9.5	7.0	5.2	4.2		9.5	7.0	5.2	4.2		22.0
	24.0	9.5	7.0	5.2	4.2	4.1	9.5	7.0	5.2	4.2	4.2	9.5	7.0	5.2	4.2	4.2	24.0
	26.0	8.6	7.0	5.2	4.2	3.9	8.5	7.0	5.2	4.2	4.0	8.4	7.0	5.2	4.2	4.0	26.0
	28.0	7.6	6.8	5.2	4.2	3.8	7.6	6.9	5.2	4.2	3.8	7.4	7.0	5.2	4.2	3.9	28.0
ء	30.0	6.8	6.5	5.1	4.2	3.6	6.8	6.7	5.2	4.2	3.7	6.7	6.8	5.2	4.2	3.7	30.0
ls (n	32.0	6.1	6.3	5.0	4.1	3.5	6.1	6.3	5.0	4.1	3.5	6.0	6.2	5.1	4.2	3.6	32.0 g
radius (m)	34.0	5.5	5.7	4.8	3.9	3.3	5.5	5.7	4.9	4.0	3.4	5.4	5.6	5.0	4.1	3.4	34.0 ਫ਼੍ਰ
	36.0	5.0	5.2	4.7	3.8	3.2	4.9	5.1	4.7	3.9	3.3	4.8	5.0	4.8	3.9	3.3	32.0 Sorking radius (m) 36.0 38.0 (m)
Working	38.0	4.6	4.7	4.5	3.7	3.1	4.5	4.6	4.6	3.8	3.2	4.4	4.5	4.7	3.8	3.2	38.0
>	40.0			4.4	3.6	3.0		4.2	4.4	3.7	3.1	3.9	4.1	4.2	3.7	3.1	40.0
	42.0			4.0	3.5	2.9		3.8	4.0	3.6	3.0		3.7	3.9	3.6	3.0	42.0
	44.0				3.4	2.8			3.6	3.5	2.9		3.4	3.5	3.5	2.9	44.0
	46.0					2.8				3.4	2.8			3.2	3.3	2.9	46.0
	48.0					2.7				3.1	2.7				3.0	2.8	48.0
	50.0					2.6					2.7				2.7	2.7	50.0
	52.0															2.5	52.0
L	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Во	om length (m)			54.9					57.9					61.0			Boom length ((m)
J	ib length (m)	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	9.1	12.2	15.2	18.3	21.3	Jib length (n	1)
	18.0	9.5					9.5					9.5					18.0	
	20.0	9.5	7.0				9.5	7.0				9.5	7.0				20.0	
	22.0	9.5	7.0	5.2			9.5	7.0	5.2			9.5	7.0	5.2			22.0	
	24.0	9.4	7.0	5.2	4.2		9.3	7.0	5.2	4.2		9.2	7.0	5.2	4.2		24.0	
	26.0	8.3	7.0	5.2	4.2	4.1	8.1	7.0	5.2	4.2	4.1	8.1	7.0	5.2	4.2	4.1	26.0	
	28.0	7.3	7.0	5.2	4.2	3.9	7.2	7.0	5.2	4.2	4.0	7.1	7.0	5.2	4.2	4.0	28.0	
	30.0	6.5	6.8	5.2	4.2	3.8	6.4	6.6	5.2	4.2	3.8	6.3	6.6	5.2	4.2	3.8	30.0	
	32.0	5.8	6.0	5.2	4.2	3.6	5.7	5.9	5.2	4.2	3.7	5.6	5.9	5.2	4.2	3.7	32.0	
Œ	34.0	5.2	5.4	5.0	4.1	3.5	5.1	5.3	5.1	4.2	3.5	5.0	5.3	5.2	4.2	3.6	34.0	۷٥
radius	36.0	4.7	4.9	4.9	4.0	3.4	4.6	4.8	4.9	4.1	3.4	4.5	4.7	4.9	4.1	3.5	36.0	Working radius
g rac	38.0	4.2	4.4	4.6	3.9	3.3	4.1	4.3	4.4	3.9	3.3	4.0	4.2	4.4	4.0	3.4	38.0	grad
Working	40.0	3.8	4.0	4.1	3.8	3.2	3.7	3.8	4.0	3.8	3.2	3.6	3.8	3.9	3.9	3.3	40.0	dius
Wor	42.0	3.4	3.6	3.7	3.7	3.1	3.3	3.4	3.6	3.7	3.1	3.2	3.4	3.5	3.7	3.2	42.0	(E
	44.0	3.1	3.2	3.4	3.5	3.0	2.9	3.1	3.2	3.4	3.0	2.8	3.0	3.2	3.3	3.1	44.0	
	46.0			3.0	3.2	2.9		2.7	2.9	3.0	3.0	2.4	2.6	2.8	3.0	3.0	46.0	
	48.0			2.7	2.9	2.8			2.6	2.7	2.9		2.3	2.5	2.6	2.8	48.0	
	50.0				2.6	2.7			2.2	2.4	2.5		2.0	2.1	2.3	2.4	50.0	
	52.0					2.4				2.1	2.2			1.8	2.0	2.1	52.0	
	54.0					2.1					1.9				1.7	1.8	54.0	
	56.0										1.7					1.6	56.0	
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	



