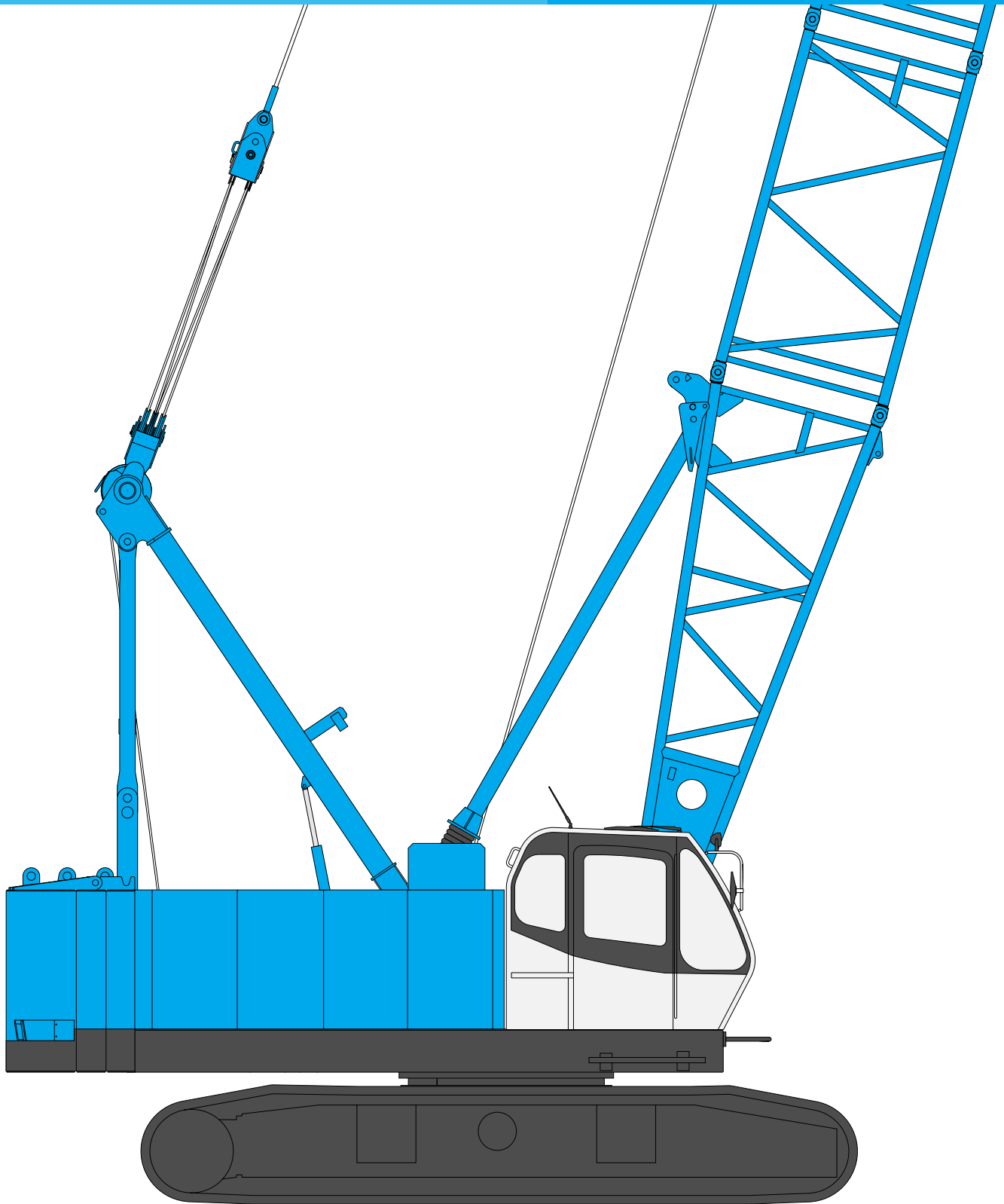


**KOBELCO**

HYDRAULIC CRAWLER CRANE

***CKE800***

Model: CKE800-1F

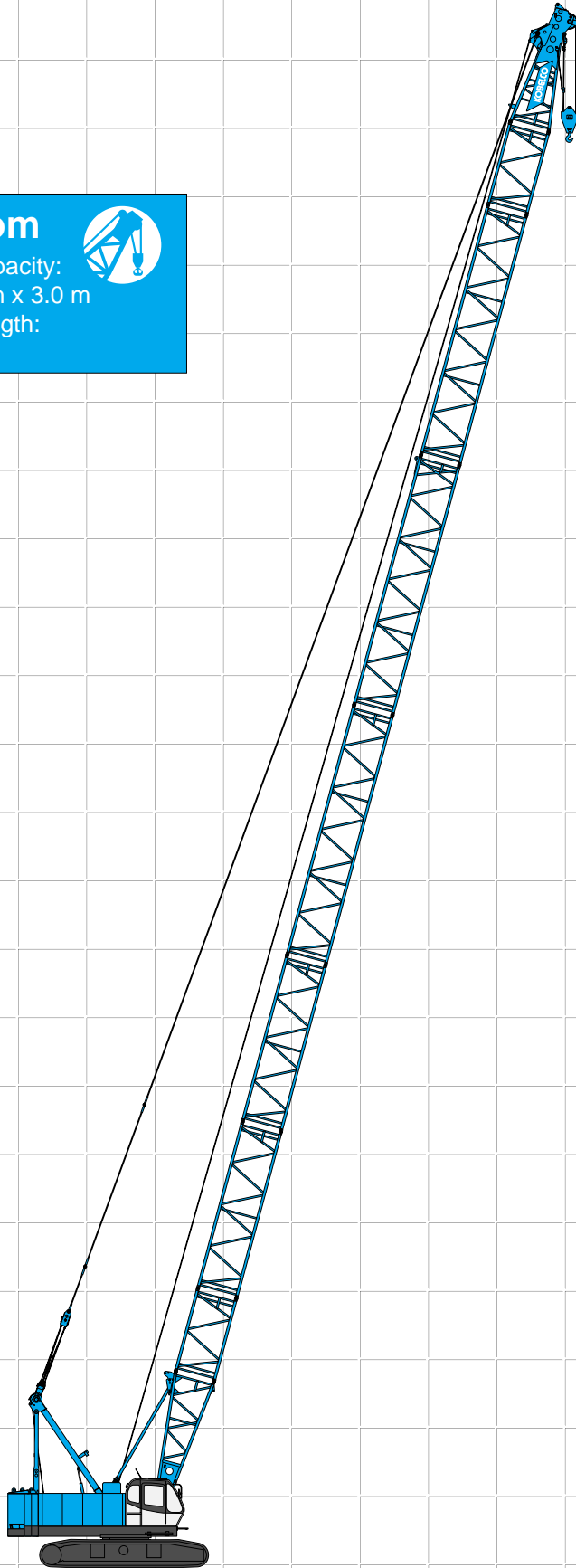


**Max. Lifting Capacity: 80 t x 3.0 m**  
**Max. Crane Boom Length: 54.9 m**  
**Max. Fixed Jib Combination: 42.7 + 18.3 m**  
**45.7 + 12.2 m**

