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G.H. JOHNSON CRANE HIRE LTD.

HYDRAULIC CRAWLER CRANE

CKE1800

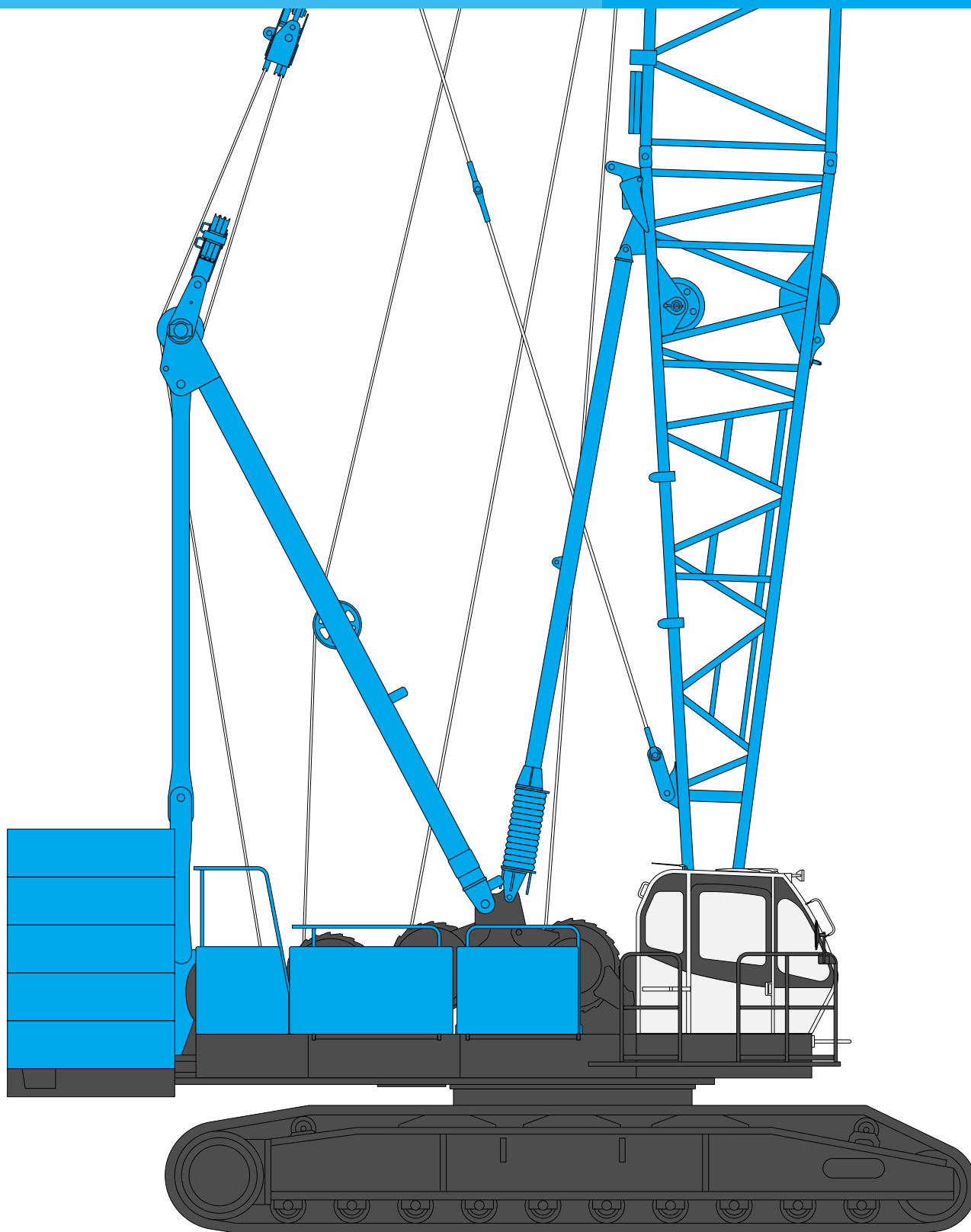
KOBELCO

Model: CKE1800-1F

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Max. Lifting Capacity: 180 ton x 3.75 m
Max. Crane Boom Length: 85.3 m
Max. Long Boom Length: 85.3 m
Max. Fixed Jib Combination: 73.2 m + 30.5 m
Max. Luffing Jib Combination: 54.9 m + 51.8 m

SPECIFICATIONS



Power Plant

Model: Hino diesel engine P11C-UN
Type: Water-cooled, direct fuel injection, with turbocharger
Complies with NRMM (Europe) Tier III and USA EPA Tier III
Displacement: 10.520 liters
Rated Power: 247 kW/ 2,000 min⁻¹ {rpm} (ISO)
Max. torque: 1,300 N·m/1,500 min⁻¹
Cooling system: Liquid, re-circulating bypass
Starter: 24V / 6.0 kW
Radiator: Corrugated type core, thermostatically controlled
Air cleaner: Dry type with replaceable paper element
Throttle: Electric throttle control, twist grip type
Fuel filter: Replaceable paper element.
Batteries: Two 12 V, 170 Ah/20 HR capacity batteries, series connected.
Fuel tank capacity: 400 liters



Hydraulic System

Four variable displacement piston pumps are driven by heavy-duty pump drive. Two of variable displacement pumps are used in the main hook hoist circuit, auxiliary hook hoist circuit, third hoist circuit and each propel circuit. One of the other two pumps is used in the boom hoist circuit, and 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 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/cm²}

Swing system: 27.5 MPa {280 kgf/cm²}

Control system: 7.0 MPa {71.3 kgf/cm²}

Reservoir capacity: 550 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: Double drum, grooved for 22 mm dia. wire rope.

Line speed: Double line on first drum layer

Hoisting/Lowering: 54 m/min

Diameter of wire ropes

Boom guy line: 30 mm

Boom hoist reeving: 16 parts of 22 mm dia. high strength wire rope

Boom backstops: Telescopic type with spring bumper
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:

617.4 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25 mm wire rope. Rope capacity is 430 m working length and 510 m storage length.

Rear drum:

617.1 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25 mm wire rope. Rope capacity is 335 m working length and 510 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: 100 m/min

Line Pull (Single-line):

Rated line pull: 132 kN {13.5 tf}



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (2 sets), 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: 2.6 min⁻¹ {rpm}



Upper Structure

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

Counterweight: 60.0 ton

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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:

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



Lower Structure

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Carbody weight: 20.0 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.