Ratings according to EN13000.

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.

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
- •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.

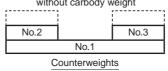
<Reference Information>

Main hoist loads

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

Assembling the counterweight

23.1 ton counterweight without carbody weight



Carbody weights

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

		ell Rati oom C				Without Carl Crawler Ful	eight: 23.1 t body Weight lly Extended Init: metric ton
Boom length Load (m) radius (m)	15.2	18.3	21.3	24.4			Boom length (m) Load radius (m)
7.0	10.0						7.0
8.0	10.0	10.0					8.0
9.0	10.0	10.0	10.0				9.0
10.0	10.0	10.0	10.0	9.4			10.0
11.0	10.0	10.0	10.0	9.3			11.0
12.0	10.0	10.0	10.0	9.3			12.0
13.0	10.0	10.0	10.0	9.3			13.0
14.0	10.0	10.0	10.0	9.3			14.0
15.0		10.0	10.0	9.3			15.0
16.0		9.8	9.9	9.0			16.0
17.0			9.3	8.8			17.0
18.0			8.6	8.6			18.0
19.0			7.9	8.2			19.0
20.0				7.6			20.0
21.0				7.1			21.0
22.0							22.0
23.0							23.0
24.0							24.0
25.0							25.0
26.0							26.0
27.0							27.0
28.0							28.0
29.0							29.0
30.0							30.0
31.0							31.0
32.0							32.0
33.0							33.0
Reeves	1	1	1	1			Reeves

SUPPLEMENTAL DATA FOR REDUCED WEIGHTS RATING CHART

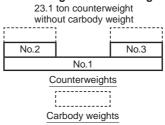
- Ratings according to EN13000.
- · Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based 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.

Countarwoight	Carbody weight	Boom	lenght
Counterweight	Carbody weight	Without aux.	With aux.
23.1 ton	Without	15.2 m \sim 57.9 m	15.2 m \sim 54.9 m

Assembling the counterweight



<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	108	216	324	431	539
Maximum Loads (t)	11.0	22.0	33.0	44.0	55.0
No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	647	755	863	971	1,079
Maximum Loads (t)	66.0	77.0	88.0	99.0	110.0

Auxiliary hoist loads

Auxiliary Holot loads		
No. of Parts of Line	1	2
Maximum Loads (kN)	108	216
Maximum Loads (t)	11.0	22.0

Weight of hook block								
Hook Block	110 t	70 t	35 t	Ball Hook				
Weight (t)	1.7	0.9	0.7	0.45				

