Hydraulic Crawler Crane

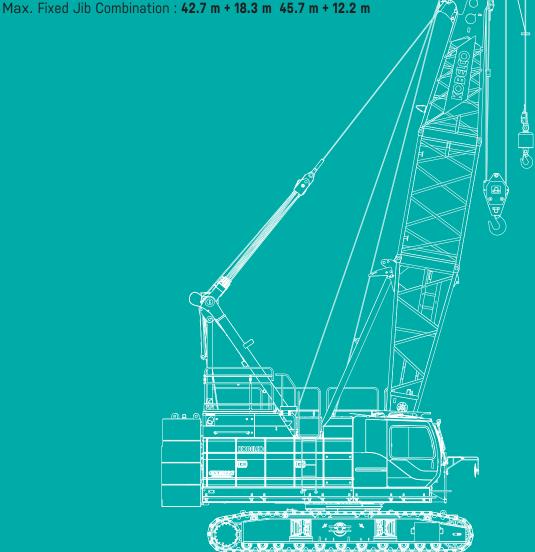




Model: CKE800G-2

800G

Max. Lifting Capacity: 80 t x 3.0 m Max. Crane Boom Length: 54.9 m







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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 L

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 L AdBlue® tank capacity: 60 L



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

Oil Quantity (at the reference level): 375 L



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.

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

Drum Lock: External ratchet for locking drum

Drum: Single drum, grooved for 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

335 m 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.

Counterweight: 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.

Carbody weight: 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 (Min. combination)	Max. Length (Max. combination)
Crane Boom	9.1 m	54.9 m
Fixed Jib	30.5 m + 6.1 m	42.7 m + 18.3 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 L				
AdBlue® Tank	60 L				

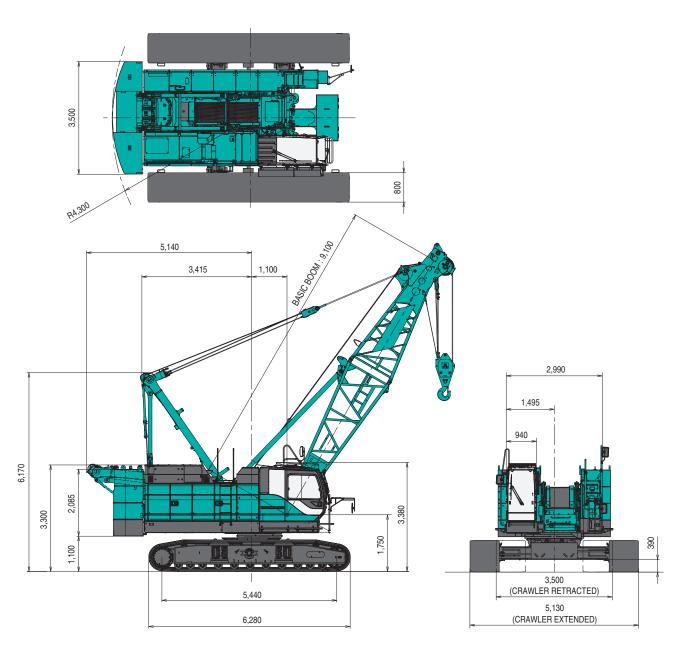
Hydraulic System				
Main Pumps	3 variable displacement			
Max. Pressure	31.9 MPa {325 kg/cm²}			
Oil Quantity (at the reference level)	375 L			
Self-Removal Device				
	Counterweight/self-removal device(Option)			
Weight				
Operating Weight	75.7 t *1			
Ground Pressure	84.8 kPa			
Counterweight	27,180 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. \\