# CONFIGURATION

## Crane Boom

Max. Lifting Capacity:  
80 metric ton x 3.0 m  
Max. Boom Length:  
54.9 m



## Fixed Jib

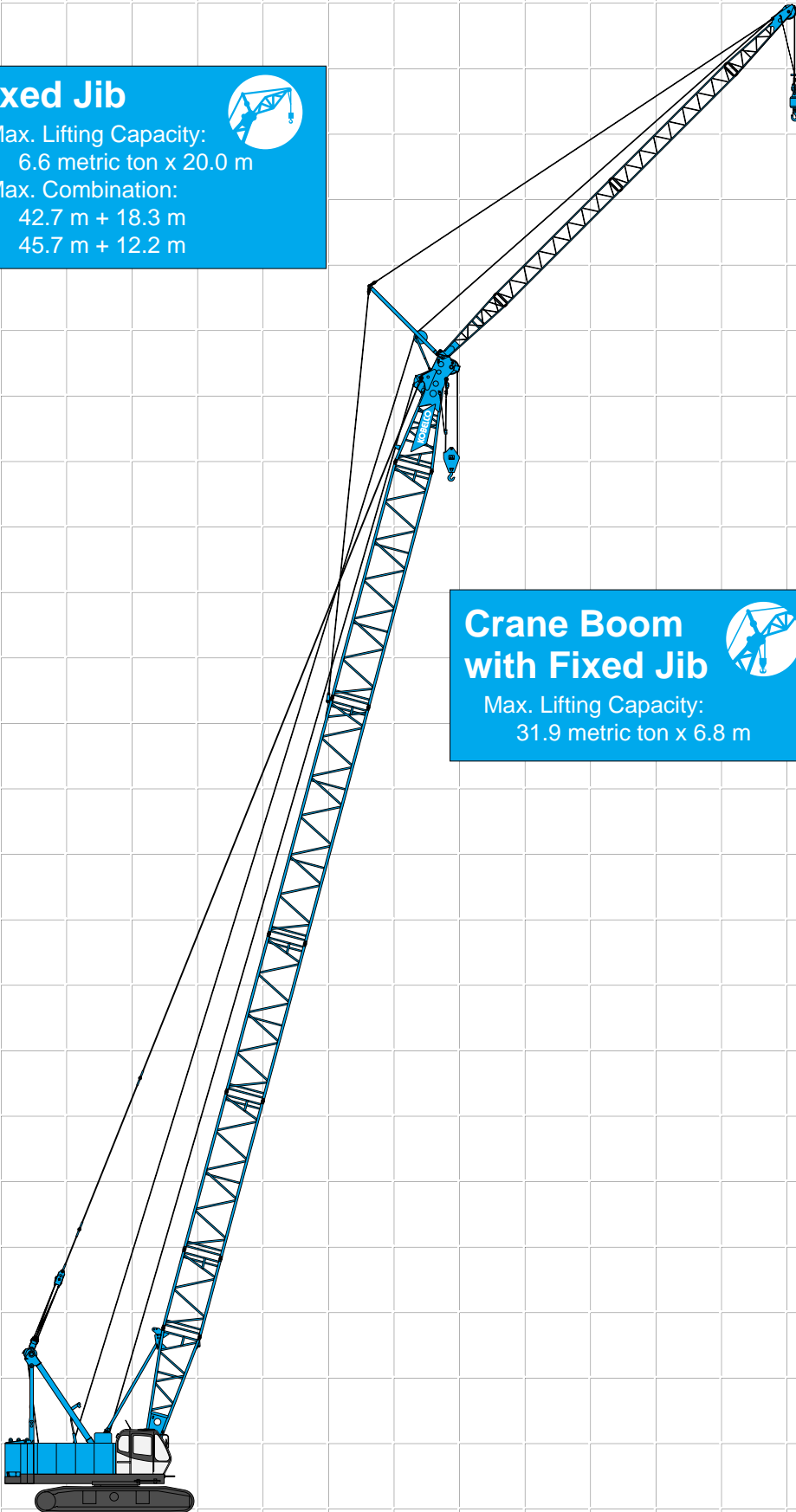


Max. Lifting Capacity:  
6.6 metric ton x 20.0 m  
Max. Combination:  
42.7 m + 18.3 m  
45.7 m + 12.2 m

## Crane Boom with Fixed Jib



Max. Lifting Capacity:  
31.9 metric ton x 6.8 m



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# SPECIFICATIONS



## Power Plant

**Model:** Hino diesel engine J08E-TM  
**Type:** Water-cooled, direct fuel injection, with turbocharger  
Complies with NRMM (Europe) Stage IIIA and US EPA TierIII.  
**Displacement:** 7.684 liters  
**Rated Power:** 159 kW at 2,000 min<sup>-1</sup> {rpm} (ISO)  
**Max. torque:** 797 N·m/1,600 min<sup>-1</sup>  
**Cooling system:** Liquid, recirculating bypass  
**Starter:** 24 V/5.0 kW  
**Radiator:** Corrugated type core, thermostatically controlled  
**Air cleaner:** Dry type with replaceable paper element  
**Throttle:** Electric throttle control, twist grip type  
**Fuel filter:** Replacement paper element  
**Batteries:** Two 12V, 150 Ah/20 HR capacity batteries, series connected.  
**Fuel tank capacity:** 400 liters



## Hydraulic System

Three variable displacement piston pumps are driven by heavy-duty pump drive. Two of variable displacement pumps are used in the main hook hoist circuit, boom hoist circuit, auxiliary hook hoist circuit, third hoist circuit and each propel circuit. The other is used in the swing circuit.

**Control:** Full-flow hydraulic control system for infinitely variable pressure to front and rear drums, boom hoist brakes and clutches. 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 paper element

**Electrical system:** All wiring corded for easy servicing, individual fused branch circuits.

### Max. relief valve pressure:

**Load hoist, boom hoist and propel system:**

31.9 MPa {325 kgf/cm<sup>2</sup>}

**Swing system:** 27.5 MPa {280 kgf/cm<sup>2</sup>}

**Control system:** 7.0 MPa {71 kgf/cm<sup>2</sup>}

**Reservoir 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 16 mm dia. wire rope.

**Line speed:** Single line on first drum layer

**Hoisting/Lowering:** 70 to 2 m/min

### Diameter of wire ropes

**Boom guy line:** 30 mm

**Boom hoist reeving:** 12 parts of 16 mm dia. high strength wire rope

**Boom backstops:** Required for all boom lengths



## Load Hoist 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 item.)

**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.

Note: Rope lengths listed above denote drum capacity and may differ from actual rope lengths supplied when machinery is shipped.