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

Bigge



18

	Reduced Weights Rating Charts Crane Boom Lifting Capacities Counterweight: 23.1 Without Carbody Weigh Crawler Fully Extended Unit: metric to												
Boom length Working (m) radius (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	Boom length (m) Working radius (m)		
3.5	3.6m/94.2										3.5		
4.0	85.3	4.1m/83.3									4.0		
4.5	76.2	75.7	4.6m/69.2								4.5		
5.0	68.9	66.0	62.3	59.1							5.0		
5.5	58.9	58.4	55.5	52.8	5.5m/50.4	5.9m/44.6					5.5		
6.0	50.8	50.4	49.9	47.8	45.7	43.8	6.4m/39.2	6.8m/35.4			6.0		
7.0	39.6	39.3	39.0	38.7	38.4	37.0	35.6	34.4	7.3m/31.7	7.8m/28.6	7.0		
8.0	32.3	32.3	32.2	32.1	32.0	31.9	30.8	29.9	28.8	27.9	8.0		
9.0	27.2	27.2	27.2	27.2	27.2	27.1	27.0	26.3	25.4	24.7	9.0		
10.0	23.5	23.5	23.5	23.5	23.4	23.3	23.2	23.2	22.7	22.0	10.0		
12.0	18.2	18.2	18.2	18.2	18.1	18.0	18.0	17.9	17.9	17.7	12.0		
14.0	14.8	14.8	14.8	14.8	14.7	14.6	14.5	14.4	14.4	14.2	14.0		
16.0	14.4m/14.3	12.5	12.4	12.3	12.2	12.1	12.0	12.0	11.9	11.8	16.0		
18.0		17.1m/11.5	10.6	10.5	10.4	10.3	10.2	10.1	10.0	9.9	18.0		
20.0			19.7m/9.4	9.1	9.0	8.9	8.7	8.7	8.6	8.5	20.0		
22.0				8.0	7.9	7.7	7.6	7.6	7.5	7.4	22.0		
24.0				22.4m/7.8	7.0	6.8	6.7	6.7	6.6	6.4	24.0		
26.0					25.0m/6.5	6.1	5.9	5.9	5.8	5.7	26.0		
28.0						27.6m/5.6	5.3	5.3	5.1	5.0	28.0		
30.0							4.8	4.7	4.6	4.5	30.0		
32.0							30.3m/4.6	4.3	4.1	4.0	32.0		
34.0								32.9m/4.1	3.7	3.5	34.0		
36.0									35.6m/3.3	3.1	36.0		
38.0										2.8	38.0		
40.0										38.2m/2.6	40.0		
42.0											42.0		
44.0											44.0		
Reeves	10	8	7	6	5	5	4	4	3	3	Reeves		

Boom length Working (m) radius (m)	45.7	48.8	51.8	54.9	57.9			Boom length (m) Working radius (m)
8.0	8.2m/26.3	8.7m/24.0						8.0
9.0	23.9	23.2	9.1m/22.2	9.6m/20.3				9.0
10.0	21.3	20.8	20.1	19.5	18.9			10.0
12.0	17.4	17.0	16.5	16.0	15.5			12.0
14.0	14.1	14.0	13.8	13.4	13.0			14.0
16.0	11.6	11.6	11.4	11.4	11.0			16.0
18.0	9.8	9.7	9.6	9.6	9.4			18.0
20.0	8.3	8.3	8.1	8.1	8.0			20.0
22.0	7.2	7.1	7.0	7.0	6.8			22.0
24.0	6.3	6.2	6.1	6.0	5.9			24.0
26.0	5.5	5.4	5.3	5.3	5.1			26.0
28.0	4.9	4.8	4.6	4.6	4.5			28.0
30.0	4.3	4.2	4.1	4.0	3.8			30.0
32.0	3.8	3.7	3.5	3.5	3.3			32.0
34.0	3.3	3.3	3.1	3.0	2.8			34.0
36.0	2.9	2.9	2.7	2.6	2.4			36.0
38.0	2.6	2.5	2.3	2.2	2.1			38.0
40.0	2.2	2.2	2.0	1.9	1.7			40.0
42.0	40.8m/2.1	1.9	1.7	1.6				42.0
44.0		43.5m/1.6						44.0
46.0								46.0
48.0								48.0
50.0								50.0
52.0								52.0
54.0								54.0
56.0								56.0
58.0								58.0
Reeves	3	3	3	2	2			Reeves

Ratings according to EN13000.