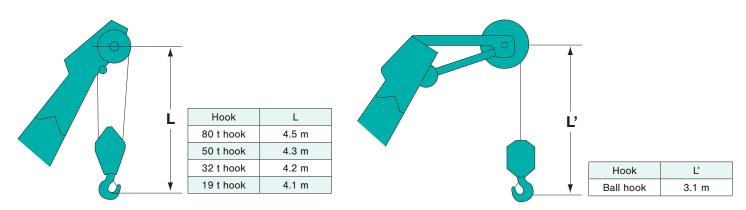
- *1 Including upper and lower machine, 27.2 ton counterweight, 6.5 ton carbody weight, basic boom, hook, and other accessories.
- *2 Base machine with boom base, gantry, crawlers, and wire ropes (front/rear/boom hoist)

(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

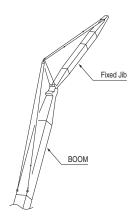
Boom length m (ft)	Boom arrangement
9.1 (30)	* ◆
12.2 (40)	* <10>
15.2 (50)	< <u>120</u> ► ※ < <u>1000</u> ►
18.3 (60)	
21.3 (70)	
24.4 (80)	
27.4 (90)	★ < 10 20 30 10
30.5 (100)	
33.5 (110)	₹ 20 30 50 50 50 € 10 10 30 30 50 € 30 € 30 € 30 € 30 € 30 € 30
36.6 (120)	

Boom length m (ft)	Boom arrangement
39.6 (130)	
42.7 (140)	
45.7 (150)	
48.8 (160)	< <u>20 20 30 30 30 30 50</u>
51.8 (170)	
54.9 (180)	

Symbol	Boom Length	Remarks
$\triangleleft \mathbb{B}$	5.2 m	Boom Base
\triangleright	3.9 m	Boom Tip
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

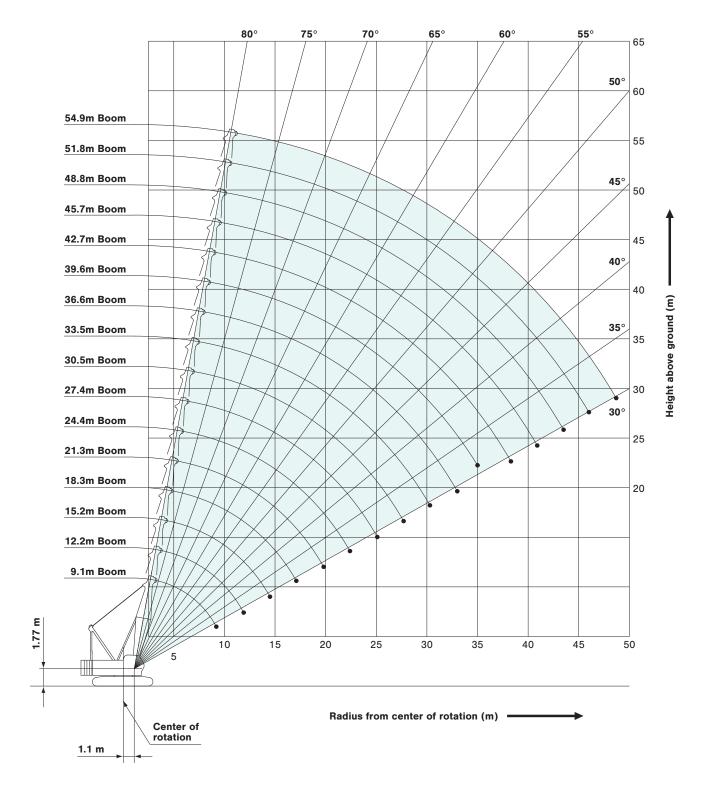


Crane boom length	Jib length m (ft)	Jib arrangement
30.5 m to 45.7 m	6.1 (20)	3.0 \ \3.0
30.5 111 to 45.7 111	12.2 (40)	B 20 T
30.5 m to 42.7 m	18.3 (60)	B 20 20 T