**Line speed:** Single line on the first drum layer

**Hoisting/Lowering:** 120 to 3 m/min

**Line Pull (Single-line):**

**Rated line pull:** 78.5 kN {8.0 tf}



## 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, two position lock for transportation

**Swing speed:** 4.0 min<sup>-1</sup> {rpm}



## Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level. Complies with EC Directive 2000/14/EC.

**Counterweight:** 25.7 ton



## Cab & Control

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

### Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray

### Controls:

Boom hoist pedal, and four adjustable levers for front drum, rear drum, boom drum and swing controls.



## Lower Structure

Steel-welded carbody with axles. Crawler 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.

**Carbody weight:** 6.7 t

**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.

**Shoes (flat):** 63 shoes, 800 mm wide each crawler

**Max. travel speed:** 1.9/1.2 km/h

**Max. gradeability:** 40%



## Weight

Including upper and lower machine, 25.7 ton counterweight, 6.7 ton carbodyweight, basic boom (or basic jib), hook, and other accessories.

Specification	Weight	Ground pressure
<b>Crane boom</b>	Approx. 73.8 ton,	88.0 kPa {0.9 kgf/cm <sup>2</sup> }
<b>Fixed Jib</b>	Approx. 76.1 ton,	91.0 kPa {0.93 kgf/cm <sup>2</sup> }



## Attachment

### Boom and Jib:

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

### Boom 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: CKE800-1F)

Crane Boom	
Max. Lifting Capacity	80 t/3.0 m
Max. Length	54.9 m
Fixed Jib	
Max. Lifting Capacity	6.6 t/20.0m
Max. Combination	42.7 m + 18.3 m, 45.7 m + 12.2 m
Main & Aux. Winch	
Max. Line Speed	120 m/min (1st layer)
Rated Line Pull	78 kN {8.0 tf}
Wire Rope	22 mm
Wire Rope Length	270 m (Main) 130 m (Aux.)
Brake Type	Spring set hydraulically released (Negative)
Free-Fall Brake Type	Wet-type multiple disc brake (Optional)
Working Speed	
Swing Speed	4.0 min <sup>-1</sup> {rpm}
Travel Speed	1.9/1.2 km/h
Power Plant	
Model	Hino J08E-TM
Engine Output	159 kW/2,000 min <sup>-1</sup> {rpm}
Fuel Tank Capacity	400 liters

Hydraulic System	
Main Pumps	3 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm <sup>2</sup> }
Hydraulic Tank Capacity	440 liters
Self-Erection Device	
Standard counterweight removal	
Weight	
Operating Weight*	Approx. 73.8 t
Ground Pressure*	88 kPa {0.9 kgf/cm <sup>2</sup> }
Counterweight	25.7 t (Upper), 6.7t (Lower)
Transport Weight**	Approx. 41.2 t

Units are SI units. { } indicates conventional units.

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

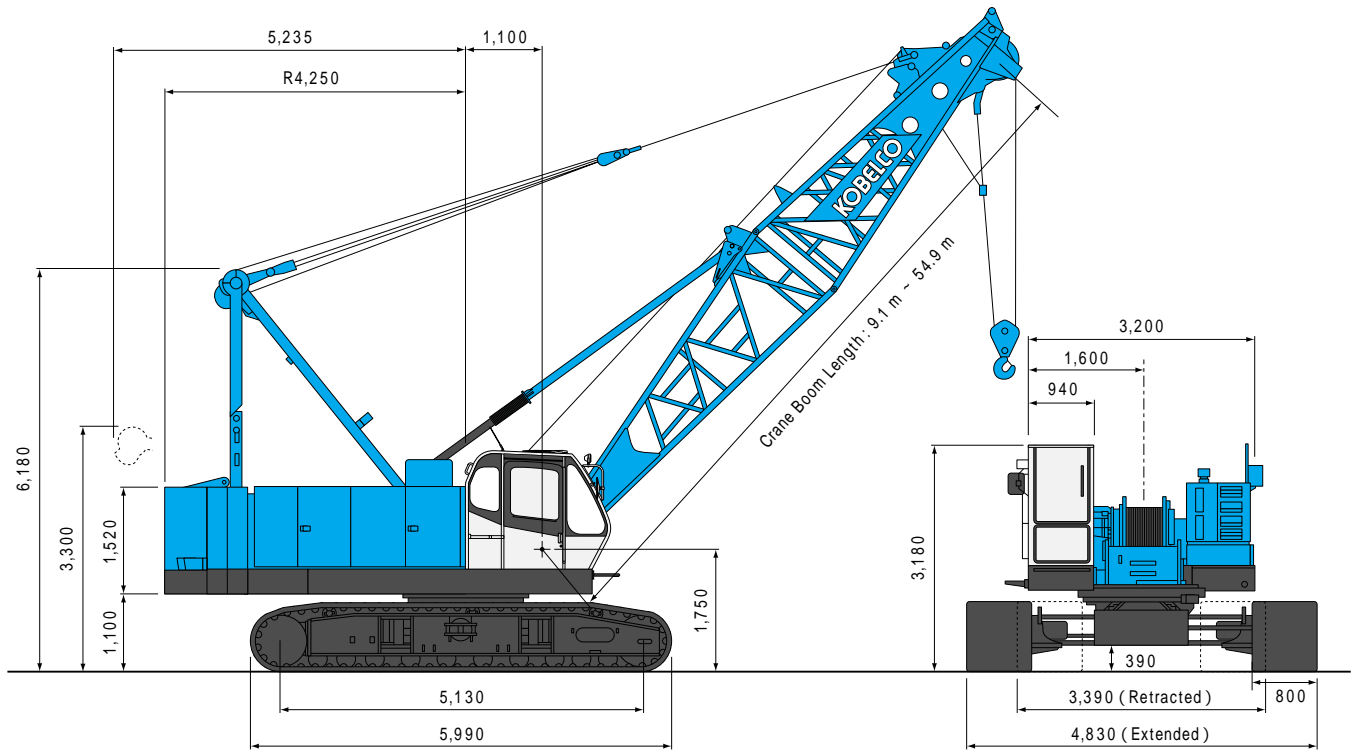
\* Including upper and lower machine, 25.7 ton counterweight, 6.7t carbody weight, basic boom, hook, and other accessories.