Shoes (flat): 64 shoes, 1,070 mm wide each crawler

Max. travel speed: 1.1/0.7 km/h

Max. gradeability: 30%



Weight

Including upper and lower machine, 60.0 ton counterweight and 20.0 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Specification	Weight	Ground pressure
Crane boom	Approx. 164 ton,	103 kPa {1.06 kgf/cm ² }
Luffing jib	Approx. 171.0 ton,	95.0 kPa {0.97 kgf/cm ² }



Attachment

Boom and Jib:

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

Boom and Jib Length

	Min. Length (Min. Combination)	Max. Length (Max. Combination)
Crane Boom	15.2 m	85.3 m
Luffing Boom	15.2 m	54.9 m
Long Boom	61.0 m	85.3 m
Fixed Jib	24.4 m + 12.2 m	73.2 m + 30.5 m
Luffing Jib	21.3 m + 21.3 m	54.9 m + 51.8 m

Main Specifications (Model: CKE 1800-1F)

Heavy Duty Crane Boom	
Max. Lifting Capacity	180 t/3.75 m
Max. Length	12.2 m
Crane Boom	
Max. Lifting Capacity	160 t/4.4 m
Max. Length	85.3 m
Luffing Boom	
Max. Lifting Capacity	110 t/5.2 m
Max. Length	54.9 m
Long Boom	
Max. Lifting Capacity	40.1 t/12.0 m
Max. Length	85.3 m
Fixed Jib	
Max. Lifting Capacity	26.8 t/15.2 m
Max. Length	30.5 m
Max. Combination	73.2 m + 30.5 m
Luffing Jib	
Max. Lifting Capacity	48.6 t/9.14 m
Jib Length	21.3 m ~ 51.8 m
Max. Combination	54.9 m + 51.8 m
Luffing Angle	60° ~ 88°
Working Speed	
Swing Speed	2.6 min ⁻¹ {rpm}
Travel Speed	1.1/0.7 km/h

Power Plant	
Model	Hino P11C-UN
Engine Output	247 kW/2,000 min ⁻¹ {rpm}
Fuel Tank Capacity	400 liters
Main & Aux. Winch	
Max. Line Speed	100 m/min (1st layer)
Rated Line Pull	132 kN {13.5 tf}
Wire Rope Diameter	25 mm
Wire Rope Length	430 m (Main) 335 m (Aux.)
Brake Type	Spring set hydraulically released (Negative)
Free Fall Brake	Wet-type multiple disc brake (Optional)
Hydraulic System	
Pumps	4 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm ² }
Hydraulic Tank Capacity	550 liters
Self Erection Device	
	Standard
Weight	
Operating Weight*	Approx. 164 t
Ground Pressure*	103 kPa {1.06 kgf/cm ² }
Counterweight	60.0 t (Upper), 20.0 t (Lower)
Transportation Weight**	Approx. 44.0 t

* Including upper and lower machine, 60.0 ton counterweight, 20.0 ton carbody weight, basic boom, hook, and other accessories.

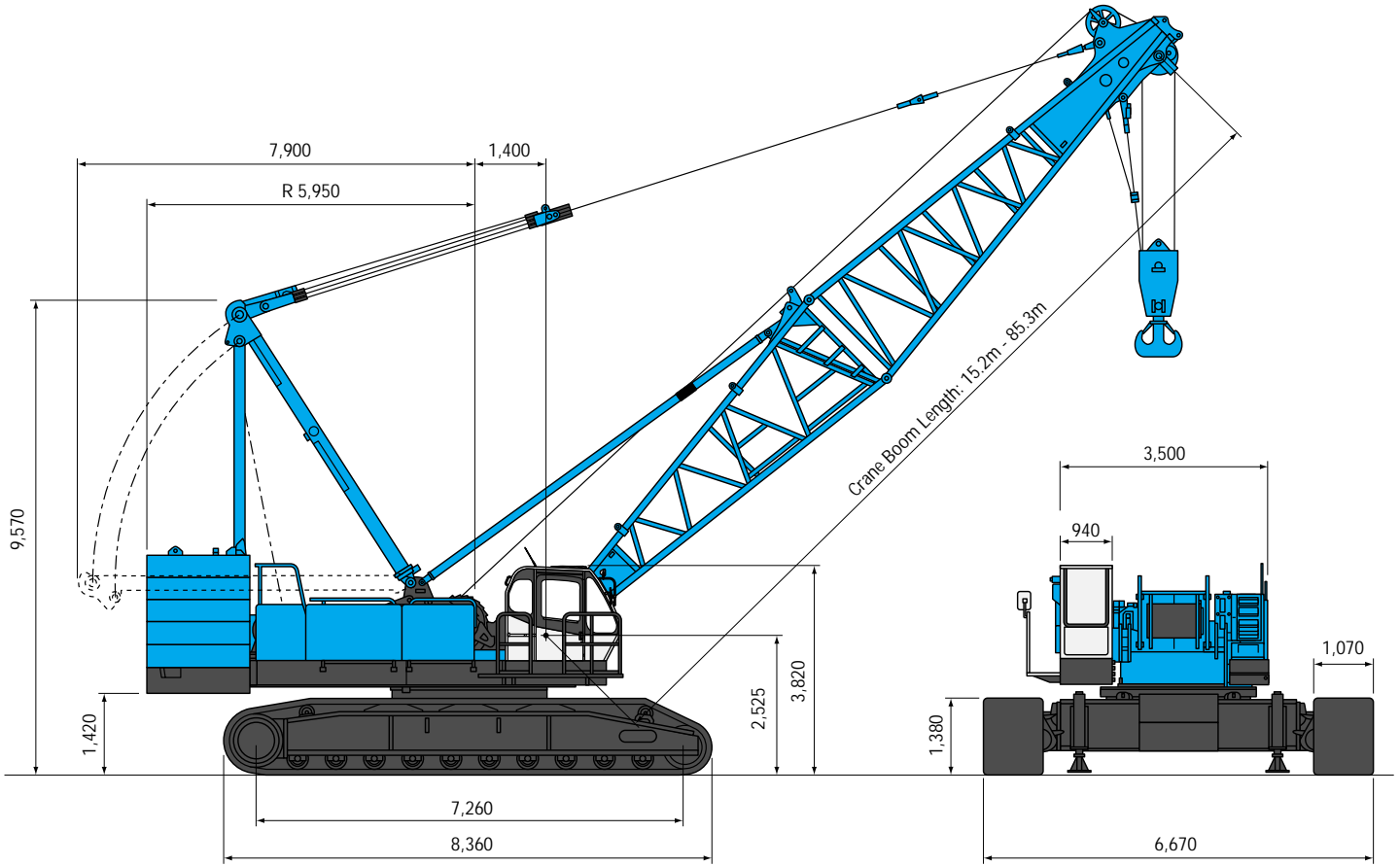
** Base machine with boom base, trans-lifter, main and aux. winches (non-freefall) including wire rope, self removal device.

Units are SI units. { } indicates conventional units.

