Hydraulic Crawler Crane





800G

Max. Lifting Capacity : **80 t x 3.0 m** Max. Crane Boom Length : **54.9 m** Max. Fixed Jib Combination: **42.7 m + 18.3 m 45.7 m + 12.2 m** Model : CKE800G-2



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CKE800G-2 CONTENTS

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SPECIFICATIONS



Power Plant

Model: HINO J08E-VV

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

Complies with NRMM (Europe) Stage IV and US EPA Tier 4 Final

Displacement: 7,684 liters

Rated power: 213 kW/2100 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

AdBlue® tank capacity: 60 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



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 16mm dia. wire rope

Line Speed: Single line on first drum layer

Hoisting/Lowering: 70 to 2 m/min

Boom hoisting/lowering: 16 mm x 150 m (5/8 in. x 492 ft) Boom guy line: 30 mm (1-3/16 in.)

Boom backstops: Required for all boom length

Load Hoisting System

Front and rear drums for load hoist powered by 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 Drum:

550 mm P.C.D x 545 mm wide drum, grooved for 22 mm wire rope. Rope capacity is 220 m working length and 335 m storage length.

Rear Drum: 550 mm P.C.D x 545 mm wide drum, grooved for 22 mm wire rope. Rope capacity is 130 m working length and 335m storage length.

Diameter of wire rope

Main winch: 22 mm x 220 m **Aux. winch:** 22 mm x 130 m

Third winch: 22 mm x 145 m

Line Speed*:

Hoisting/lowering: 120 to 3 m/min

Line Pull:

Max. Line Pull*: 153 kN {15.5 tf} (Referential performance)

Rated Line Pull: 78 kN {8.0 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:** 4.0 min⁻¹



Upper Structure

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

Counter weight: 27.2 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 retractedfor 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): 800 mm wide each crawler Max. gradeability: 40%



Weight

Including upper and lower machine, 27.2 ton counterweight and 6.5 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 75.7 ton

Ground pressure: 84.8 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	9.1 m	54.9 m	
Fixed lib	30.5 m + 6.1 m	42.7 m + 18.3 m,	
	30.3 m + 0.1 m	45.7 m + 12.2 m	

Main Specifications (Model: CKE800G-2)				
Crane Boom				
Max. Lifting Capacity	80 t x 3.0 m			
Max. Length	54.9 m			
Fixed Jib				
Max. Lifting Capacity	7.0 t x 20.0 m			
Max. Combination	42.7 m + 18.3, 45.7 m +12.2 m			
Main & Aux. Winch				
Max. Line Speed (1st layer)	120 m/min			
Rated Line Pull (Single line)	78 kN {8.0 tf}			
Wire Rope Diameter	22 mm			
Wire Rope Length	220 m (Main), 130 m (Aux.)			
Brake Type (Free fall)	Wet-type multiple disc brake (Optional)			
Working Speed				
Swing Speed	4.0 min ⁻¹ {rpm}			
Travel Speed 1.7/1.1 km/h				
Power Plant				
Model	HINO J08E-VV			
Engine Output	213 kW/2100 min ⁻¹			
Fuel Tank	400 liters			
AdBlue [®] Tank	60 liters			

Hydraulic System				
Main Pums 3 variable displacement				
Max. Pressure	31.9 Mpa {325 kg/cm ² }			
Hydraulic Tank Capacity 440 liters				
Self-Removal Device				
	Counterweight/self-removal device(option)			
Weight				
Operating Weight	75.7 t *1			
Ground Pressure 84.8 kPa				
Counterweight	27,180 kg			
Transport Weight	39,780 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, 27.2 ton counterweight, 6.5 ton carbody weight, basic boom, hook, and other accessories.

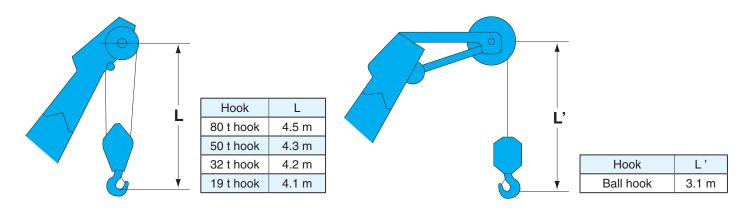
*2 Base machine with boom base, gantry, crawlers, and wire ropes (front/rear/ boom hoist)

GENERAL DIMENSIONS

(Unit: mm) 3,500 800 R4,300 * ⁸⁴SC ⁸⁰0₁₄.9,100 5,140 3,415 1,100 2,990 1,495 940 6,170 2,085 3,380 3,300 1,750 390 1,100 3,500 (CRAWLER RETRACTED) 5,440 5,130 (CRAWLER EXTENDED) 6,280