\*\* Base machine with gantry, boom base, crawlers, wire ropes for main and aux. winches, lower spreader and upper spreader. (Refer to P14)

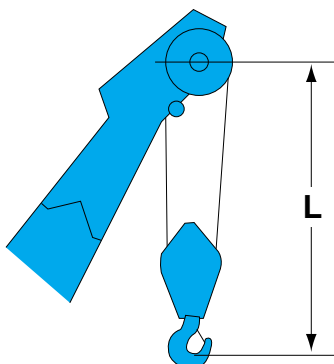
# GENERAL DIMENSIONS

## Crane Boom

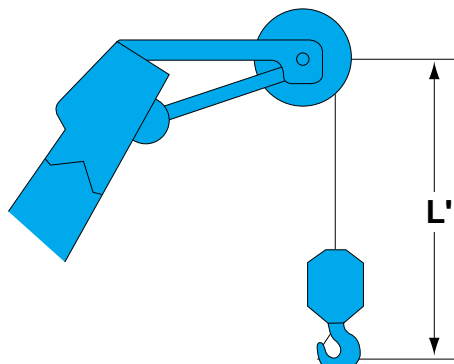
(Unit: mm)



## Limit of Hook Lifting



Hook	L
80 t hook	4.5 m
55 t hook	4.3 m
32 t hook	4.2 m
19 t hook	4.1 m



Hook	L'
6.6 t ball hook	3.1 m

# BOOM AND JIB ARRANGEMENTS

## Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
9.1 (30)	
12.2 (40)	
15.2 (50)	
18.3 (60)	
21.3 (70)	
24.4 (80)	
27.4 (90)	
30.5 (100)	
33.5 (110)	

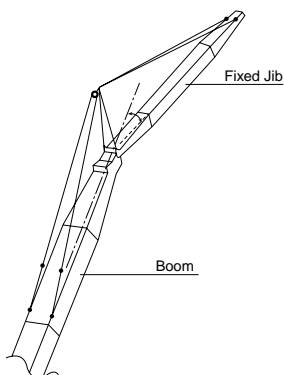
Boom length m (ft)	Boom arrangement
36.6 (120)	
39.6 (130)	
42.7 (140)	
45.7 (150)	
48.8 (160)	
51.8 (170)	
54.9 (180)	

Symbol	Boom Length	Remarks
	5.2 m	Boom Base
	3.9 m	Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	6.1 m	Insert Boom with lug
	9.1 m	Insert Boom
	9.1 m	Insert Boom with lug

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

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

## Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
30.5 m	6.1(20)	
45.7 m	12.2 (40)	
30.5 m } 42.7 m	18.3 (60)	

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



## Hook Blocks

A range of hook blocks can be specified, each with a safety latch.

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)				
			1	2	3	4	5
80-ton	800	5	-	-	-	-	40.0
55-ton	650	4	-	-	24.0	32.0	40.0
32-ton	500	2	-	16.0	24.0	32.0	-
19-ton	400	1	-	16.0	19.0	-	-
6.6-ton ball hook	160	0	6.6	-	-	-	-

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)				
			6	7	8	9	10
80-ton	800	5	48.0	56.0	64.0	72.0	80.0
55-ton	650	4	48.0	55.0	-	-	-
32-ton	500	2	-	-	-	-	-
19-ton	400	1	-	-	-	-	-
6.6-ton ball hook	160	0	-	-	-	-	-