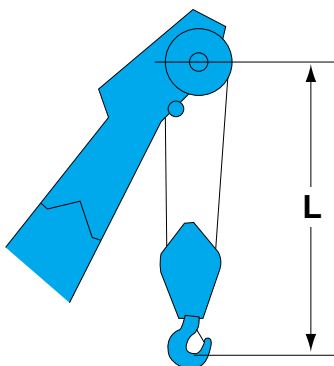
GENERAL DIMENSIONS

Crane Boom

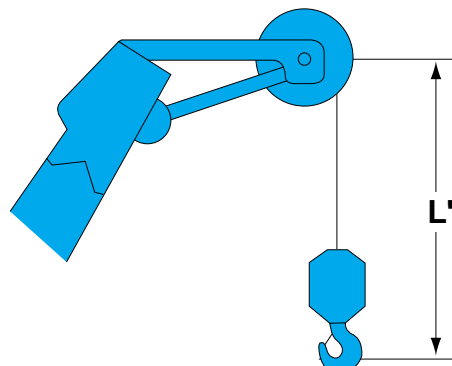
(Unit: mm)



Limit of Hook Lifting



Hook	L
180 t/160 t hook	5.2 m
110 t hook	5.1 m
70 t hook	4.9 m
35 t hook	4.7 m



Hook	L'
13.5 t ball hook	3.5 m

BOOM AND JIB ARRANGEMENTS

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Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
12.2 (40)	For Heavy Duty Crane Boom
15.2 (50)	
18.3 (60)	
21.3 (70)	
24.4 (80)	
27.4 (90)	
30.5 (100)	
33.5 (110)	
36.6 (120)	
39.6 (130)	
42.7 (140)	
45.7 (150)	
48.8 (160)	
51.8 (170)	
54.9 (180)	

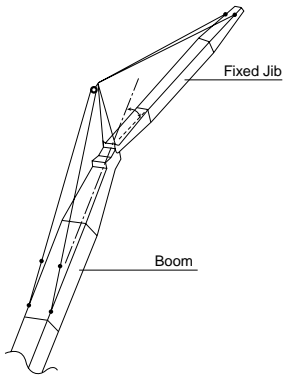
Boom length m (ft)	Boom arrangement
57.9 (190)	
61.0 (200)	
64.0 (210)	
67.1 (220)	
70.1 (230)	
73.2 (240)	
76.2 (250)	
79.3 (260)	
82.3 (270)	
85.3 (280)	

Symbol	Boom Length	Remarks
	8.5 m	Boom Base
	3.7 m	Heavy Duty Crane Boom Top
	6.7 m	Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom
	12.2 m	Insert Boom

↗ mark shows the guy line installing position when the fixed jib is used.
 ※ Indicates the most flexible combination of insert booms, which can be modified to form all shorter boom arrangements.

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Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
24.4 m 73.2 m	12.2(40)	
	18.3 (60)	
	24.4 (80)	
	30.5 (100)	

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

Long Boom Arrangements

Boom length m (ft)	Long Boom arrangement
61.0 (200)	
64.0 (210)	
67.1 (220)	
70.1 (230)	
73.2 (240)	
76.2 (250)	
79.3 (260)	
82.3 (270)	
85.3 (280)	

Symbol	Long Boom Length	Remarks
	8.5 m	Boom Base
	6.4 m	Luffing Jib Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom
	3.6 m	Tapered Boom
	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	9.1 m	Luffing Insert Jib

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



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	6
180/160-ton	2,800	8	-	26.8	40.1	53.5	66.9	80.3
110-ton	1,800	4	-	26.8	40.1	53.5	66.9	80.3
70-ton	1,200	3	-	26.8	40.1	53.5	66.9	70.0
35-ton	900	1	-	26.8	35.0	-	-	-
13.5-ton ball hook	460	0	13.5	-	-	-	-	-










Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)					
			7	8	9	10	12	14
180/160-ton	2,800	8	93.7	107.0	120.4	133.8	160.0	180.0
110-ton	1,800	4	93.7	107.0	110.0	-	-	-
70-ton	1,200	3	-	-	-	-	-	-
35-ton	900	1	-	-	-	-	-	-
13.5-ton ball hook	460	0	-	-	-	-	-	-



Main Hoist Drum Rated Loads in Metric Tons

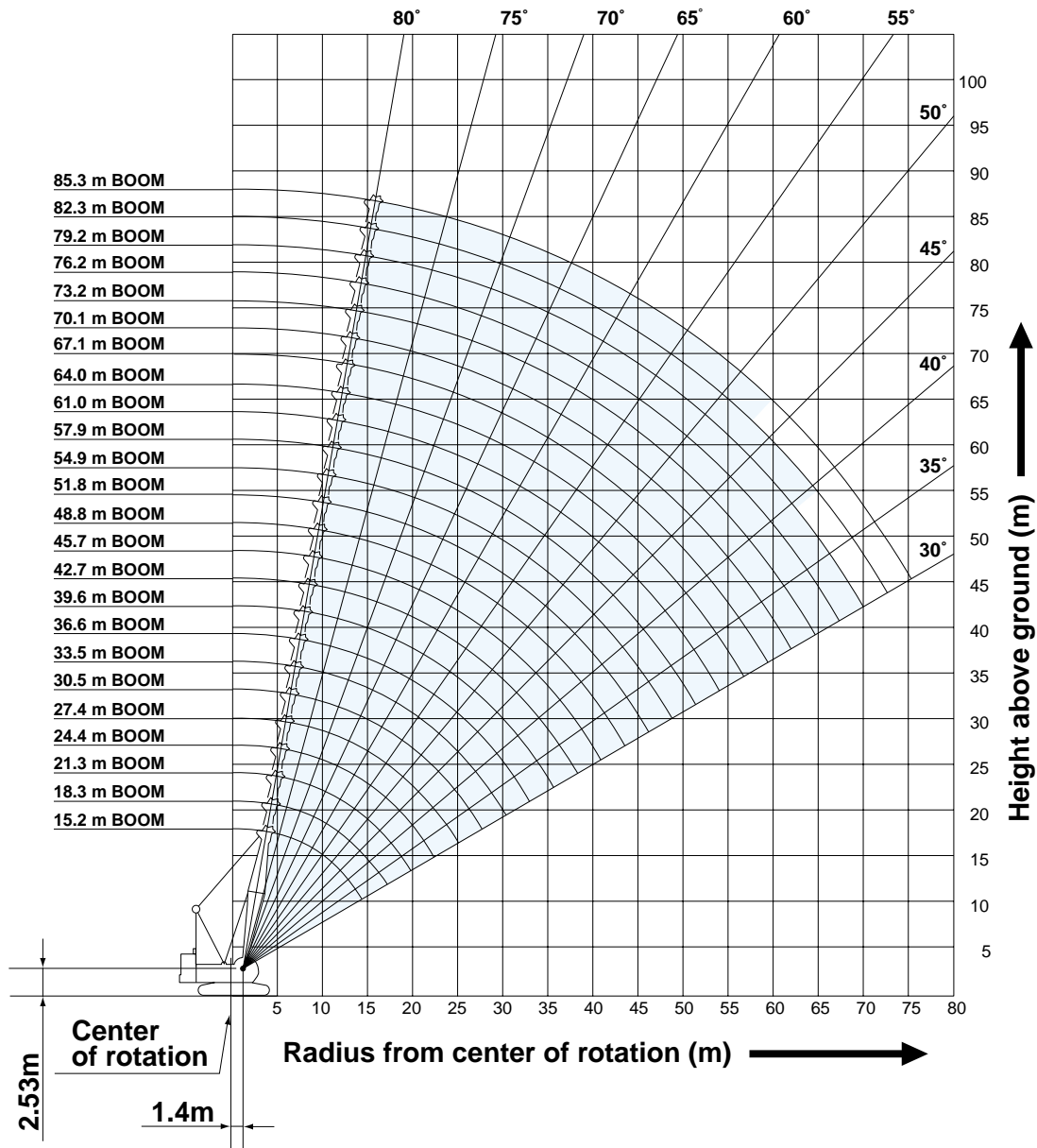
No. of Parts of Line	1	2	3	4	5	6
Max. Loads (ton)	13.5	26.8	40.1	53.5	66.9	80.3
No. of Parts of Line	7	8	9	10	12	14
Max. Loads (ton)	93.7	107.0	120.4	133.8	160.0	180.0