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

Limit of Hook Lifting



5

BOOM AND JIB ARRANGEMENTS

Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
9.1 (30)	* 🖘
12.2 (40)	* 🖅
15.2 (50)	20 20 20 20
18.3 (60)	× < <u>∎10 20</u> > < <u>∎ 30</u> >
21.3 (70)	< <u>€201201</u> > < <u>€1001301</u> > ※ < <u>€100101201</u> >
24.4 (80)	※ < 100 20 >> < € 20 30 >> < € 100 100
27.4 (90)	※ < <u>∎to[20 30</u>]> < <u>∎to[30 30</u>]> < <u>∎to[10 20 20</u>]>
30.5 (100)	
33.5 (110)	St 20 1 30 1 30 1 St 10 10 1 30 1 30 1 St 10 10 1 30 1 30 1 St 10 10 1 30 1 30 1 X ≤ 10 1 20 1 20 1 30 1
36.6 (120)	※ < 100 20 100 100 < 50 100 100 100 100 < 50 100 100 100

Boom ength m (ft)	Во	om arrangement		
39.6 (130)	< <u>₹20 [20] 30 [30]</u> < <u>₹10 [10 [20] 30 [30]</u> × < <u>₹10 [20] 20 [20 [30]</u> × < <u>₹10 [20] 20 [20 [30]</u> < <u>₹10] 30 [30] 30]</u>			
42.7 (140)				
45.7 (150)		30 b		
48.8 (160)	< <u>₹20 20 30 30 30 30 10</u> ※ < <u>₹10 10 20 30 30 30 10</u>			
51.8 (170)	× < <u>€[10] 20] 20] 30] 30] 30]</u> > < <u>€[10]10 20] 20] 20] 30] 30]</u> >			
54.9 (180)				
Symbol	Boom Length	Remarks		
, (1)	5.2 m	Boom Base		
\triangleright	3.9 m Boom Top			
10	3.0 m	Insert Boom		
20	6.1 m	Insert Boom		
20	6.1 m	Insert Boom with lug		
30	9.1 m	Insert Boom		
30	9.1 m Insert Boom with lug			

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

Fixed Jib Arrangements

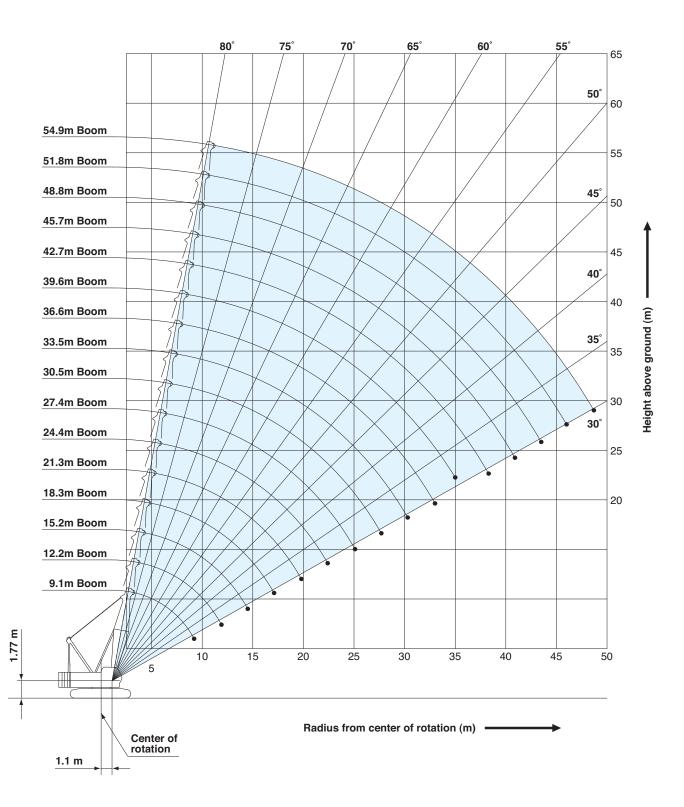
Fixed Jib
воом
H

Crane boom length	Jib length m (ft)	Jib arrangement	
30.5 m ~ 45.7 m	6.1 (20)		
50.5 III ~ 45.7 III	12.2 (40)	B 20 T	
30.5 m ~ 42.7 m	18.3 (60)	────────────────────────────────────	

