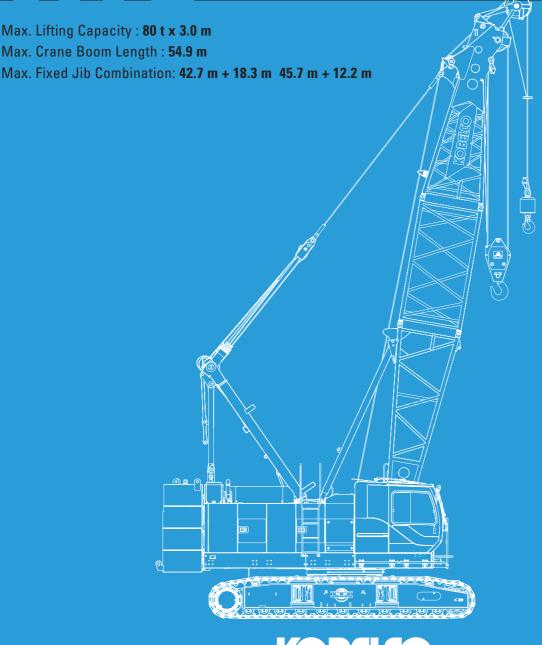


Hydraulic Crawler Crane

GUE

800G

Model: CKE800G



KOBELCO



CKE800G CONTENTS

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



SPECIFICATIONS



Power Plant

Model: HINO J08E-UV

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

turbo-charger, intercooler

Complies with NRMM (Europe) Stage IIIB and US EPA Interim

Tier 4

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



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 a hydraulic variable plunger motors, driven through planetary reducers.

Negative Brake: A spring-set, hydraulically released multiple-

disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional)

Drum Lock: External ratchet for locking drum

Drums:

Front Drums:

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 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



3





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

Main Specifications (Model: CKE800G)

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: 75.1 ton

Ground pressure: 84.7 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, 45.7 m + 12.2 m	

Crane Boom Max. Lifting Capacity 80 t x 3.0 m Max. Length 54.9 m Fixed Jib 7.0 t x 20.0 m Max. Lifting Capacity 42.7 m + 18.3, 45.7 m +12.2 m Max. Combination 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} 1.7/1.1 km/h Travel Speed **Power Plant** HINO J08E-UV Model

Hydraulic System			
Main Pums 3 variable displacement			
Max. Pressure	31.9 Mpa {325 kg/cm²}		
Hydraulic Tank Capacity	440 liters		
Self-Removal Device			
	Counterweight/self-removal device		
Weight			
Operating Weight	75.1 t *1		
Ground Pressure	84.7 kPa		
Counterweight	27,200 kg		
Transport Weight	39,850 kg *2		

Units are SI units. { } indicates conventional units.

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

Engine Output

Fuel Tank

213 kW/2100 min⁻¹ 400 liters

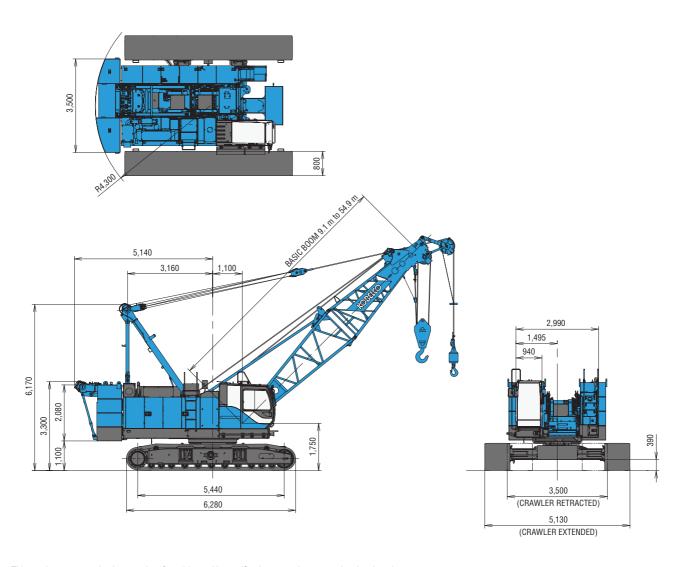
^{*1} Including upper and lower machine, 27.2 ton counterweight, 6.5 ton carbody weight, basic boom, hook, and other accessories.