Symbols for Attachments:

								
Crane Boom	Auxiliary Sheave for Crane Boom	Luffing Boom	Aux. Sheave for Luffing Boom	Long Boom	Aux. Sheave for Long Boom	Fixed Jib	Luffing Jib	Luffing Boom with Luffing Jib

WORKING RANGES AND LIFTING CAPACITIES

Crane Boom Working Ranges



NOTES:

- Ratings according to EN13000.
- Ratings in metric tons for 360° working area.
- Operating radius is the horizontal distance from center 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 or auxiliary sheave 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. 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 16 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 crawlers, not laterally.
- Ratings shown in are determined by the strength of the boom or other structural component.
- Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
- Crane boom ratings: Deduct weight of hook block(s), slings, and all other load handling accessories from crane boom ratings shown.
- Auxiliary sheave ratings: Deduct 0.6 ton (weight of auxiliary sheave frame), weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown, but should not exceed 26.8 tons.
Crane boom lengths for auxiliary sheave mounting are 15.2 m to 82.3 m.
- Crane boom ratings with auxiliary sheave: Deduct 0.6 ton, weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown. Minimum ratings is 1.6 tons.
- Heavy duty crane boom ratings: Deduct weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown.



Crane Boom Lifting Capacity

Unit: metric ton

Counterweight: 60.0 t, Carbody weight: 20.0 t

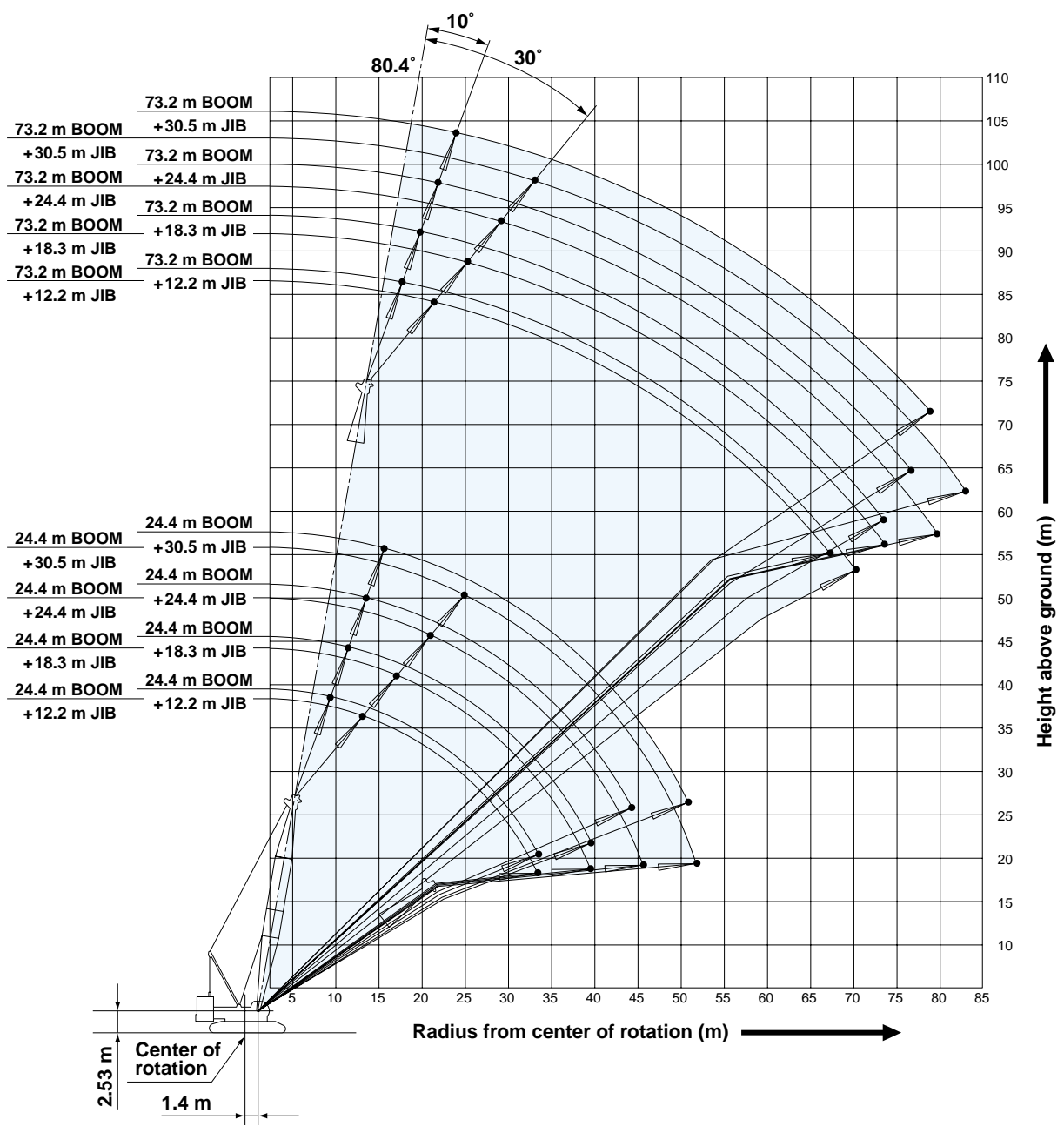
Working radius (m)	Boom Length (m)														Working radius (m)	
	12.2*	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8		
3.0	3.75m/180.0															3.0
4.0	171.5	4.4m/160.0	4.9m/144.2													4.0
5.0	140.5	141.6	141.6	5.4m/131.4	5.9m/121.3											5.0
6.0	119.1	119.3	119.3	119.3	119.3	6.4m/112.0	6.9m/103.9									6.0
7.0	102.0	102.7	102.7	102.7	102.7	102.7	102.5	7.4m/97.1	7.9m/90.6							7.0
8.0	88.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	8.4m/80.3	8.9m/76.8					8.0
9.0	76.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.4	76.3	9.4m/70.6				9.0
10.0	67.7	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	70.2	68.4	66.6	10.0m/65.4	10.5m/60.7		10.0
12.0	51.4	58.8	58.7	58.6	58.5	58.4	58.3	58.2	58.2	57.8	56.5	55.1	54.0	52.8		12.0
14.0	42.4m/50.0	47.2	47.7	47.6	47.4	47.3	47.2	47.0	47.0	46.9	46.7	46.5	46.0	45.0		14.0
16.0		44.8m/41.9	40.2	40.1	39.9	39.8	39.6	39.4	39.4	39.3	39.1	38.9	38.8	38.6		16.0
18.0			41.5m/35.9	34.4	34.2	34.1	34.0	33.7	33.7	33.6	33.3	33.2	33.1	32.9		18.0
20.0				30.1	29.8	29.6	29.5	29.3	29.2	29.1	28.9	28.7	28.6	28.4		20.0
22.0				20.1m/29.9	26.5	26.3	26.2	25.9	25.8	25.7	25.5	25.3	25.3	25.0		22.0
24.0					22.7m/25.4	23.6	23.4	23.2	23.0	22.9	22.7	22.5	22.4	22.2		24.0
26.0						25.4m/22.0	21.1	20.9	20.7	20.6	20.4	20.2	20.1	19.9		26.0
28.0							28.0m/19.2	19.0	18.8	18.7	18.5	18.3	18.2	18.0		28.0
30.0								17.4	17.2	17.1	16.9	16.7	16.6	16.4		30.0
32.0								30.7m/16.9	15.8	15.7	15.4	15.2	15.1	14.9		32.0
34.0									33.3m/15.0	14.4	14.2	14.0	13.9	13.6		34.0
36.0										35.9m/13.4	13.1	13.0	12.8	12.6		36.0
38.0											12.2	12.1	11.8	11.7		38.0
40.0											38.6m/12.0	11.1	11.0	10.7		40.0
42.0												41.2m/10.7	10.3	10.0		42.0
44.0													43.8m/9.7	9.4		44.0
46.0														8.7		46.0
48.0														46.5m/8.6		48.0
Reeves	14	12	12	10	10	9	8	8	7	6	6	6	5	5	Reeves	