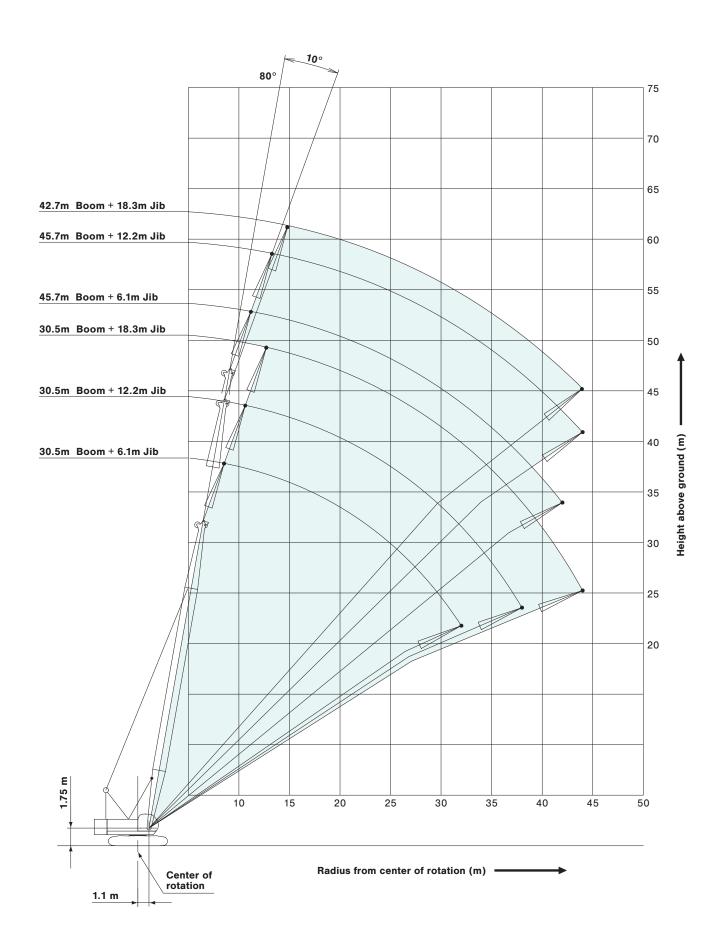
Symbol	Jib Length	Remarks
В	3.0 m	Jib Base
	3.0 m	Jib Tip
20	6.1 m	Insert Jib

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

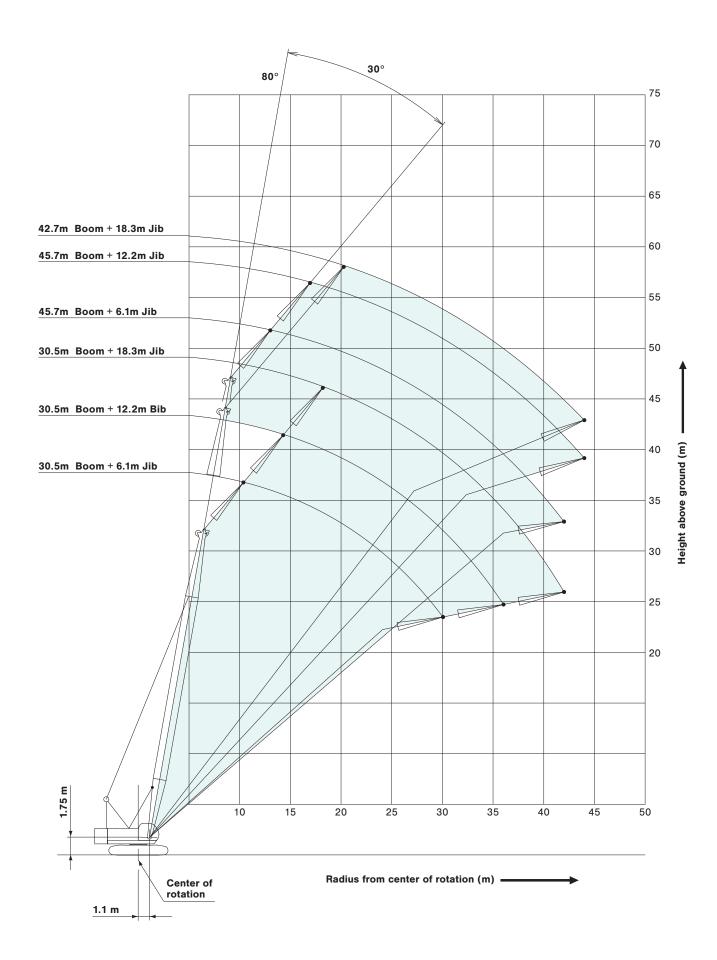
Crane Boom



Fixed Jib 10°



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.