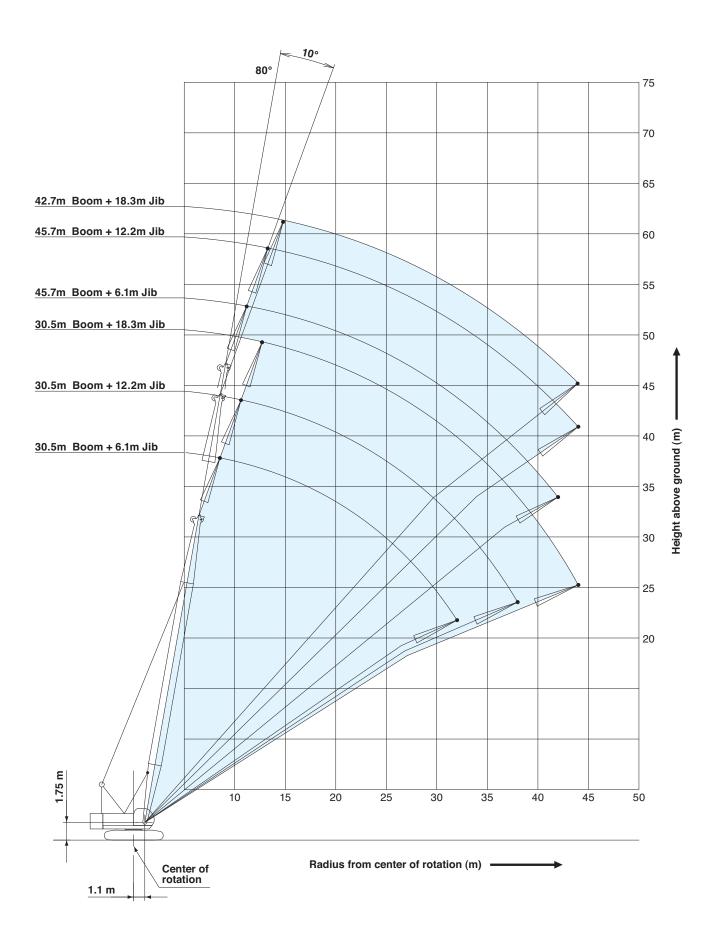
Symbol	Jib Length	Remarks	
В	3.0 m	Jib Base	
T	3.0 m	Jib Top	
20	6.1 m	Insert Jib	

WORKING RANGES

Crane Boom

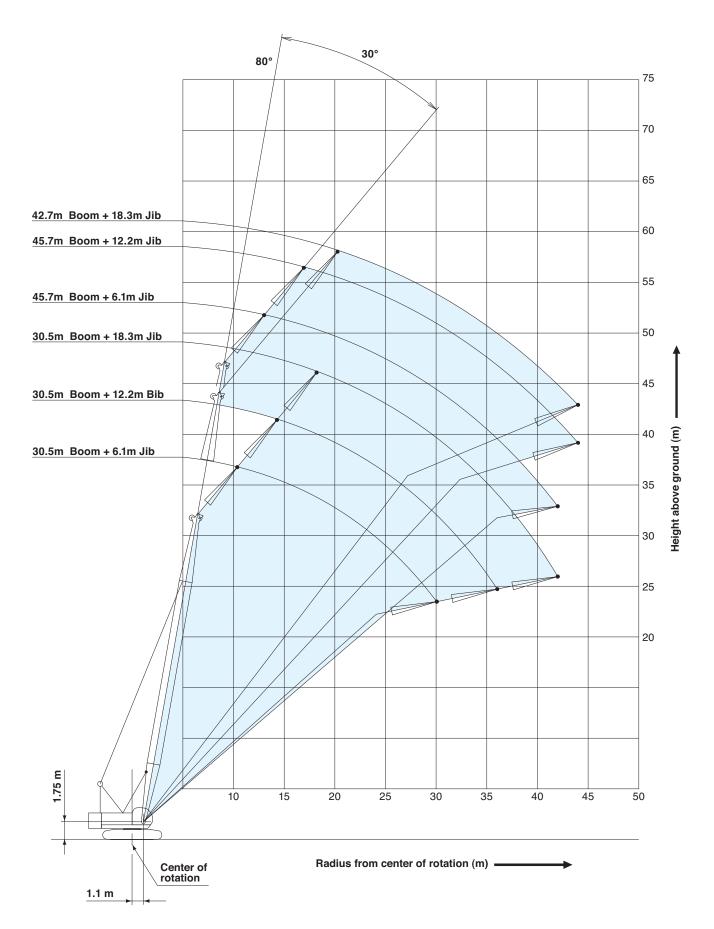


Fixed Jib 10°



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 equipment.

The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.

- $\bullet Ratings$ 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 1.1 (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 30.5 m to 45.7 m.

But 18.3 m jib is not allowed to install on 45.7 m main boom.

<Reference Information> Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	78	157	235	314	392
Maximum Loads (t)	8.0	16.0	24.0	32.0	40.0
					10
No. of Parts of Line	6	1	8	9	10
Maximum Loads (kN)	471	549	628	706	785
Maximum Loads (t)	48.0	56.0	64.0	72.0	80.0

Auxiliary hoist loads

1
69
7.0

Weight of hook block					
Hook Block	80 t	50 t	32 t	19 t	Ball Hook
Weight (t)	0.8	0.7	0.5	0.4	0.16

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

Assembling the counterweight (standard type)

27.2 ton counterweight

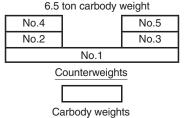
6.5 ton carbody weight								
No.4		No.5						
No.3								
	No.2							
No.1								