* Values of 12.2 m boom length are lifting capacities for heavy duty crane boom.

Working radius (m)	Boom Length (m)														Working radius (m)
	54.9	57.9	61.0	64.0	67.1	70.1	73.2	76.2	79.2	82.3	85.3				
10.0	11.0m/56.4	11.5m/52.4													10.0
12.0	51.5	50.5	12.0m/48.3	12.5m/44.7	13.0m/41.2	13.5m/38.0									12.0
14.0	43.9	43.2	42.3	41.5	40.1	37.5	14.0m/34.5	14.5m/31.8	15.0m/29.0	15.5m/25.9					14.0
16.0	38.1	37.5	36.7	36.1	35.3	34.8	32.2	30.1	27.9	25.3	16.1m/21.0				16.0
18.0	32.7	32.7	32.3	31.8	31.1	30.7	29.8	27.8	25.9	22.9	19.0				18.0
20.0	28.3	28.2	28.0	27.9	27.7	27.3	26.7	25.8	23.9	20.9	17.2				20.0
22.0	24.9	24.8	24.6	24.5	24.4	24.2	24.0	23.6	22.0	19.1	15.6				22.0
24.0	22.1	22.0	21.9	21.7	21.6	21.4	21.4	21.3	20.3	17.5	14.2				24.0
26.0	19.7	19.7	19.4	19.4	19.2	19.0	19.0	18.9	18.7	16.0	13.0				26.0
28.0	17.8	17.7	17.5	17.5	17.3	17.1	17.0	17.0	16.8	14.7	11.8				28.0
30.0	16.2	16.1	15.9	15.8	15.6	15.5	15.4	15.3	15.2	13.5	10.8				30.0
32.0	14.7	14.6	14.4	14.3	14.2	14.0	13.9	13.8	13.7	12.4	9.9				32.0
34.0	13.5	13.4	13.2	13.1	12.9	12.8	12.7	12.6	12.4	11.4	9.0				34.0
36.0	12.4	12.3	12.1	12.0	11.9	11.7	11.6	11.5	11.3	10.4	8.2				36.0
38.0	11.4	11.3	11.2	11.1	10.9	10.8	10.7	10.5	10.3	9.6	7.4				38.0
40.0	10.6	10.4	10.2	10.2	10.0	9.8	9.7	9.6	9.4	8.7	6.7				40.0
42.0	9.9	9.7	9.5	9.4	9.3	9.1	9.0	8.9	8.7	8.0	6.0				42.0
44.0	9.2	9.0	8.9	8.8	8.5	8.4	8.3	8.2	8.0	7.3	5.4				44.0
46.0	8.5	8.4	8.2	8.1	7.9	7.7	7.6	7.5	7.4	6.6	4.8				46.0
48.0	8.0	7.9	7.6	7.6	7.4	7.2	7.1	7.0	6.8	6.0	4.2				48.0
50.0	49.1m/7.7	7.4	7.1	7.0	6.9	6.7	6.6	6.5	6.3	5.4	3.7				50.0
52.0		51.8m/6.9	6.7	6.6	6.4	6.2	6.0	5.9	5.8	4.8	3.2				52.0
54.0			6.2	6.2	6.0	5.7	5.6	5.5	5.3	4.3	2.7				54.0
56.0			54.4m/6.1	5.8	5.5	5.3	5.2	5.0	4.8	3.8	2.2				56.0
58.0				57.0m/5.5	5.1	4.9	4.7	4.6	4.4	3.3	1.8				58.0
60.0					59.7m/4.8	4.5	4.4	4.2	4.0	2.8	59.0m/1.6				60.0
62.0						4.2	4.0	3.9	3.7	2.4					62.0
64.0						62.3m/4.1	3.7	3.6	3.3	1.9					64.0
66.0							65.0m/3.5	3.2	2.9	65.0m/1.7					66.0
68.0								67.6m/3.0	2.4						68.0
70.0									70.0m/2.0						70.0
reeves	5	4	4	4	4	3	3	3	3	2	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 P12.