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

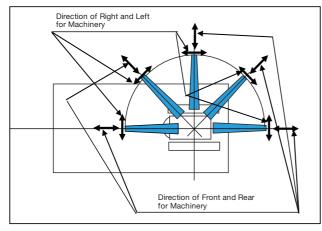
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

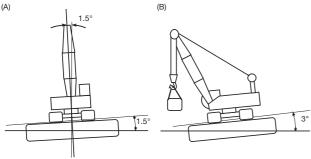




SUPPLEMENTAL DATA FOR BARGE RATING CHART

- · 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 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 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 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)	108	216	324	431	539
Maximum Loads (t)	11.0	22.0	33.0	44.0	55.0

No. of Parts of Line	6
Maximum Loads (kN)	618
Maximum Loads (t)	63.0

Auxiliary hoist loads

No. of Parts of Line	1	2
Maximum Loads (kN)	108	216
Maximum Loads (t)	11.0	22.0

Weight of Hook Block								
Hook Block	110 t	70 t	35 t	Ball Hook				
Weight (t) 1.7 0.9 0.7 0.45								

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

	Barge Raiting Chart Crane Boom Lifting Capacities Counterweight: 3c Carbody Weight: 6c Crawler Fully Exten Unit: metric											
Boom length Load (m) radius (m)	45.0	18.3	21.3	24.4	27.4	30.5	33.5	36.6	Boom length (m) Load radius (m)			
5.0	63.0	5.5m/54.4							5.0			
6.0	52.8	52.6	6.2m/46.4	6.9m/39.9					6.0			
7.0	44.5	44.3	44.2	39.7	7.6m/35.1				7.0			
8.0	37.7	37.5	37.4	37.0	34.5	7.6m/30.8			8.0			
9.0	32.4	32.3	32.2	31.9	31.7	29.9	27.4	9.6m/24.9	9.0			
10.0	28.3	28.2	28.0	28.0	27.9	27.8	26.5	24.5	10.0			
12.0	21.4	22.0	21.9	21.8	21.7	21.6	21.5	21.4	12.0			
14.0	16.3	17.2	17.7	18.0	17.9	17.8	17.7	17.6	14.0			
16.0	14.4m/15.3	13.5	14.0	14.9	15.3	15.2	15.1	15.0	16.0			
18.0		17.1m/11.9	11.3	12.2	12.8	13.2	13.1	13.0	18.0			
20.0			19.7m/9.5	10.1	10.7	11.2	11.5	11.4	20.0			
22.0				8.4	9.0	9.5	9.8	10.0	22.0			
24.0				22.4m/8.1	7.6	8.1	8.4	8.7	24.0			
26.0					25.0m/7.0	6.9	7.2	7.6	26.0			
28.0						27.6m/6.0	6.2	6.6	28.0			
30.0							5.4	5.7	30.0			
32.0							30.3m/5.3	5.0	32.0			
34.0								32.9m/4.7	34.0			
Reeves	6	5	5	4	4	3	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 structual components.

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

TRANSPORTATION PLAN

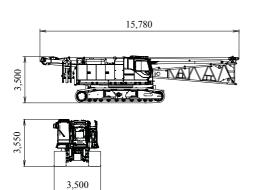
Name	Dimension		Weight (kg)
Base Machine Boom base Gantry Crawler Wire rope (Front / rear / boom hoist)	15,780 009 8°	3,500	57,410
Base Machine Gantry Crawler Wire rope (Front / rear / boom hoist)	9,420	3,500	54,090
Base Machine • Boom base • Gantry • Wire rope (Front / rear / boom hoist) • Without crawler	15,780 000 000 000 000 000 000 000 000 000	2,990	33,550
Base Machine • Gantry • Wire rope (Front / rear / boom hoist) • Without crawler	8,650 000 8 3,500	2,990	30,230
Crawler	6,770	900	11,930