Counterweights

Ca	urbody weight	s

Assembling the counterweight (optional type)

(Equipped with self removal device) 26.1 ton counterweight



•The lifting capacity does not change due to the type of counterweights. (standard or optional)

LIFTING CAPACITIES

	Crane Boom Lifting Capacities Counterweight: 27.2 t Carbody Weight: 6.5 t Unit: metric ton																
																Unit:	
Boom Length Working (m) radius (m)	9.1	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	Boom Length (m) Working radius (m)
3.0	80.0	3.6m/76.2															3.0
4.0	69.0	72.6	4.2m/69.6	4.7m/59.3													4.0
5.0	57.9	57.7	57.5	55.1	5.2m/50.0	5.7m/42.9											5.0
6.0	47.5	47.3	46.7	44.6	42.6	40.8	6.3m/37.2	6.8m/33.0									6.0
7.0	39.8	39.6	38.9	37.3	35.8	34.5	33.3	32.0	7.3m/29.5	7.9m/26.4							7.0
8.0	32.9	32.7	32.5	32.0	30.9	29.8	28.8	27.8	26.9	26.0	8.4m/24.0						8.0
9.0	26.0	27.8	27.6	27.5	27.0	26.2	25.4	24.5	23.8	23.1	22.4	21.7	9.4m/20.1				9.0
10.0	9.2m/24.5	24.1	23.9	23.8	23.7	23.3	22.6	21.9	21.3	20.6	20.0	19.4	19.0	18.4	10.5m/17.1	11.0m/15.7	10.0
12.0		11.9m/19.3	18.8	18.7	18.6	18.5	18.4	17.9	17.4	16.9	16.5	16.0	15.6	15.1	14.8	14.4	12.0
14.0			15.4	15.3	15.1	15.0	14.9	14.8	14.7	14.2	13.9	13.5	13.2	12.8	12.5	12.1	14.0
16.0			14.5m/14.7	12.9	12.7	12.6	12.5	12.3	12.2	12.1	11.9	11.5	11.3	10.9	10.7	10.4	16.0
18.0				17.1m/11.8	10.9	10.8	10.7	10.5	10.4	10.3	10.2	10.0	9.8	9.4	9.3	9.0	18.0
20.0					19.8m/9.6	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.3	8.1	7.8	20.0
22.0						8.2	8.1	7.9	7.8	7.7	7.6	7.5	7.4	7.2	7.1	6.9	22.0
24.0						22.4m/8.0	7.2	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2	6.1	24.0
26.0							25.1m/6.8	6.2	6.1	6.0	5.9	5.7	5.6	5.5	5.4	5.3	26.0
28.0								27.7m/5.7	5.5	5.4	5.2	5.1	5.0	4.9	4.8	4.7	28.0
30.0									4.9	4.8	4.7	4.5	4.4	4.3	4.2	4.1	30.0
32.0									30.3m/4.9	4.3	4.2	4.0	3.9	3.8	3.7	3.6	32.0
34.0										33.0m/4.1	3.8	3.6	3.5	3.4	3.3	3.2	34.0
36.0											35.0m/3.5	3.3	3.2	3.0	2.9	2.8	36.0
38.0												2.9	2.8	2.7	2.6	2.5	38.0
40.0												38.3m/2.9	2.6	2.4	2.3	2.2	40.0
42.0													40.9m/2.4	2.1	2.0	1.9	42.0
44.0														43.5m/2.0	1.8	1.7	44.0
46.0															1.6	1.5	46.0
48.0																1.3	48.0
50.0																48.7m/1.2	50.0
Reeves	10	10	9	8	7	6	5	5	4	4	3	3	3	3	3	2	Reeves

Note:

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.

Fixed Jib Lifting Capacities (Jib Offset Angle : 10°)

Counterweight: 27.2 t Carbody Weight: 6.5 t

Unit: metric ton

	•									011	II. INCLICTION
В	oom length (m)		30.5			33.5			36.6		Boom length (m)
	ib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)
	9.0	7.0			7.0						9.0
	10.0	7.0			7.0			7.0			10.0
	12.0	7.0	7.0	4.5	7.0	7.0		7.0	7.0		12.0
	14.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5	14.0
	16.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5	16.0
	18.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5	18.0
	20.0	6.8	7.0	4.5	6.8	6.9	4.5	6.7	6.9	4.5	20.0
<u>-</u>	22.0	6.1	6.4	4.5	6.0	6.2	4.5	5.9	6.2	4.5	22.0 🗧
Working radius (m)	24.0	5.4	5.6	4.5	5.2	5.5	4.5	5.1	5.4	4.5	22.0 Working radius (m) 22.0 30.0 (m)
adit	26.0	4.7	5.0	4.5	4.6	4.8	4.5	4.5	4.8	4.5	26.0
lgi	28.0	4.2	4.4	4.5	4.1	4.3	4.4	4.0	4.2	4.3	28.0 ^{ad}
ork	30.0	3.8	4.0	4.1	3.6	3.8	3.9	3.5	3.7	3.9	30.0 ¹⁰
\$	32.0	3.4	3.6	3.7	3.2	3.4	3.5	3.1	3.3	3.5	32.0 3
	34.0		3.2	3.3	2.9	3.1	3.2	2.8	3.0	3.1	34.0
	36.0		2.9	3.0	2.6	2.8	2.9	2.5	2.7	2.8	36.0
	38.0		2.6	2.8		2.5	2.6	2.2	2.4	2.5	38.0
	40.0			2.5		2.3	2.4		2.1	2.3	40.0
	42.0			2.3		2.0	2.1		1.9	2.0	42.0
	44.0			2.1			1.9		1.6	1.8	44.0
	Reeves	1	1	1	1	1	1	1	1	1	Reeves