Fixed Jib Working Ranges Jib Offset Angle: 10°, 30°



NOTES:

1. Ratings according to EN 13000.
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. Deduct weight of hook block (s), slings and all other load handling accessories from fixed jib ratings shown.
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 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Ratings shown in are determined by the strength of the boom or other structural component.
13. The boom should be erected over the front of the crawlers not laterally.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Fixed jib ratings: Deduct weight of hook block (s), slings, and all other load handling accessories from jib ratings shown.
16. Boom lengths for jib mounting are 24.4 m to 73.2 m.
17. One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.



Fixed Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

Jib Offset Angle: 10°

Counterweight: 60.0 t, Carbody weight: 20.0 t

Boom length (m)		24.4				33.5				42.7				51.8				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	9.0	9.8m/26.8																	9.0
	10.0	26.8	11.0m/19.5			11.0m/26.8													10.0
	12.0	26.5	19.3	12.8m/10.1		26.3	12.8m/19.4			12.2m/26.8									12.0
	14.0	23.1	18.9	9.9	14.0m/6.1	24.3	19.1	14.6m/10.1		26.0	14.6m/19.3				14.0m/26.8				14.0
	16.0	20.7	18.1	9.7	5.9	22.8	18.7	9.9	16.8m/6.0	24.6	19.1	16.8m/10.0			26.0	16.8m/19.2			16.0
	18.0	19.2	17.5	9.5	5.8	21.4	18.2	9.7	5.9	23.2	18.6	9.9	18.3m/6.0	24.6	18.9	18.3m/9.9	19.8m/6.0		18.0
	20.0	18.0	16.2	9.3	5.6	20.1	17.6	9.5	5.8	21.9	18.1	9.7	5.9	23.4	18.5	9.8	6.0		20.0
	22.0	16.9	14.3	8.8	5.3	19.1	16.7	9.3	5.6	20.8	17.7	9.5	5.8	22.3	18.1	9.7	5.9		22.0
	24.0	16.0	13.2	8.4	5.0	18.1	15.4	9.0	5.4	19.8	17.2	9.4	5.7	21.3	17.8	9.5	5.8		24.0
	26.0	15.2	12.2	8.1	4.8	17.1	14.3	8.7	5.2	18.9	16.1	9.2	5.5	20.0	17.4	9.4	5.6		26.0
	28.0	14.4	11.3	7.8	4.6	16.4	13.3	8.3	4.9	18.0	15.1	8.8	5.3	18.1	16.7	9.3	5.5		28.0
	30.0	13.7	10.6	7.4	4.4	15.7	12.5	8.0	4.7	16.8	14.2	8.6	5.0	16.4	15.7	9.0	5.3		30.0
	34.0	33.5m/12.7	9.4	6.9	4.0	14.5	11.1	7.5	4.4	14.2	12.6	8.0	4.7	13.7	13.9	8.5	4.9		34.0
	38.0		8.4	6.5	3.7	12.7	10.0	7.1	4.0	12.2	11.4	7.6	4.4	11.6	11.8	8.0	4.6		38.0
	42.0		39.6m/8.2	6.2	3.4	39.6m/12.0	9.1	6.7	3.8	10.5	10.4	7.2	4.1	9.9	10.2	7.6	4.4		42.0
	46.0			44.2m/6.1	3.2		45.7m/8.4	6.4	3.5	9.2	9.4	6.8	3.9	8.6	8.8	7.3	4.1		46.0
	50.0				3.0			6.1	3.3	48.8m/8.4	8.3	6.5	3.6	7.5	7.7	6.9	3.9		50.0
	54.0				50.3m/3.0			51.8m/6.1	3.2		7.3	6.3	3.4	6.5	6.8	6.7	3.7		54.0
58.0								57.9m/3.0		54.9m/7.1	6.1	3.3	57.9m/5.8	5.9	6.2	3.5		58.0	
62.0											61.0m/6.0	3.1		61.0m/5.4	5.5	3.4		62.0	
66.0												3.0			4.9	3.2		66.0	
70.0													67.1m/3.0		67.1m/4.7	3.1		70.0	
74.0																73.2m/3.0		74.0	
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	Reeves		

Boom length (m)		61.0				70.1				73.2				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	16.0	16.8m/26.6				16.8m/21.7									16.0
	18.0	25.9	18.3m/19.1	19.8m/9.9		21.4	19.8m/19.1			18.3m/19.1	19.8m/18.7				18.0
	20.0	24.7	18.8	9.9	21.3m/6.0	21.0	19.1	21.3m/9.9		18.8	18.7	21.3m/9.9			20.0
	22.0	23.6	18.5	9.8	5.9	20.6	18.7	9.9	22.9m/5.9	18.4	18.3	9.9	22.9m/6.0		22.0
	24.0	21.8	18.1	9.7	5.9	20.2	18.4	9.8	5.9	18.0	17.9	9.8	5.9		24.0
	26.0	19.6	17.8	9.5	5.7	19.1	18.1	9.7	5.8	17.6	17.5	9.7	5.8		26.0
	28.0	17.6	17.3	9.4	5.6	17.1	17.4	9.5	5.7	16.9	16.9	9.5	5.7		28.0
	30.0	15.9	16.1	9.3	5.5	15.4	15.7	9.4	5.6	15.2	15.6	9.4	5.6		30.0
	34.0	13.2	13.4	8.8	5.2	12.7	13.0	9.2	5.4	12.5	12.8	9.2	5.4		34.0
	38.0	11.1	11.3	8.4	4.9	10.6	10.9	8.7	5.1	10.4	10.7	8.8	5.2		38.0
	42.0	9.4	9.7	8.0	4.6	8.9	9.2	8.3	4.8	8.8	9.0	8.4	4.9		42.0
	46.0	8.0	8.3	7.6	4.4	7.6	7.8	7.9	4.6	7.3	7.6	8.0	4.6		46.0
	50.0	6.9	7.2	7.3	4.1	6.5	6.7	7.1	4.3	6.3	6.5	6.8	4.4		50.0
	54.0	6.0	6.2	6.5	3.9	5.5	5.8	6.1	4.1	5.3	5.5	5.9	4.2		54.0
	58.0	5.2	5.4	5.7	3.7	4.6	4.9	5.3	3.9	4.4	4.6	5.1	4.0		58.0
	62.0	4.4	4.7	5.0	3.5	3.8	4.1	4.5	3.8	3.5	3.8	4.2	3.8		62.0
	66.0	64.0m/4.1	4.0	4.4	3.4	3.1	3.4	3.8	3.6	2.8	3.0	3.5	3.6		66.0
	70.0		3.4	3.7	3.3	2.4	2.7	3.1	3.3	2.1	2.4	2.8	2.9		70.0
74.0		70.1m/3.4	3.1	3.2	73.2m/2.0	2.1	2.5	2.7	70.1m/2.1	73.2m/2.0	2.3	2.4		74.0	
78.0			76.2m/2.9	2.8		76.2m/1.9	2.0	2.2			76.2m/2.0	77.7m/2.0		78.0	
82.0				2.3			79.2m/1.9	80.8m/1.9						82.0	
86.0				82.3m/2.3										86.0	
Reeves	2	2	1	1	2	2	1	1	2	2	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 P18.