(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 iib 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 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 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 counterweight6.5 ton carbody weight

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

Counterweights

Carbody weights

Assembling the counterweight (Optional type)

(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 (standard or optional).

LIFTING CAPACITIES

										Counterweight: 27.2 t Carbody Weight: 6.5 t							
																Unit:	metric ton
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.

(NOT	
A	

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

Counterweight: 27.2 t Carbody Weight: 6.5 t

		(OID (JIISEL	Allgie	5.10	•				ι	Init: metric to	n
Во	oom length (m)		30.5			33.5			36.6		Boom length (r	n)
J	lib 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	
Ξ	22.0	6.1	6.4	4.5	6.0	6.2	4.5	5.9	6.2	4.5	22.0	٧
	24.0	5.4	5.6	4.5	5.2	5.5	4.5	5.1	5.4	4.5	24.0	Working radius
radius	26.0	4.7	5.0	4.5	4.6	4.8	4.5	4.5	4.8	4.5	26.0	ıβι
	28.0	4.2	4.4	4.5	4.1	4.3	4.4	4.0	4.2	4.3	28.0	adi
Working	30.0	3.8	4.0	4.1	3.6	3.8	3.9	3.5	3.7	3.9	30.0	s
%	32.0	3.4	3.6	3.7	3.2	3.4	3.5	3.1	3.3	3.5	32.0	$\widehat{\Xi}$
	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	
1	D	4	4	4	4	4	4	4	4	4	D	

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	Τ
	12.0	7.0			7.0			7.0		12.0	7
	14.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	14.0	1
	16.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	16.0	1
	18.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	18.0	1
	20.0	6.6	6.7	4.5	6.6	6.7	4.5	6.5	6.6	20.0	1
_	22.0	5.8	6.0	4.5	5.7	6.0	4.5	5.6	5.8	22.0	Ϊ.
(E)	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	26.0	
	28.0	3.9	4.1	4.2	3.8	4.0	4.1	3.6	3.9	28.0) radius
Working	30.0	3.4	3.6	3.7	3.3	3.5	3.6	3.2	3.4	30.0	
/or	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	15
	36.0	2.3	2.5	2.7	2.2	2.4	2.6	2.0	2.2	36.0	1
	38.0	2.0	2.2	2.4	1.8	2.1	2.2	1.6	1.9	38.0	1
	40.0	1.7	1.9	2.1	1.6	1.8	2.0	1.4	1.6	40.0	1
	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	1
	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.

LIFTING CAPACITIES

			l Jib L Offset	_	_	cities °)				Carbody	veight: 27.2 t Weight: 6.5 t Unit: metric ton	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)	
	12.0	7.0	1		7.0	Ì		7.0			12.0	T
	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	
Œ	24.0	5.5	5.0	3.2	5.4	5.0	3.2	5.3	5.0	3.2	24.0	§
sn (26.0	4.8	4.9	3.2	4.7	5.0	3.2	4.6	5.0	3.2	26.0	2.
radius	28.0	4.3	4.6	3.2	4.2	4.5	3.2	4.1	4.4	3.2	28.0	1
	30.0	3.8	4.1	3.1	3.7	4.0	3.2	3.6	3.9	3.2	24.0 26.0 28.0 30.0	<u>ה</u>
Working	32.0		3.7	3.0	3.3	3.6	3.0	3.2	3.5	3.1		
8	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	
	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	