Во	oom length (m)		39.6			42.7			45.7	Boom leng	gth (m)
J	lib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	Jib lengt	.h (m)
	10.0	7.0								10.0	
	12.0	7.0			7.0			7.0		12.0	
	14.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	14.0	
	16.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	16.0	
	18.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	18.0	
	20.0	6.6	6.7	4.5	6.6	6.7	4.5	6.5	6.6	20.0	
	22.0	5.8	6.0	4.5	5.7	6.0	4.5	5.6	5.8	22.0	
E	24.0	5.0	5.3	4.5	4.9	5.2	4.5	4.8	5.1	24.0	Working
lius	26.0	4.4	4.6	4.5	4.3	4.5	4.5	4.2	4.4	26.0	king
] rac	28.0	3.9	4.1	4.2	3.8	4.0	4.1	3.6	3.9	28.0	g rao
Working radius	30.0	3.4	3.6	3.7	3.3	3.5	3.6	3.2	3.4	30.0	
§	32.0	3.0	3.2	3.3	2.9	3.1	3.2	2.7	3.0	32.0	
	34.0	2.6	2.9	3.0	2.5	2.8	2.9	2.3	2.6	34.0	
	36.0	2.3	2.5	2.7	2.2	2.4	2.6	2.0	2.2	36.0	
	38.0	2.0	2.2	2.4	1.8	2.1	2.2	1.6	1.9	38.0	
	40.0	1.7	1.9	2.1	1.6	1.8	2.0	1.4	1.6	40.0	
	42.0		1.7	1.8	1.3	1.6	1.7	1.1	1.4	42.0	
	44.0		1.4	1.6	1.1	1.3	1.5		1.1	44.0	
	Reeves	1	1	1	1	1	1	1	1	Reeve	s

Note:

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.

LIFTING CAPACITIES

Fixed Jib Lifting Capacities (Jib Offset Angle : 30°)

Counterweight: 27.2 t Carbody Weight: 6.5 t

Вс	om length (m)		30.5			33.5			Boom length (m)		
	ib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)
	12.0	7.0			7.0			7.0			12.0
	14.0	7.0			7.0			7.0			14.0
	16.0	7.0	5.0		7.0	5.0		7.0	5.0		16.0
	18.0	7.0	5.0	3.2	7.0	5.0	3.2	7.0	5.0		18.0
	20.0	6.9	5.0	3.2	6.8	5.0	3.2	6.8	5.0	3.2	20.0
	22.0	6.2	5.0	3.2	6.1	5.0	3.2	6.1	5.0	3.2	22.0
	24.0	5.5	5.0	3.2	5.4	5.0	3.2	5.3	5.0	3.2	24.0 ≤
radius (m)	26.0	4.8	4.9	3.2	4.7	5.0	3.2	4.6	5.0	3.2	26.0 ^k
adiu	28.0	4.3	4.6	3.2	4.2	4.5	3.2	4.1	4.4	3.2	28.0 ^m g
l gr	30.0	3.8	4.1	3.1	3.7	4.0	3.2	3.6	3.9	3.2	30.0 di
Working	32.0		3.7	3.0	3.3	3.6	3.0	3.2	3.5	3.1	24.0 26.0 28.0 30.0 32.0 24.0
∣≥	34.0		3.3	2.8		3.2	2.9	2.9	3.1	3.0	34.0 [≞]
	36.0		3.0	2.7		2.9	2.8		2.8	2.9	36.0
	38.0			2.6		2.6	2.7		2.5	2.7	38.0
	40.0			2.5			2.5		2.2	2.5	40.0
	42.0			2.4			2.3			2.2	42.0
	44.0						2.1			2.0	44.0
	Reeves	1	1	1	1	1	1	1	1	1	Reeves