## Symbols for Attachments:



Crane Boom

Auxiliary Sheave  
for Crane Boom

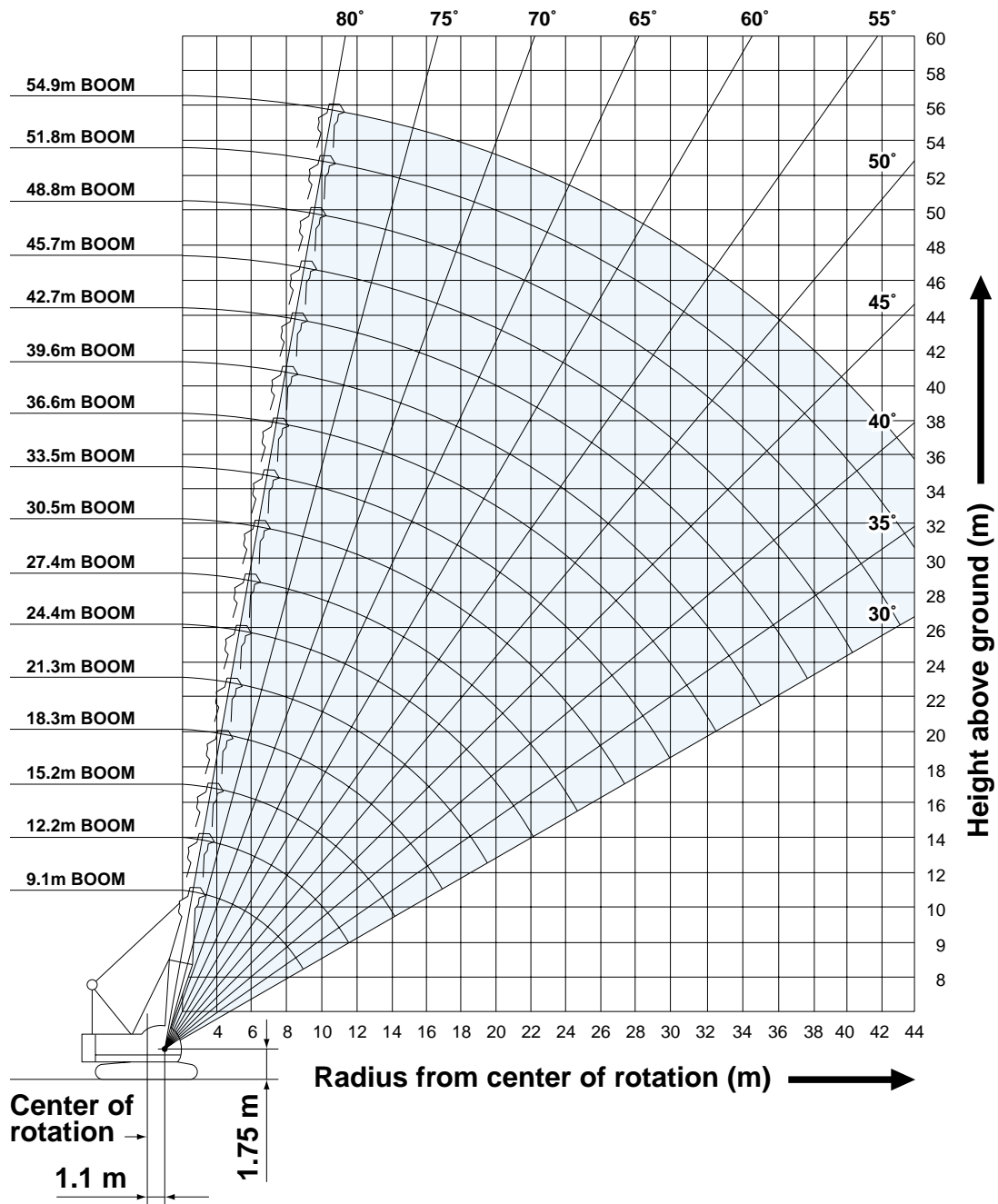
Fixed Jib

Crane Boom  
with Fixed Jib



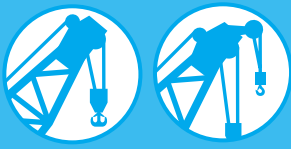
# WORKING RANGES AND LIFTING CAPACITIES

## Crane Boom Working Ranges



### NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block (s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. 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. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 12 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Crawler frames must be fully extended for all crane operations.
13. Ratings shown in   are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Crane boom ratings: Deduct weight of main hook block, slings, and all other load handling accessories from crane boom ratings shown.
16. Auxiliary sheave ratings for crane boom: Deduct weight of ball hook, slings, and all other load handling accessories from auxiliary sheave ratings for crane boom shown.
17. Crane boom lengths for auxiliary sheave mounting are 9.1 m to 51.8 m.



Unit: metric ton

# Crane Boom Lifting Capacity

Counterweight: 25.7 t, Carbody weight: 6.7 t

Working radius (m)	Boom Length (m)																Working 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		
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.  
 Refer to notes P8.

# Auxiliary Sheave Lifting Capacity for Crane Boom (Without Main Hook)

Unit: metric ton

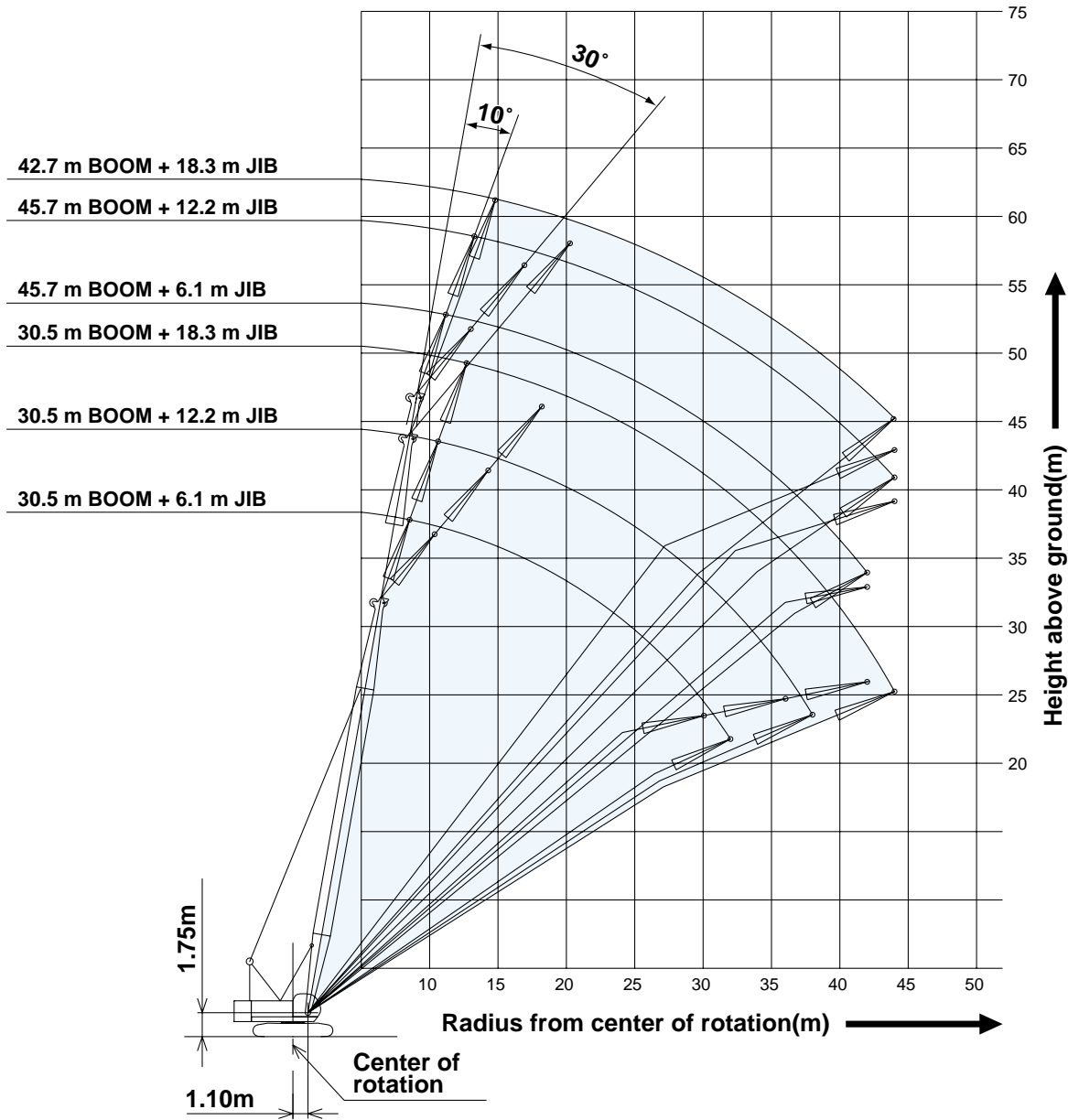
Counterweight: 25.7 t, Carbody weight: 6.7 t

Working radius (m)	Boom Length (m)																Working 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			
5.0	6.6	6.6	6.6	5.5m/6.6														5.0
6.0	6.6	6.6	6.6	6.6	6.6													6.0
7.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6											7.0
8.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6									8.0
9.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6								9.0
10.0	9.2m/6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6						10.0
12.0		11.9m/6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6		12.0
14.0			6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6		14.0
16.0			14.5m/6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6		16.0
18.0				17.1m/6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6		18.0
20.0					19.8m/6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6		20.0
22.0						6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6		22.0
24.0						22.4m/6.6	6.6	6.6	6.6	6.6	6.5	6.3	6.2	6.1	6.0	5.9		24.0
26.0							25.1m/6.5	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.1			26.0
28.0								27.7m/5.4	5.2	5.1	4.9	4.8	4.7	4.6	4.5			28.0
30.0									4.6	4.5	4.4	4.2	4.1	4.0	3.9			30.0
32.0									30.3m/4.6	4.0	3.9	3.7	3.6	3.5	3.4			32.0
34.0										33.0m/3.8	3.5	3.3	3.2	3.1	3.0			34.0
36.0											35.0m/3.2	3.0	2.9	2.7	2.6			36.0
38.0												2.6	2.5	2.4	2.3			38.0
40.0												38.3m/2.6	2.3	2.1	2.0			40.0
42.0													40.9m/2.1	1.8	1.7			42.0
44.0														43.5m/1.7	1.5			44.0
46.0															1.3			46.0
Reeves	1	1	1	1	1	1	1	1	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.  
 Refer to notes P8.