Вс	oom length (m)		39.6			42.7			45.7	Boom length	(m)
	lib 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	1
	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	1
	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	7
Ξ	24.0	5.2	5.0	3.2	5.1	5.0	3.2	5.0	5.0	24.0	×
	26.0	4.5	4.9	3.2	4.4	4.8	3.2	4.3	4.7	26.0	Ĭ.
radius	28.0	4.0	4.3	3.2	3.9	4.3	3.2	3.8	4.2	28.0	- Bu
	30.0	3.5	3.8	3.2	3.4	3.8	3.2	3.3	3.7	30.0	Working radius
Working	32.0	3.1	3.4	3.2	3.0	3.3	3.2	2.9	3.2	32.0	S
%	34.0	2.7	3.0	3.1	2.6	3.0	3.2	2.4	2.9	34.0	E
	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	1
	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	1
	44.0		1.5	1.8		1.4	1.7		1.3	44.0	1
	Reeves	1	1	1	1	1	1	1	1	Reeves	٦

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.

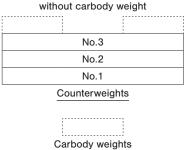
<Reference Information>

Main hoist loads

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

Assembling the counterweight (Standard type)

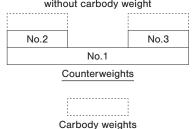
22.8 ton counterweight



Assembling the counterweight (Optional type)

(Equipped with self removal device)

17.7 ton counterweight without carbody weight



 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

		shell R	Counterweight: 22.8 t Without Carbody Weight Crawler Fully Extended				
	Crane	Boom	n Capa	cities			nit: metric ton
Boom length Load (m) radius (m)	0.1	12.2	15.2	18.3	21.3		Boom length (m) Load 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:

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 of the 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

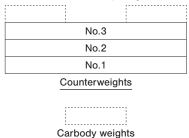
Weight of hook block						
Hook Block	80 t	50 t	32 t	19 t	7.0 t Ball Hook	
Weight (t)	0.8	0.7	0.5	0.4	0.16	

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

<Reference Information>

Assembling the counterweight (Standard type)

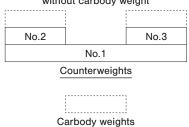
22.8 ton counterweight without carbody weight



Assembling the counterweight (Optional type)

(Equipped with self removal device)

17.7 ton counterweight without carbody weight



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

LIFTING CAPACITIES

Reduced Weights Rating Charts Counterweight: 22.8 t **Without Carbody Weight Crawler Fully Extended Crane Boom Lifting Capacities** Unit: metric ton 9.1 12.2 15.2 21.3 24.4 27.4 30.5 36.6 39.6 Load radius (m) 3.0m/73.8 3.0 3.0 3.5 68.7 3.6m/66.9 3.5 4.0 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 5.7m/33.4 39.2 5.5 39.1 39.0 39.0 37.2 5.5 34.1 32.2 6.3m/29.2 6.8m/25.7 6.0 34.0 33.9 33.9 33.7 6.0 27.0 7.3m/22.7 7.9m/20.3 7.0 26.9 26.8 26.8 26.7 26.6 26.0 24.9 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 11.9m/12.9 12.6 12.5 12.4 12.3 12.2 12.2 12.0 12.0 12.0 12.0 12.7 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 5.3 5.1 4.9 4.8 22.0 22.4m/5.3 24.0 4.6 4.5 4.4 4.3 4.2 24.0 26.0 3.9 3.8 25.1m/4.3 4.0 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 30.3m/3.0 32.0 2.6 2.4 32.0 34.0 2.1 34.0 33.0m/2.3 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)	42.7	45.7	48.8	51.8				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



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.