·		

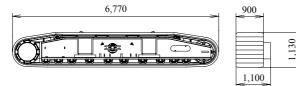
PARTS AND ATTACHMENTS

Base Machine

Boom base, Gantry, Crawler, Wire rope (Front/rear/boom hoist) Weight: 57,410 kg Width: 3,500 mm

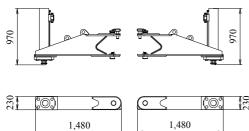


Crawler Weight: 11,930 kg

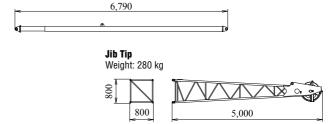


Translifter Weight: 320 kg / 1 piece





Backstop Weight: 440 kg

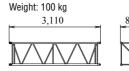


Jib Base





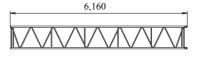
3.0 m Jib Insert





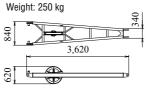
6.0 m Jib Insert







Strut

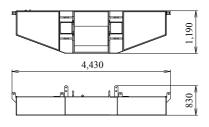


Auxiliary Sheave Weight: 300 kg



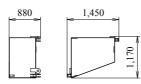
Counterweight No.1

Weight: 11,600 kg



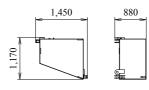
Counterweight No.3, No.5 (R)

Weight: 5,750 kg



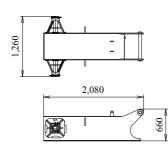
Counterweight No.2, No.4 (L)

Weight: 5,750 kg



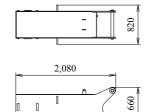
Carbody Weight (With float)

Weight: 3,320 kg / 1 piece



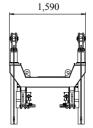
Carbody Weight (Without float)

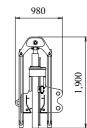
Weight: 3,250 kg / 1 piece



Self Removal Unit

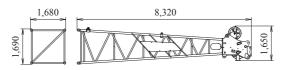
Weight: 870 kg



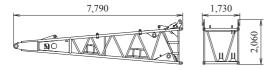


25

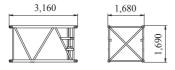
Boom Tip Weight: 1,525 kg



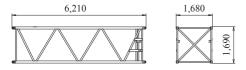
Boom Base Weight: 2,235 kg



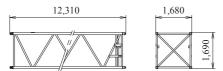
3.0 m **Boom Insert** Weight: 380 kg



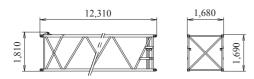
6.1 m **Boom Insert** Weight: 655 kg



12.2 m **Boom Insert** Weight: 1,195 kg

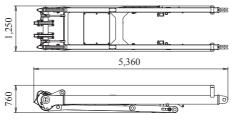


12.2 m Boom Insert (with Lug) Weight: 1,220 kg

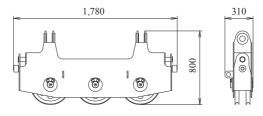


Gantry

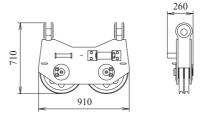
Weight: 1,320 kg



Upper Spreader Weight: 300 kg



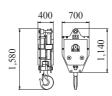
Lower Spreader Weight: 200 kg



Ball Hook Weight: 450 kg

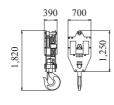


35 t Hook Weight: 700 kg



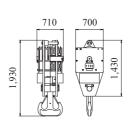
70 t Hook

Weight: 900 kg



110 t Hook

Weight: 1,700 kg



Bigge



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.

Copyright by KOBELCO CRANES CO., LTD. No part of this catalog may be reproduced in any manner without notice.

KOBELCO CRANES CO., LTD.

Inquiries To:

17-1, Higashigotanda 2-chome, Shinagawa-ku,Tokyo 141-8626 JAPAN Tel: +81-3-5789-2130 Fax: +81-3-5789-3372

URL: http://www.kobelco-cranes.com/

KOBELCO is the corporate mark used by Kobe Steel on a variety of products and in the names of a number of Kobe Steel Group companies.

Bulletin No. CKS1100-SPEC-NR1