В	om length (m)		39.6			42.7			45.7	Boom length (m)	n)
	ib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	Jib length (m)	
	12.0	7.0								12.0	
	14.0	7.0			7.0			7.0		14.0	
	16.0	7.0	5.0		7.0			7.0		16.0	
	18.0	7.0	5.0		7.0	5.0		7.0	5.0	18.0	
	20.0	6.6	5.0	3.2	6.6	5.0	3.2	6.6	5.0	20.0	
	22.0	5.9	5.0	3.2	5.9	5.0	3.2	5.8	5.0	22.0	
<u>-</u>	24.0	5.2	5.0	3.2	5.1	5.0	3.2	5.0	5.0	24.0	≤
Working radius (m)	26.0	4.5	4.9	3.2	4.4	4.8	3.2	4.3	4.7	24.0 × 26.0 × 28.0 × 30.0 × 32	ork
adit	28.0	4.0	4.3	3.2	3.9	4.3	3.2	3.8	4.2	28.0	no
ngr	30.0	3.5	3.8	3.2	3.4	3.8	3.2	3.3	3.7	30.0 ^g	adi
orki	32.0	3.1	3.4	3.2	3.0	3.3	3.2	2.9	3.2	32.0	is (n
\$	34.0	2.7	3.0	3.1	2.6	3.0	3.2	2.4	2.9	34.0	-1
	36.0	2.3	2.7	2.9	2.2	2.6	2.8	2.1	2.5	36.0	
	38.0	2.0	2.4	2.6	1.9	2.3	2.5	1.7	2.1	38.0	
	40.0		2.1	2.3	1.6	2.0	2.3	1.4	1.8	40.0	
	42.0		1.8	2.1		1.7	2.0	1.2	1.5	42.0	
	44.0		1.5	1.8		1.4	1.7		1.3	44.0	
	Reeves	1	1	1	1	1	1	1	1	Reeves	

Note:

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 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.
- •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>

Main hoist loads

ŝ

No. of Parts of Line	1
Maximum Loads (kN)	69
Maximum Loads (t)	7.0

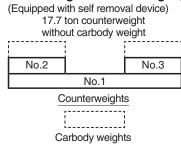
Assembling the counterweight (standard type)

22.8 ton cou	nterweight
without carb	ody weight
,	· ,

	!
No.3	
No.2	
No.1	

Counterweights	
Carbody weights	

Assembling the counterweight (optional type)



•The lifting capacity does not change due to the type of counterweights. (standard or optional)

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

LIFTING CAPACITIES

Cla Cr	amsh ane B	ell Rati oom C	ing Ch apacit	arts ties		Counterweight: 22. Without Carbody Weig Crawler Fully Extend Unit: metric	led
Boom length Load (m) radius (m)	9.1	12.2	15.2	18.3	21.3	Boom length (m) rad	Load lius (m)
5.0	7.0					5.0	
5.5	7.0					5.5	
6.0	7.0	7.0				6.0	
7.0	7.0	7.0	7.0			7.0	
8.0	7.0	7.0	7.0	7.0		8.0	
9.0	7.0	7.0	7.0	7.0	7.0	9.0	
10.0		7.0	7.0	7.0	7.0	10.0	
12.0			7.0	7.0	7.0	12.0	
14.0			7.0	7.0	7.0	14.0	
16.0				7.0	7.0	16.0	
18.0					7.0	18.0	
20.0						20.0	
22.0						22.0	
24.0						24.0	
26.0						26.0	
28.0						28.0	
30.0						30.0	-
32.0						32.0	
34.0						34.0	
36.0						36.0	
38.0						38.0	
40.0						40.0	
42.0						42.0	
44.0						44.0	
Reeves	1	1	1	1	1	Reeve	s

Note:

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 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 1.1(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.

Main hoist loads

maint fieldt leddde					
No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	78	157	235	314	392
Maximum Loads (t)	8.0	16.0	24.0	32.0	40.0
No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	471	549	628	706	785
Maximum Loads (t)	48.0	56.0	64.0	72.0	80.0

Auxiliary hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	69
Maximum Loads (t)	7.0

Weight of hook block									
Hook Block 80 t 50 t 32 t 19 t 7.0 t Ball Hook									
Weight (t)	0.8	0.7	0.5	0.4	0.16				

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

<Reference Information>

Assembling the counterweight (standard type)

22.8 ton counterweight

without car	body w	eight
N	lo.3	
N	lo.2	
N	lo.1	
Counte	erweight	s

Larbody weights

Assembling the counterweight (optional type)

(Equipped with self removal device)

17.7 ton count without carbod	0
No.2	No.3
No.1	
Counterwe	ights
Carbody we	eights

•The lifting capacity does not change due to the type of counterweights. (standard or optional)