# Fixed Jib Working Ranges

Jib Offset Angle: 10°, 30°



**NOTES:**

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block (s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. 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. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.

8. Boom/ jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 12 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Crawler frames must be fully extended for all crane operations.
13. Ratings shown in   are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Fixed jib ratings: Deduct weight of jib hook block, slings, and all other load handling accessories from fixed jib ratings shown.
16. Crane boom lengths for jib mounting are 30.5 m to 45.7 m.
17. Crane boom ratings with fixed jib: Deduct weight of jib hook block, slings, and all other load handling accessories from crane boom ratings with fixed jib shown.



# Fixed Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

**Jib Offset Angle: 10°**

**Counterweight: 25.7 t, Carbody weight: 6.7 t**

Boom length (m)	30.5			33.5			36.6			39.6			Boom length (m)	
Jib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)	
Working radius (m)	9.0	6.6		6.6						6.6			9.0	
	10.0	6.6		6.6			6.6			6.6			10.0	
	12.0	6.6	6.6	6.6	6.6		6.6	6.6		6.6			12.0	
	14.0	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	14.0
	16.0	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	16.0
	18.0	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	18.0
	20.0	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	6.6	6.6	4.5	20.0
	22.0	6.1	6.4	4.5	6.0	6.2	4.5	5.9	6.2	4.5	5.8	6.0	4.5	22.0
	24.0	5.4	5.6	4.5	5.2	5.5	4.5	5.1	5.4	4.5	5.0	5.3	4.5	24.0
	26.0	4.7	5.0	4.5	4.6	4.8	4.5	4.5	4.8	4.5	4.4	4.6	4.5	26.0
	28.0	4.2	4.4	4.5	4.1	4.3	4.4	4.0	4.2	4.3	3.9	4.1	4.2	28.0
	30.0	3.8	4.0	4.1	3.6	3.8	3.9	3.5	3.7	3.9	3.4	3.6	3.7	30.0
	32.0	3.4	3.6	3.7	3.2	3.4	3.5	3.1	3.3	3.5	3.0	3.2	3.3	32.0
	34.0		3.2	3.3	2.9	3.1	3.2	2.8	3.0	3.1	2.6	2.9	3.0	34.0
	36.0		2.9	3.0	2.6	2.8	2.9	2.5	2.7	2.8	2.3	2.5	2.7	36.0
	38.0		2.6	2.8		2.5	2.6	2.2	2.4	2.5	2.0	2.2	2.4	38.0
	40.0			2.5		2.3	2.4		2.1	2.3	1.7	1.9	2.1	40.0
42.0			2.3		2.0	2.1		1.9	2.0		1.7	1.8	42.0	
44.0			2.1			1.9		1.6	1.8		1.4	1.6	44.0	
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)	42.7			45.7		Boom length (m)
Jib length (m)	6.1	12.2	18.3	6.1	12.2	Jib length (m)
Working radius (m)	12.0	6.6		6.6		12.0
	14.0	6.6	6.6	6.6	6.6	14.0
	16.0	6.6	6.6	6.6	6.6	16.0
	18.0	6.6	6.6	6.6	6.6	18.0
	20.0	6.6	6.6	6.5	6.6	20.0
	22.0	5.7	6.0	5.6	5.8	22.0
	24.0	4.9	5.2	4.8	5.1	24.0
	26.0	4.3	4.5	4.2	4.4	26.0
	28.0	3.8	4.0	3.6	3.9	28.0
	30.0	3.3	3.5	3.2	3.4	30.0
	32.0	2.9	3.1	2.7	3.0	32.0
	34.0	2.5	2.8	2.3	2.6	34.0
	36.0	2.2	2.4	2.0	2.2	36.0
	38.0	1.8	2.1	1.6	1.9	38.0
	40.0	1.6	1.8	1.4	1.6	40.0
42.0	1.3	1.6	1.1	1.4	42.0	
44.0	1.1	1.3		1.1	44.0	
Reeves	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.  
 Refer to notes P10.

Unit: metric ton

## Jib Offset Angle: 30°

Counterweight: 25.7 t, Carbody weight: 6.7 t

Boom length (m)	30.5			33.5			36.6			39.6			Boom length (m)	
Jib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)	
Working radius (m)	12.0	6.6		6.6			6.6			6.6			12.0	
	14.0	6.6		6.6			6.6			6.6			14.0	
	16.0	6.6	5.0	6.6	5.0		6.6	5.0		6.6	5.0		16.0	
	18.0	6.6	5.0	3.2	6.6	5.0	3.2	6.6	5.0		6.6	5.0	18.0	
	20.0	6.6	5.0	3.2	6.6	5.0	3.2	6.6	5.0	3.2	6.6	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	5.9	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	5.2	5.0	3.2	24.0
	26.0	4.8	4.9	3.2	4.7	5.0	3.2	4.6	5.0	3.2	4.5	4.9	3.2	26.0
	28.0	4.3	4.6	3.2	4.2	4.5	3.2	4.1	4.4	3.2	4.0	4.3	3.2	28.0
	30.0	3.8	4.1	3.1	3.7	4.0	3.2	3.6	3.9	3.2	3.5	3.8	3.2	30.0
	32.0		3.7	3.0	3.3	3.6	3.0	3.2	3.5	3.1	3.1	3.4	3.2	32.0
	34.0		3.3	2.8		3.2	2.9	2.9	3.1	3.0	2.7	3.0	3.1	34.0
	36.0		3.0	2.7		2.9	2.8		2.8	2.9	2.3	2.7	2.9	36.0
	38.0			2.6		2.6	2.7		2.5	2.7	2.0	2.4	2.6	38.0
	40.0			2.5			2.5		2.2	2.5		2.1	2.3	40.0
42.0			2.4			2.3			2.2		1.8	2.1	42.0	
44.0						2.1			2.0		1.5	1.8	44.0	
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)	42.7			45.7		Boom length (m)	
Jib length (m)	6.1	12.2	18.3	6.1	12.2	Jib length (m)	
Working radius (m)	14.0	6.6		6.6		14.0	
	16.0	6.6		6.6		16.0	
	18.0	6.6	5.0	6.6	5.0	18.0	
	20.0	6.6	5.0	6.6	5.0	20.0	
	22.0	5.9	5.0	6.6	5.8	5.0	22.0
	24.0	5.1	5.0	6.6	5.0	5.0	24.0
	26.0	4.4	4.8	6.6	4.3	4.7	26.0
	28.0	3.9	4.3	6.6	3.8	4.2	28.0
	30.0	3.4	3.8	6.6	3.3	3.7	30.0
	32.0	3.0	3.3	6.6	2.9	3.2	32.0
	34.0	2.6	3.0	6.6	2.4	2.9	34.0
	36.0	2.2	2.6	6.6	2.1	2.5	36.0
	38.0	1.9	2.3	6.6	1.7	2.1	38.0
	40.0	1.6	2.0	6.6	1.4	1.8	40.0
	42.0		1.7	6.6	1.2	1.5	42.0
44.0		1.4	6.6		1.3	44.0	
Reeves	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.