One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.

HYDRAULIC CRAWLER CRANE CKE1800

Unit: metric ton

Jib Offset Angle: 30°

Counterweight: 60.0 t, Carbody weight: 20.0 t

Boom length (m)		24.4				33.5				42.7				51.8				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	12.0	13.4m/17.2																	12.0
	14.0	17.2				14.6m/17.2													14.0
	16.0	16.0	16.8m/12.8			16.8				16.8m/17.1									16.0
	18.0	15.2	12.2			16.1	18.3m/12.8			16.7	19.8m/12.8			18.3m/17.1					18.0
	20.0	14.3	11.2	21.3m/7.5		15.6	12.1			16.1	12.8			16.6	21.3m/12.8				20.0
	22.0	13.5	10.5	7.4		14.8	11.4	22.9m/7.5		15.7	12.1			16.2	12.6				22.0
	24.0	12.7	9.8	7.2	24.4m/4.1	14.1	10.8	7.4	25.9m/4.1	15.2	11.4	24.4m/7.5		15.8	12.0	25.9m/7.5			24.0
	26.0	12.1	9.3	7.0	4.0	13.4	10.2	7.2	4.1	14.5	10.9	7.4	27.4m/4.1	15.3	11.5	7.5			26.0
	28.0	11.6	8.8	6.8	3.9	12.8	9.7	7.0	4.0	13.9	10.4	7.2	4.1	14.8	11.0	7.4	29.0m/4.1		28.0
	30.0	11.2	8.3	6.5	3.7	12.3	9.2	6.8	3.9	13.4	9.9	7.1	4.0	14.2	10.5	7.2	4.0		30.0
	34.0	33.5m/10.6	7.6	5.9	3.4	11.5	8.4	6.4	3.6	12.5	9.1	6.8	3.8	13.3	9.8	6.9	3.9		34.0
	38.0		7.1	5.4	3.3	36.6m/11.1	7.8	5.9	3.4	11.7	8.5	6.4	3.5	11.9	9.1	6.7	3.7		38.0
	42.0		39.6m/7.0	5.0	3.1		7.4	5.5	3.3	10.7	8.0	5.9	3.4	10.2	8.6	6.3	3.5		42.0
	46.0			45.7m/4.8	3.0		42.7m/7.3	5.2	3.1	45.7m/9.4	7.5	5.6	3.3	8.8	8.1	5.9	3.4		46.0
	50.0				2.9			48.8m/5.0	3.0		7.2	5.3	3.1	7.6	7.7	5.6	3.2		50.0
	54.0				51.8m/2.9				2.9		51.8m/7.1	5.0	3.0	51.8m/7.2	7.1	5.4	3.2		54.0
	58.0								54.9m/2.9			57.9m/4.9	2.9		57.9m/6.2	5.1	3.0		58.0
	62.0												2.9			4.9	3.0		62.0
66.0												64.0m/2.9			64.0m/4.9	2.9		66.0	
70.0																2.9		70.0	
74.0																70.1m/2.9		74.0	
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	1	Reeves	

Boom length (m)		61.0				70.1				73.2				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	18.0	19.8m/17.1													18.0
	20.0	17.0				21.3m/17.1				21.3m/17.2					20.0
	22.0	16.6	22.9m/12.8			16.9				17.1					22.0
	24.0	16.2	12.5			16.6	24.4m/13.2			16.7	25.9m/12.9				24.0
	26.0	15.9	12.0	27.4m/7.5		16.2	12.8			16.4	12.9				26.0
	28.0	15.5	11.5	7.5		15.9	12.3	29.0m/7.5		16.0	12.4	29.0m/7.6			28.0
	30.0	15.0	11.0	7.3	30.5m/4.1	15.6	11.8	7.5	32.0m/4.1	15.6	12.0	7.5	32.0m/4.1		30.0
	34.0	13.6	10.3	7.1	3.9	13.2	11.1	7.2	4.0	13.1	11.2	7.3	4.0		34.0
	38.0	11.4	9.6	6.8	3.8	11.1	10.4	7.0	3.8	10.9	10.5	7.0	3.9		38.0
	42.0	9.7	9.1	6.6	3.6	9.3	9.8	6.8	3.7	9.1	9.8	6.8	3.7		42.0
	46.0	8.3	8.6	6.3	3.4	7.9	8.5	6.6	3.5	7.7	8.3	6.7	3.6		46.0
	50.0	7.1	7.6	5.9	3.4	6.7	7.3	6.4	3.4	6.5	7.1	6.5	3.4		50.0
	54.0	6.2	6.6	5.7	3.3	5.8	6.3	6.1	3.4	5.6	6.1	6.2	3.4		54.0
	58.0	57.9m/5.3	5.8	5.4	3.1	4.9	5.4	5.7	3.2	4.6	5.2	5.6	3.3		58.0
	62.0		5.0	5.2	3.0	4.0	4.6	4.9	3.1	3.7	4.4	4.8	3.2		62.0
	66.0		64.0m/4.7	4.6	3.0	3.2	3.8	4.2	3.1	2.9	3.6	4.0	3.1		66.0
	70.0			4.0	2.9	67.1m/3.0	3.1	3.5	3.0	67.1m/2.8	2.9	3.3	3.0		70.0
	74.0			70.1m/4.0	2.9		73.2m/2.6	2.9	2.9		73.2m/2.4	2.6	2.9		74.0
78.0				76.2m/2.9			2.3	2.6			2.0	2.4		78.0	
82.0							79.2m/2.1	2.0			79.2m/1.9	1.8		82.0	
84.0								83.8m/1.8				82.3m/1.8		84.0	
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	1	Reeves	

Note: Ratings according to EN13000.

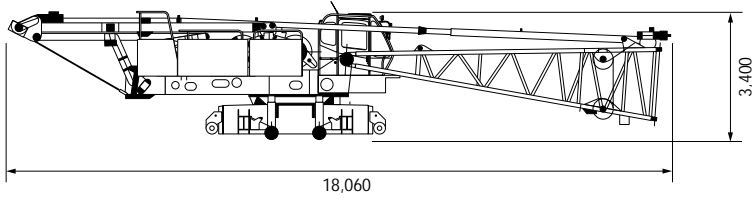
Ratings shown in are determined by the strength of the boom or other structural components.

Refer to notes P18.