LIFTING CAPACITIES

		ed W Boon								Witho	unterweig ut Carbod vler Fully I Unit:	y Weight Extended metric ton
Boom length Load (m) radius (m)	9.1	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	Boom length (m) Load radius (m)
3.0	3.0m/73.8											3.0
3.5	68.7	3.6m/66.9										3.5
4.0	64.4	63.1	4.2m/58.4									4.0
4.5	55.4	55.4	53.3	4.7m/47.4								4.5
5.0	45.9	45.8	45.8	44.0	5.2m/38.9							5.0
5.5	39.2	39.1	39.0	39.0	37.2	5.7m/33.4						5.5
6.0	34.1	34.0	33.9	33.9	33.7	32.2	6.3m/29.2	6.8m/25.7				6.0
7.0	27.0	26.9	26.8	26.8	26.7	26.6	26.0	24.9	7.3m/22.7	7.9m/20.3		7.0
8.0	22.3	22.2	22.1	22.1	22.0	21.9	21.8	21.6	20.8	20.1	8.4m/18.4	8.0
9.0	19.0	18.9	18.7	18.7	18.6	18.5	18.4	18.3	18.3	17.7	17.1	9.0
10.0	9.2m/18.5	16.3	16.2	16.2	16.1	16.0	15.9	15.8	15.7	15.6	15.2	10.0
12.0		11.9m/12.9	12.7	12.6	12.5	12.4	12.3	12.2	12.2	12.0	12.0	12.0
14.0			10.3	10.3	10.2	10.1	10.0	9.8	9.8	9.7	9.6	14.0
16.0			14.5m/9.9	8.6	8.5	8.4	8.3	8.1	8.1	8.0	7.9	16.0
18.0				17.1m/7.9	7.2	7.1	7.0	6.9	6.8	6.7	6.6	18.0
20.0					19.8m/6.3	6.2	6.0	5.9	5.9	5.7	5.6	20.0
22.0						5.4	5.3	5.1	5.1	4.9	4.8	22.0
24.0						22.4m/5.3	4.6	4.5	4.4	4.3	4.2	24.0
26.0							25.1m/4.3	4.0	3.9	3.8	3.7	26.0
28.0								27.7m/3.5	3.5	3.3	3.2	28.0
30.0									3.1	2.9	2.8	30.0
32.0									30.3m/3.0	2.6	2.4	32.0
34.0										33.0m/2.3	2.1	34.0
36.0											35.0m/1.9	36.0
Reeves	10	9	8	6	5	5	4	4	3	3	3	Reeves

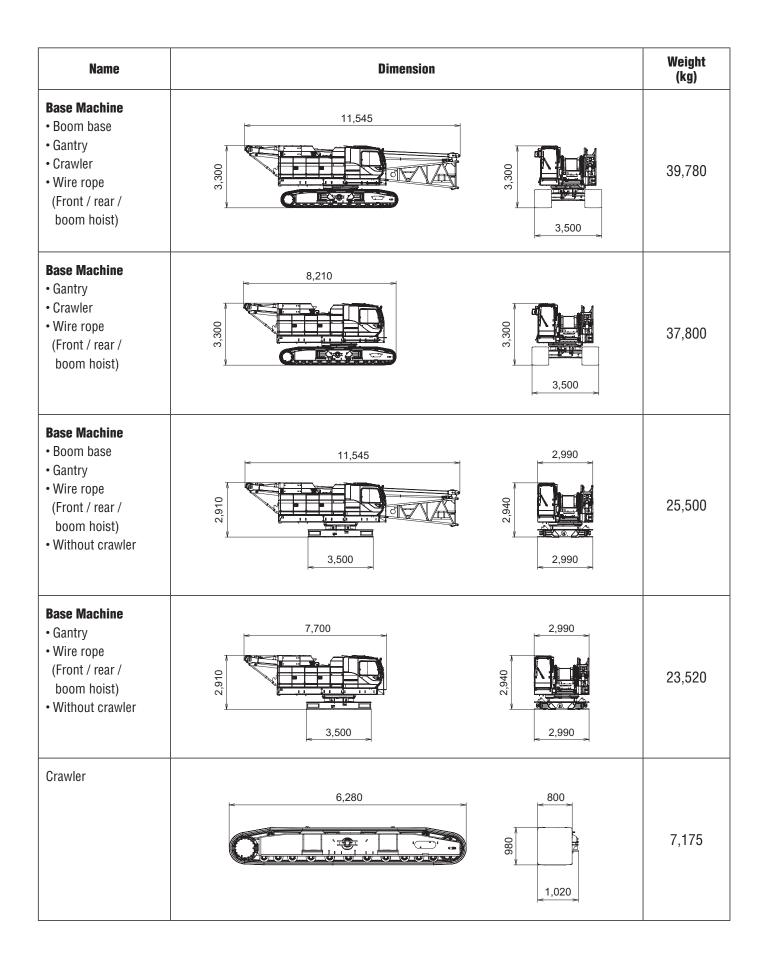
Boom length Load (m) radius (m)	42.7m	45.7m	48.8m	51.8m				Boom length (m) Load radius (m)
9.0	9.0m/16.5	9.4m/15.0						9.0
10.0	14.7	14.2	10.0m/13.7	10.5m/12.6				10.0
12.0	11.8	11.5	11.1	10.8				12.0
14.0	9.4	9.4	9.2	8.9				14.0
16.0	7.7	7.7	7.6	7.5				16.0
18.0	6.5	6.4	6.3	6.2				18.0
20.0	5.5	5.4	5.3	5.2				20.0
22.0	4.7	4.7	4.5	4.4				22.0
24.0	4.1	4.0	3.9	3.8				24.0
26.0	3.5	3.5	3.3	3.2				26.0
28.0	3.1	3.0	2.9	2.7				28.0
30.0	2.6	2.6	2.4	2.3				30.0
32.0	2.3	2.2	2.1	1.9				32.0
34.0	2.0	1.9	1.7	1.6				34.0
36.0	1.7	1.6	1.4	1.3				36.0
38.0	1.4	1.3	1.2	1.1				38.0
40.0	38.3m/1.3	1.1						40.0
42.0								42.0
44.0								44.0
46.0								46.0
48.0								48.0
50.0								50.0
Reeves	3	2	2	2				Reeves