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



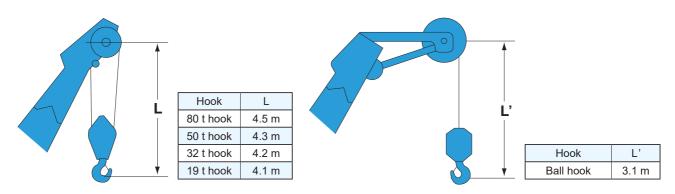
GENERAL DIMENSIONS

(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

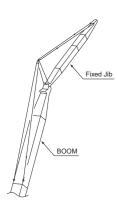
0.0	200111 7111 0111 9011101110
Boom length m (ft)	Boom arrangement
9.1 (30)	* ◆
12.2 (40)	※ <10 □
15.2 (50)	< <u>120</u> ↑> ※ < <u>100</u> ↑>
18.3 (60)	
21.3 (70)	< <u>\$\frac{1}{20}\frac{1}{20}\frac{1}{120}\fr</u>
24.4 (80)	
27.4 (90)	
30.5 (100)	
33.5 (110)	₹\(\begin{array}{c ccccccccccccccccccccccccccccccccccc
36.6 (120)	

Boom length m (ft)	Boom arrangement
39.6 (130)	□
42.7 (140)	□ 20
45.7 (150)	※ <□10 20 30 30 30 50 50 50 50 50 50 50 50 50 50 50 50 50
48.8 (160)	
51.8 (170)	
54.9 (180)	

Symbol	Boom Length	Remarks	
B	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	

mark shows the guy line installing position when the fixed jib is used.

Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement	
30.5 m ∼ 45.7 m	6.1 (20)	3.0/\3.0	
30.5 III ~ 45.7 III	12.2 (40)	B 20 T	
30.5 m ~ 42.7 m	18.3 (60)	€ 20 20 T	

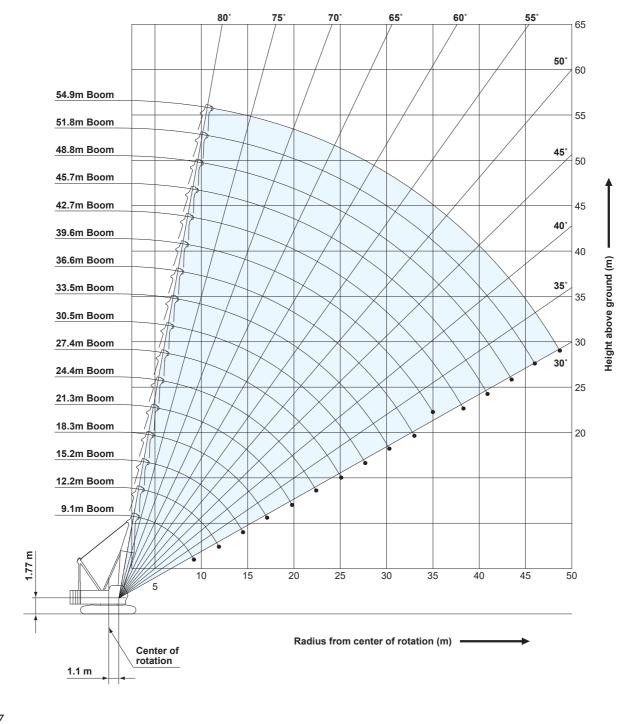
Symbol	Jib Length	Remarks
В	3.0 m	Jib Base
	3.0 m	Jib Top
20	6.1 m	Insert Jib