PARTS AND ATTACHMENTS

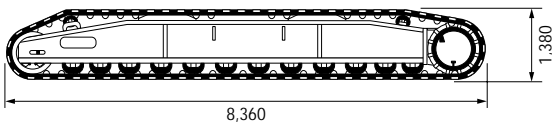
Base Machine + Boom Base

With boom base, trans-lifter, main and aux. winches (non free-fall) including wire rope, self removal device
 Weight: approx. 44,000 kg*, Width: 3,500 mm



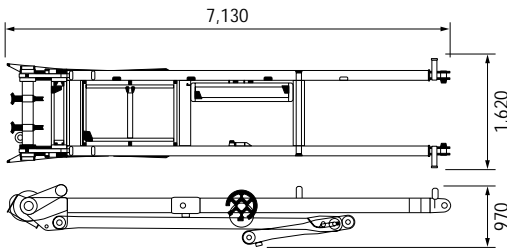
Crawler

Weight: 17,155 kg, Width: 1,070 mm



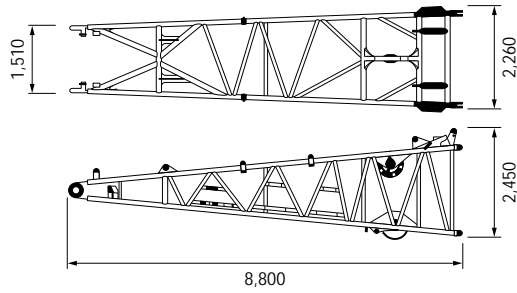
Gantry

Weight: 2,700 kg



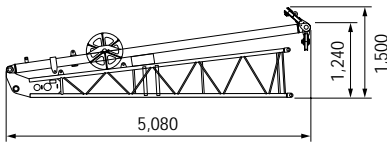
Boom Base

Weight: 2,620 kg



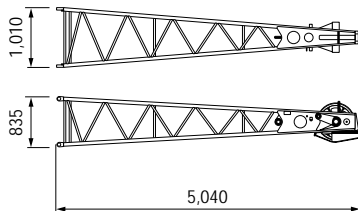
Jib Base with Strut (For Crane)

Weight: 510 kg, Width: 1,040 mm



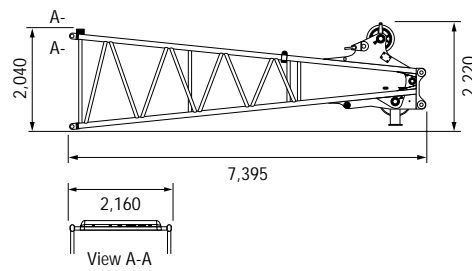
Jib Top (For Crane)

Weight: 315 kg

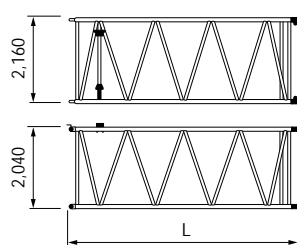


Boom Top

Weight: 2,240 kg (with Guy Cables)



Insert Boom

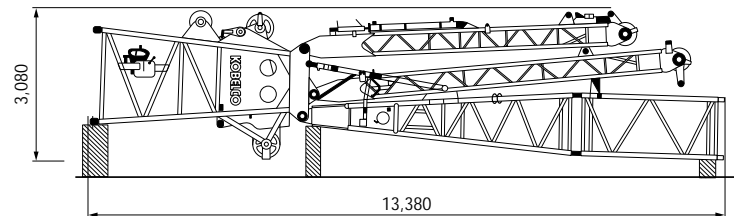


	L (mm)	Weight (kg)*
3.0m	3,180	630
6.1m	6,230	1,030
9.1m	9,280	1,420
12.2m	12,320	1,680

*with guy cables

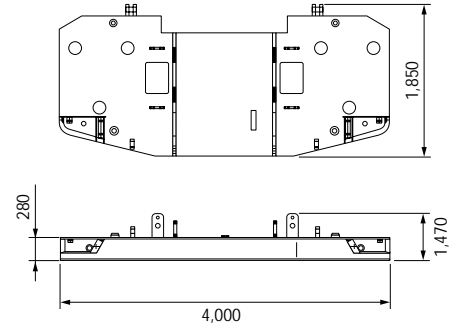
Travel Kit Assembly

Weight: 6,600 kg



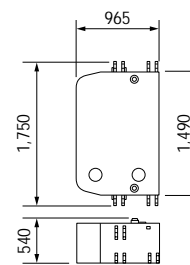
Counterweight A

Weight: 10,000 kg



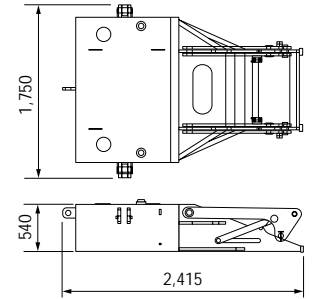
Counterweight B

Weight: 5,000 kg x 10 pieces



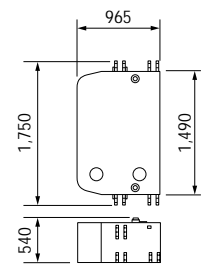
Carbody Weight A

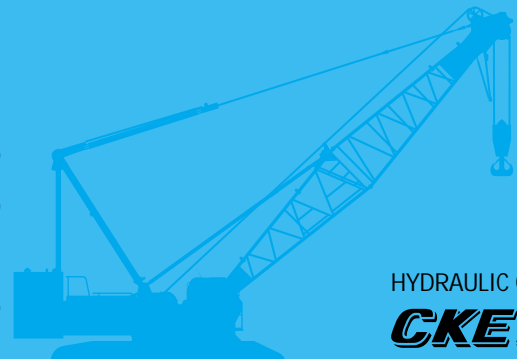
Weight: 5,000 kg x 2 pieces



Carbody Weight B

Weight: 5,000 kg x 2 pieces





HYDRAULIC CRAWLER CRANE
CKE1800

Standard Equipment

Upper structure/Lower structure

- Counterweight: 60.0 ton (total weight)
- Carbody weight: 20.0 ton (total weight)
- 1,070 mm shoe crawlers
- Batteries (170 Ah/20 HR)
- Trans-lifter (jack system)
- Gantry raising/lowering cylinder
- Electric hand throttle grip
- Variable boom hoist speed controller
- Swing neutral-free/brake select switch
- Side deck for cab
- Side deck (right side guard)
- Steps (crawlers)
- Two front working lights
- Tools (for routine maintenance)
- Two rear view mirrors
- Electric fuel pump
- Counterweight self removal
- Crawler self removal
- Cable roller (for boom)

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 (four positions)
- Swing flashers/warning buzzer
- Cab window guard (left side)
- Cab top guard
- Fire extinguisher
- External lamp for over-load alarm
- Life hammer

Note: Standard equipment may vary depending on your areas or countries.
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