Refer to notes P10.



# Crane Boom Lifting Capacity with Fixed Jib

Unit: metric ton

Counterweight: 25.7 t, Carbody weight: 6.7 t

Boom length (m)	30.5			33.5			36.6			39.6			Boom length (m)	
Jib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)	
Working radius (m)	6.0	6.8m/31.9	6.8m/31.4	6.8m/30.9									6.0	
	7.0	30.9	30.4	29.9	7.3m/28.6	7.3m/28.1	7.3m/27.6	7.9m/25.6	7.9m/25.1	7.9m/24.6			7.0	
	8.0	26.7	26.2	25.7	24.6	24.1	23.6	23.8	23.3	22.8	8.4m/22.9	8.4m/22.4	8.4m/21.9	8.0
	9.0	23.4	22.9	22.4	21.5	21.0	20.5	20.9	20.4	19.9	21.3	20.8	20.3	9.0
	10.0	20.8	20.3	19.8	19.1	18.6	18.1	18.5	18.0	17.5	18.9	18.4	17.9	10.0
	12.0	16.8	16.3	15.8	15.3	14.8	14.3	14.9	14.4	13.9	15.4	14.9	14.4	12.0
	14.0	13.7	13.2	12.7	12.6	12.1	11.6	12.3	11.8	11.3	12.8	12.3	11.8	14.0
	16.0	11.2	10.7	10.2	10.4	9.9	9.4	10.3	9.8	9.3	10.8	10.3	9.8	16.0
	18.0	9.4	8.9	8.4	8.6	8.1	7.6	8.5	8.0	7.5	9.1	8.6	8.1	18.0
	20.0	8.0	7.5	7.0	7.2	6.7	6.2	7.1	6.6	6.1	7.6	7.1	6.6	20.0
	22.0	6.8	6.3	5.8	6.1	5.6	5.1	6.0	5.5	5.0	6.5	6.0	5.5	22.0
	24.0	5.9	5.4	4.9	5.2	4.7	4.2	5.1	4.6	4.1	5.5	5.0	4.5	24.0
	26.0	5.1	4.6	4.1	4.5	4.0	3.5	4.4	3.9	3.4	4.8	4.3	3.8	26.0
	28.0	27.7m/4.6	27.7m/4.1	27.7m/3.6	3.9	3.4	2.9	3.8	3.3	2.8	4.1	3.6	3.1	28.0
	30.0				3.4	2.9	2.4	3.2	2.7	2.2	3.6	3.1	2.6	30.0
	32.0				30.3m/2.9	30.3m/2.4	30.3m/1.9	2.8	2.3	1.8	3.1	2.6	2.1	32.0
34.0							33.0m/2.4	33.0m/1.9	33.0m/1.4	2.7	2.2	1.7	34.0	
36.0										35.0m/2.4	35.0m/1.9	35.0m/1.4	36.0	
Reeves	4	4	4	4	4	4	4	4	4	3	3	3	Reeves	

Boom length (m)	42.7			45.7			Boom length (m)	
Jib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)	
Working radius (m)	9.0	20.6	20.1	19.6	9.4m/19.0	9.4m/18.5	9.4m/18.0	9.0
	10.0	18.3	17.8	17.3	17.9	17.4	16.9	10.0
	12.0	14.9	14.4	13.9	14.5	14.0	13.5	12.0
	14.0	12.4	11.9	11.4	12.1	11.6	11.1	14.0
	16.0	10.4	9.9	9.4	10.2	9.7	9.2	16.0
	18.0	8.9	8.4	7.9	8.7	8.2	7.7	18.0
	20.0	7.5	7.0	6.5	7.4	6.9	6.4	20.0
	22.0	6.4	5.9	5.4	6.3	5.8	5.3	22.0
	24.0	5.4	4.9	4.4	5.3	4.8	4.3	24.0
	26.0	4.6	4.1	3.6	4.5	4.0	3.5	26.0
	28.0	4.0	3.5	3.0	3.9	3.4	2.9	28.0
	30.0	3.4	2.9	2.4	3.3	2.8	2.3	30.0
	32.0	2.9	2.4	1.9	2.8	2.3	1.8	32.0
	34.0	2.5	2.0	1.5	2.4	1.9	1.4	34.0
	36.0	2.2	1.7	1.2	2.1	1.6	1.1	36.0
	38.0	1.8	1.3		1.7	1.2		38.0
40.0	38.3m/1.8	38.3m/1.3		1.5			40.0	
42.0				40.9m/1.3			42.0	
Reeves	3	3	3	3	3	3	Reeves	

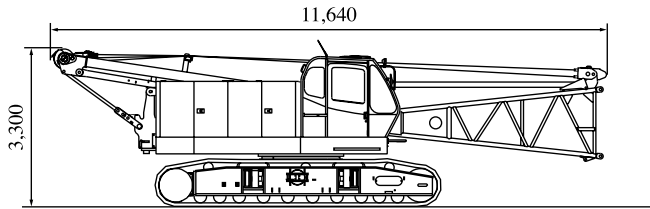
Note:  
Ratings according to EN13000.  
Refer to notes P10.