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



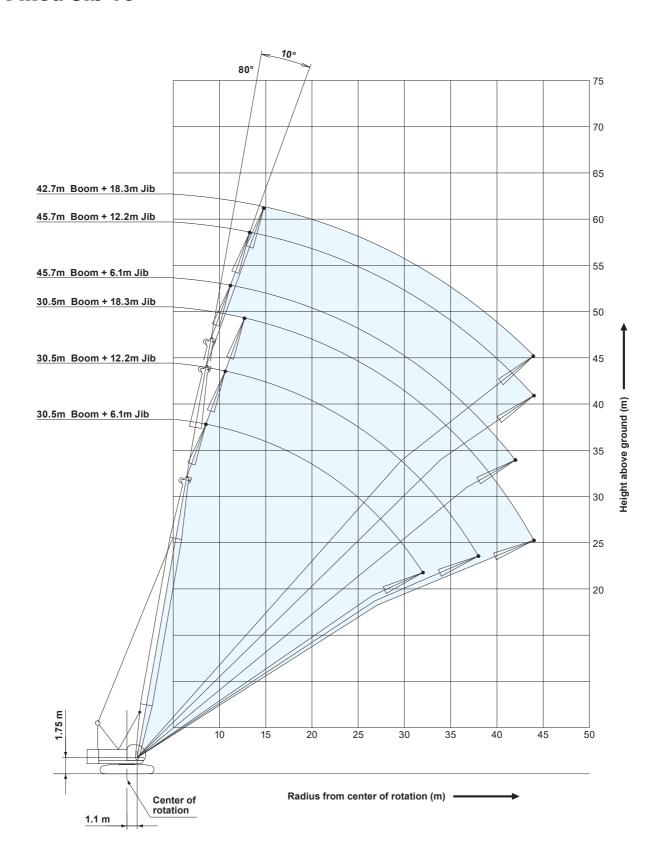
WORKING RANGES

Crane Boom





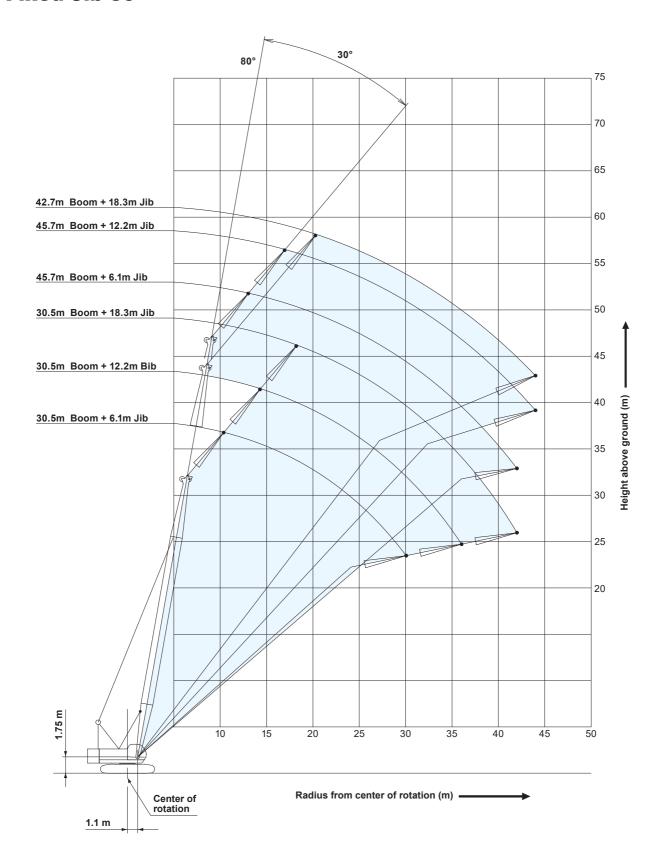
Fixed Jib 10°





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.

- 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.
- •When erecting or lowering the boom length of 54.9 m(180 ft) or over, the blocks for erection must be placed under the front of the crawlers.

(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
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 L	ine 1
Maximum Loads	(kN) 69
Maximum Load:	s (t) 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

27.2 ton counterweight 6.5 ton carbody weight

No.4		No.5
	No.3	
	No.2	
	No.1	

Counterweights
Carbody weights

Assembling the counterweight

(Equipped with self removal device) 26.1 ton counterweight 6.5 ton carbody weight

No.4		No.5
No.2		No.3
	No.1	

Counterweights
Carbody weights

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



LIFTING CAPACITIES

	rar	ne E	300	m L	.ifti	ng	Cap	aci	itie	5					Counterweight: 27.2 t Carbody Weight: 6.5 t Unit: metric ton		
Boom																Unit	Boom
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	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.

Please refer rated chart in operator's cabin.