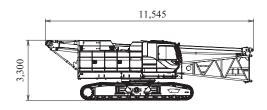
TRANSPORTATION PLAN

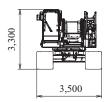
Name	Dimension		Weight (kg)
Base Machine • Boom base • Gantry • Crawler • Wire rope (Front / rear / boom hoist)	11,545	3,500	39,780
Base Machine • Gantry • Crawler • Wire rope (Front / rear / boom hoist)	8,210	3,500	37,800
Base Machine Boom base Gantry Wire rope (Front / rear / boom hoist) Without crawler	11,545	2,990	25,500
Base Machine • Gantry • Wire rope (Front / rear / boom hoist) • Without crawler	7,700	2,990	23,520
Crawler	6,280	1,020	7,175

PARTS AND ATTACHMENTS

Base Machine

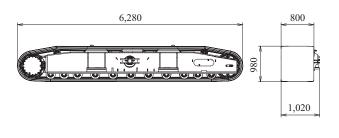
Boom base, Gantry, Crawler, Wire rope (Front/rear/boom hoist) Weight: 39,780 kg Width: 3,500 mm





Crawler

Weight: 7,175 kg



Backstop

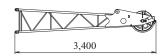
Weight: 245 kg



Jib Tip

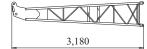
Weight: 145 kg





Jib Base

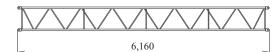
Weight: 125 kg





6.1 m

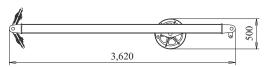
Jib Insert Weight: 140 kg





Jib Strut

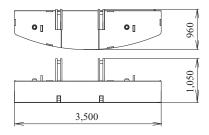
Weight: 190 kg





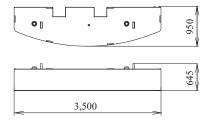
Counterweight No.1

Weight: 8,520 kg



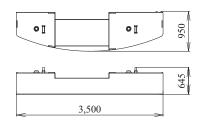
Counterweight No.2

Weight: 7,850 kg



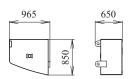
Counterweight No.3

Weight: 6,410 kg



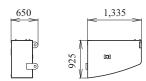
Counterweight No.4 (L)

Weight: 1,660 kg



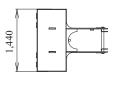
Counterweight No.4 (R)

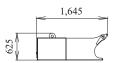
Weight: 2,740 kg



Carbody Weight

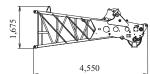
Weight: 3,250 kg / 1 piece









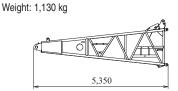


1,615

1,490

1,900

Boom Base

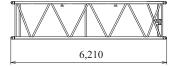


3.0 m **Boom Insert** Weight: 310 kg





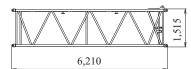
6.1 m **Boom Insert** Weight: 525 kg





6.1 m Boom Insert With Lug

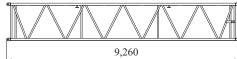
Weight: 550 kg





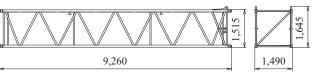
9.1 m **Boom Insert**

Weight: 745 kg



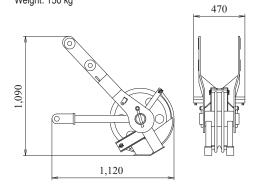


9.1 m Boom Insert With Lug Weight: 770 kg

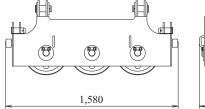


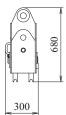
Auxiliary Sheave

Weight: 150 kg



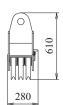
Upper Spreader Weight: 280 kg





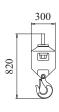
Lower Spreader Weight: 215 kg





Ball Hook

Weight: 160 kg

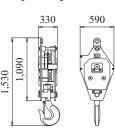


19 t Hook Weight: 400 kg

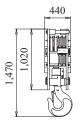
390

590 **⊘** <u>o</u> •

32 t Hook Weight: 500 kg



50 t Hook Weight: 650 kg

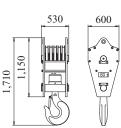




940

1,270

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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KOBELCO CONSTRUCTION MACHINERY CO., LTD. Inquiries To:

5-15, Kitashinagawa 5-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN Tel: +81-3-5789-2121 Fax: +81-3-5789-3372

URL: https://www.kobelcocm-global.com