# PARTS AND ATTACHMENTS

Dimensions: mm, Weight: kg

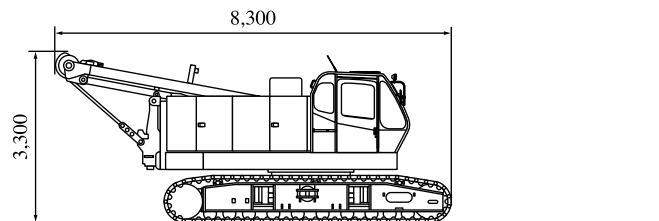
## Base Machine

With gantry, boom base, crawlers, wire ropes for main and aux. winches, lower spreader and upper spreader  
Weight: 41,240 kg Width: 3,390mm



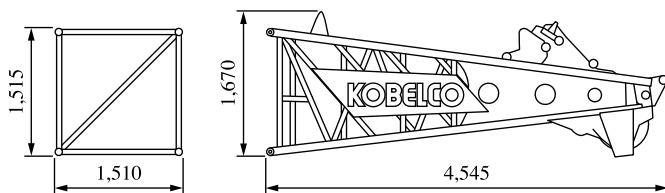
## Base Machine

With gantry, crawlers, wire ropes for main and aux. winches  
Weight: 38,940 kg Width: 3,390mm



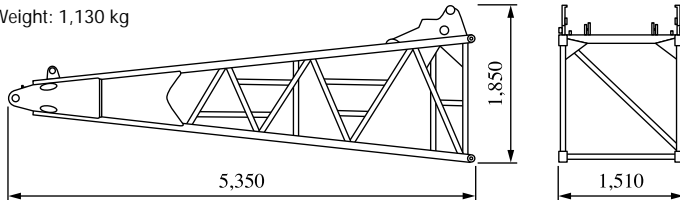
## Boom Top (with guy cables)

Weight: 1,160 kg



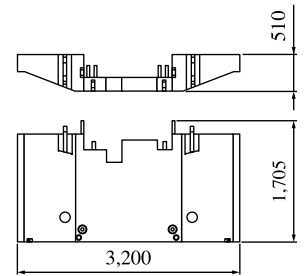
## Boom Base

Weight: 1,130 kg



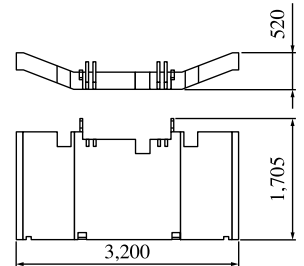
## Counterweight A

Weight: 8,990 kg



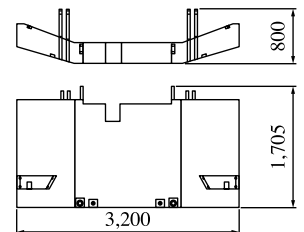
## Counterweight B

Weight: 7,370 kg



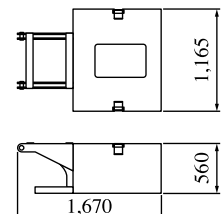
## Counterweight C

Weight: 9,350 kg



## Carbodyweight

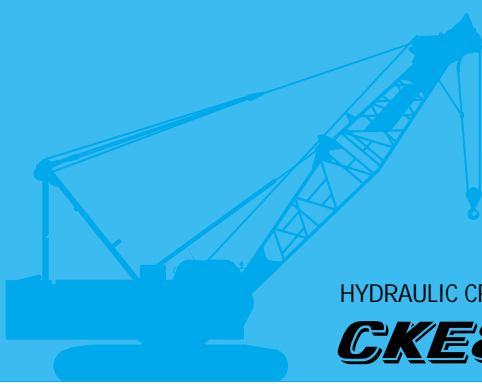
Weight: 3,340 kg (1 pc)



## Other Attachments

Attachment	Weight	Dimensions (L x W x H)
3.0 m insert boom	360 kg (with guy cables)	3,160 mm x 1,510 mm x 1,515 mm
6.1 m insert boom	600 kg (with guy cables)	6,210 mm x 1,510 mm x 1,515 mm
6.1 m insert boom with lug	620 kg (with guy cables)	6,210 mm x 1,510 mm x 1,645 mm
9.1 m insert boom	840 kg (with guy cables)	9,260 mm x 1,510 mm x 1,515 mm
9.1 m insert boom with lug	860 kg (with guy cables)	9,260 mm x 1,510 mm x 1,645 mm
Jib top	145 kg	3,475 mm x 675 mm x 625 mm
Jib base	125 kg	3,190 mm x 675 mm x 625 mm
6.1 m insert jib	165 kg (with guy cables)	6,160 mm x 675 mm x 625 mm
Jib strut	190 kg	3,700 mm x 670 mm x 500 mm
Auxiliary sheave	140 kg	1,010 mm x 1,310 mm
Crawler (1pc)	6,950 kg	5,990 mm x 800 mm x 980 mm
Upper spreader	280 kg	1,580 mm x 300 mm x 680 mm
Lower spreader	170 kg	870 mm x 300 mm x 610 mm
6.6-ton ball hook	160 kg	815 mm x 300 mm dia.
19-ton hook block	400 kg	590 mm x 385 mm x 1,270 mm
32-ton hook block	500 kg	590 mm x 330 mm x 1,530 mm
55-ton hook block	650 kg	590 mm x 435 mm x 1,470 mm
80-ton hook block	800 kg	600 mm x 530 mm x 1,705 mm

Note: Estimated weights may vary  $\pm$  2%



HYDRAULIC CRAWLER CRANE  
**CKE800**

**Standard Equipment**

**Upper structure/Lower structure**

Counterweight: 25.7 ton (total weight)  
 Carbody weight: 6.7 ton (total weight)  
 800 mm shoe crawlers  
 Batteries (150 Ah/20HR)  
 Travel kit  
 Gantry raising/lowering cylinder  
 Electric hand throttle grip  
 Variable boom hoist speed controller  
 Side deck for cab  
 Steps (crawlers)  
 Two front working lights  
 Upper spreader storage guide  
 Tools (for routine maintenance)  
 Two rear view mirrors  
 Mirror for monitoring drums  
 Electric fuel pump  
 Counterweight self removal  
 Cable roller (for boom)  
 Tool box (front of left-side guard)

**Cab/Control**

Boom hoist pedal (EU area only)  
 Air conditioner  
 Cup holder  
 Ashtray  
 Cigar lighter  
 Intermittent wiper & window washer  
 (skylight and front window)  
 Sun visor  
 Roof blind  
 Floor mat (cloth)  
 Foot rest  
 Shoe tray  
 Level gauge (operator cabin)

**Safety Device**

Load Moment Indicator (with boom lowering slow stop function)  
 LMI release key (for hook over-hoist prevention device  
 and boom over-hoist prevention device)  
 LCD multi display  
 Ultimate stop function for boom over-hoist  
 Function lock lever  
 Propel lever lock  
 Mechanical drum lock pawl (main, aux. and boom hoist)  
 Signal horn  
 Swing parking brake  
 Mechanical swing lock pin (two positions)  
 Swing flashers/warning buzzer  
 Cab window guard (left side)  
 Cab top guard  
 Fire extinguisher  
 External lamp for over-load alarm  
 Life hammer

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**KOBELCO CRANES CO., LTD.**

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

Inquiries To:

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