11

			Jib Lif fset A	_	_	ities				Carbody W	ight: 27.2 t eight: 6.5 t	
Во	om length (m)		30.5			33.5			36.6			
J	ib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)	
П	9.0	7.0			7.0						9.0	
П	10.0	7.0			7.0			7.0			10.0	
	12.0	7.0	7.0	4.5	7.0	7.0	Ī	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	
اءِا	22.0	6.1	6.4	4.5	6.0	6.2	4.5	5.9	6.2	4.5	22.0 <	
s (m)	24.0	5.4	5.6	4.5	5.2	5.5	4.5	5.1	5.4	4.5	24.0	
radius	26.0	4.7	5.0	4.5	4.6	4.8	4.5	4.5	4.8	4.5	26.0	
lg l	28.0	4.2	4.4	4.5	4.1	4.3	4.4	4.0	4.2	4.3	24.0 Working radius (m) 26.0 30.0 (m)	
Working	30.0	3.8	4.0	4.1	3.6	3.8	3.9	3.5	3.7	3.9	30.0	
\$	32.0	3.4	3.6	3.7	3.2	3.4	3.5	3.1	3.3	3.5	32.0	
	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	om length (m)		39.6			42.7			45.7	Boom length (m)
J	ib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	Jib length (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
П	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
Œ	24.0	5.0	5.3	4.5	4.9	5.2	4.5	4.8	5.1	24.0 ≦
radius	26.0	4.4	4.6	4.5	4.3	4.5	4.5	4.2	4.4	24.0 Sorking 26.0 28.0 as 30.0 lius
	28.0	3.9	4.1	4.2	3.8	4.0	4.1	3.6	3.9	28.0
Working	30.0	3.4	3.6	3.7	3.3	3.5	3.6	3.2	3.4	30.0
N N	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
П	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	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.

Please refer rated chart in operator's cabin.



LIFTING CAPACITIES

			Jib Lif fset A			ties				Counterwe Carbody W Ur		t
Вс	om length (m)		30.5			33.5			36.6		Boom length	(m)
J	ib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (ı	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	11
	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	<
s (n	26.0	4.8	4.9	3.2	4.7	5.0	3.2	4.6	5.0	3.2	26.0	or S
Working radius (m)	28.0	4.3	4.6	3.2	4.2	4.5	3.2	4.1	4.4	3.2	28.0	Working radius (m)
l gr	30.0	3.8	4.1	3.1	3.7	4.0	3.2	3.6	3.9	3.2	30.0	radi
ļ	32.0		3.7	3.0	3.3	3.6	3.0	3.2	3.5	3.1	32.0	su (
Š	34.0		3.3	2.8		3.2	2.9	2.9	3.1	3.0	34.0	3
	36.0		3.0	2.7		2.9	2.8		2.8	2.9	36.0	1
	38.0			2.6		2.6	2.7		2.5	2.7	38.0	1
	40.0			2.5			2.5		2.2	2.5	40.0	1
	42.0			2.4			2.3			2.2	42.0	1
	44.0						2.1			2.0	44.0	1
	Reeves	1	1	1	1	1	1	1	1	1	Reeves	

Вос	om length (m)		39.6			42.7			45.7	Boom length (m)
Ji	b length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	Jib length (m)
П	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
آءِ	24.0	5.2	5.0	3.2	5.1	5.0	3.2	5.0	5.0	24.0
(m)	26.0	4.5	4.9	3.2	4.4	4.8	3.2	4.3	4.7	26.0 ਵ੍ਰੇ
radius	28.0	4.0	4.3	3.2	3.9	4.3	3.2	3.8	4.2	28.0
	30.0	3.5	3.8	3.2	3.4	3.8	3.2	3.3	3.7	30.0 🖺
Working	32.0	3.1	3.4	3.2	3.0	3.3	3.2	2.9	3.2	24.0 working radius (1) 26.0 30.0 32.0 (1)
	34.0	2.7	3.0	3.1	2.6	3.0	3.2	2.4	2.9	34.0
	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.

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 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.

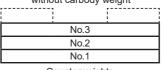
<Reference Information>

Main hoist loads

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

Assembling the counterweight

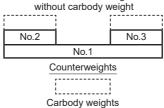
22.8 ton counterweight without carbody weight



Carbody weights

Assembling the counterweight

(Equipped with self removal device) 17.7 ton counterweight



•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.



LIFTING CAPACITIES

		ell Rat Soom C				Counterweight: 22.8 t Without Carbody Weight Crawler Fully Extended Unit: metric ton
Boom length Load (m) radius (m)	9.1	12.2	15.2	18.3	21.3	Boom length (m) Load (m) radius (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	Reeves

Note:

Please refer rated chart in operator's cabin.