Note:

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.

TRANSPORTATION PLAN



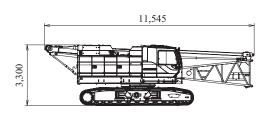


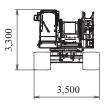


PARTS AND ATTACHMENTS

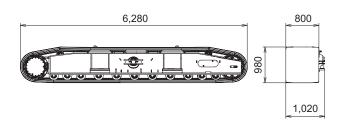
Base Machine

Boom base, Gantry, Crawler, Wire rope (Front/rear/boom hoist) Weight: 39,780 kg Width: 3,500 mm





Crawler Weight: 7,175 kg

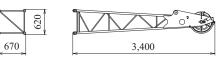


Backstop

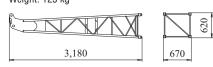
Weight: 245 kg



Jib Tip Weight: 145 kg

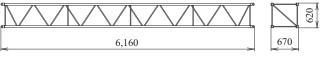


Jib Base Weight: 125 kg

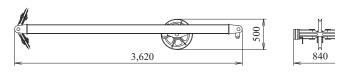


6.1 m Jib Insert

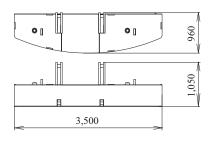
Weight: 140 kg



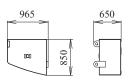
Jib Strut Weight: 190 kg



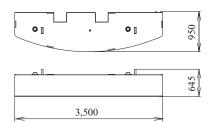
Counterweight No.1 Weight: 8,520 kg



Counterweight No.4 (L) Weight: 1,660 kg

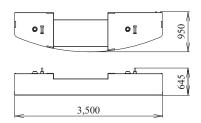


Counterweight No.2 Weight: 7,850 kg

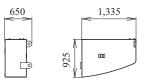




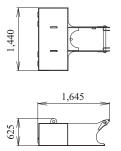
Weight: 6,410 kg

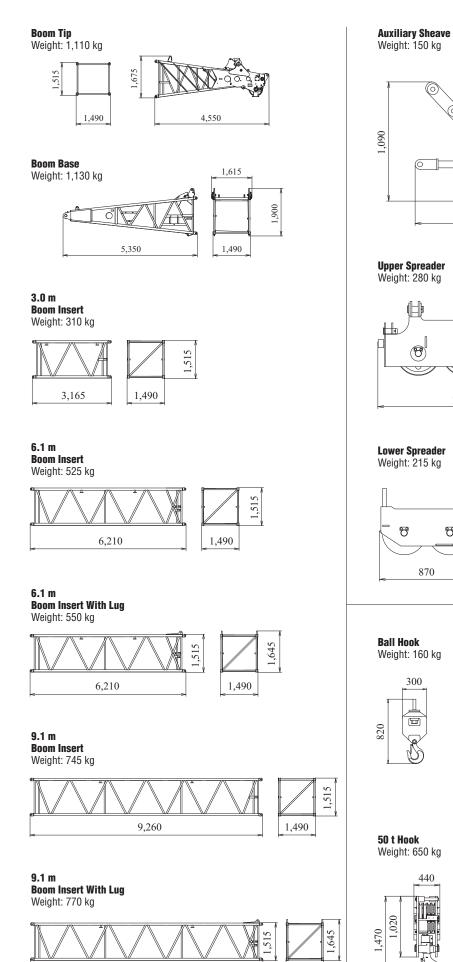


Counterweight No.4 (R) Weight: 2,740 kg



Carbody Weight Weight: 3,250 kg / 1 piece

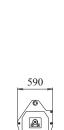




9,260



1,490



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6

1,270

1,120

(7)

1,580

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870

300

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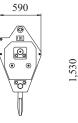
8

(H)

(8)



19t



470

 \bigcirc

0

300

П

610

280

19 t Hook

390

Weight: 400 kg

680

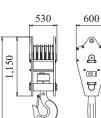
Weight: 500 kg 330

32 t Hook

1,090



1,710





80 t Hook Weight: 800 kg



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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