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

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

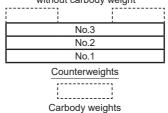
	Weight of hook block										
Hook Block	Hook Block 80 t 50 t 32 t 19 t 7.0 t Ball Hook										
Weight (t)	0.8	0.7	0.5	0.4	0.16						

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

<Reference Information>

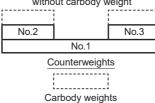
Assembling the counterweight

22.8 ton counterweight without carbody weight



Assembling the counterweight

(Equipped with self removal device) 17.7 ton counterweight without carbody weight



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



LIFTING CAPACITIES

		ed W Boon	_		_					Witho	unterweig out Carbod vler Fully I Unit:	ly Weight
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.

Please refer rated chart in operator's cabin.





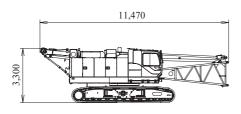
TRANSPORTATION PLAN

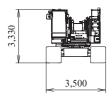
Name	Dimension		Weight (kg)
Base Machine • Boom base • Gantry • Crawler • Wire rope (Front / boom hoist)	11,470	3,500	39,850
Base Machine Gantry Crawler Wire rope (Front / rear / boom hoist)	8,210	3,500	37,880
Base Machine • Boom base • Gantry • Wire rope (Front / rear / boom hoist) • Without crawler	11,470 00,600 00,000 00	2,990	25,490
Base Machine Gantry Wire rope (Front / rear / boom hoist) Without crawler	7,700	2,990	23,520
Crawler	6,280	1,040	7,180

PARTS AND ATTACHMENTS

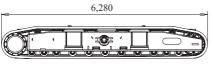
Base Machine

Boom base, Gantry, Crawler, Wire rope (Front/boom hoist) Weight: 39,850 kg Width: 3,500 mm





Crawler Weight: 7,180 kg



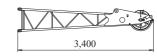


Backstop Weight: 245 kg



Jib Tip Weight: 145 kg





Jib Base

Weight: 125 kg





6.1 m

Jib Insert

Weight: 140 kg





Jib Strut

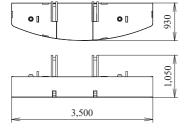
Weight: 190 kg



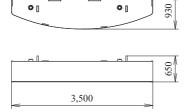


Counterweight No.1

Weight: 8,530 kg

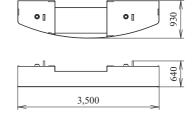


Counterweight No.2 Weight: 7,860 kg

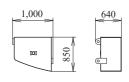


Counterweight No.3

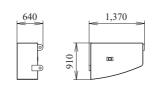
Weight: 6,410 kg



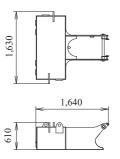
Counterweight No.4 (L) Weight: 1,660 kg



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



Carbody Weight Weight: 3,270 kg / 1 piece

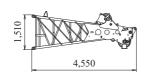






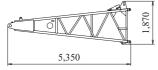
Boom Tip Weight: 1,110 kg





Boom Base

Weight: 1,130 kg





3.0 m **Boom Insert**

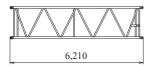
Weight: 311 kg





6.1 m **Boom Insert**

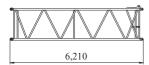
Weight: 522 kg





6.1 m Boom Insert With Lug

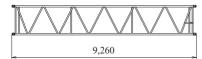
Weight: 545 kg





9.1 m

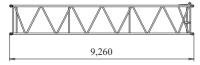
Boom Insert Weight: 742 kg





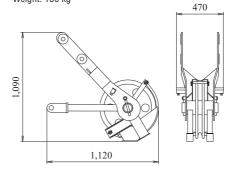
Boom Insert With Lug

Weight: 765 kg

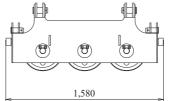


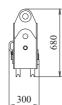


Auxiliary Sheave Weight: 150 kg



Upper Spreader Weight: 280 kg





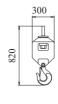
Lower Spreader Weight: 215 kg





Ball Hook

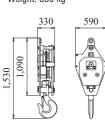
Weight: 160 kg



19 t Hook Weight: 400 kg

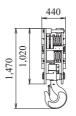
390 590 19t 0 940

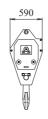




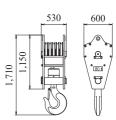
50 t Hook

Weight: 650 kg





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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