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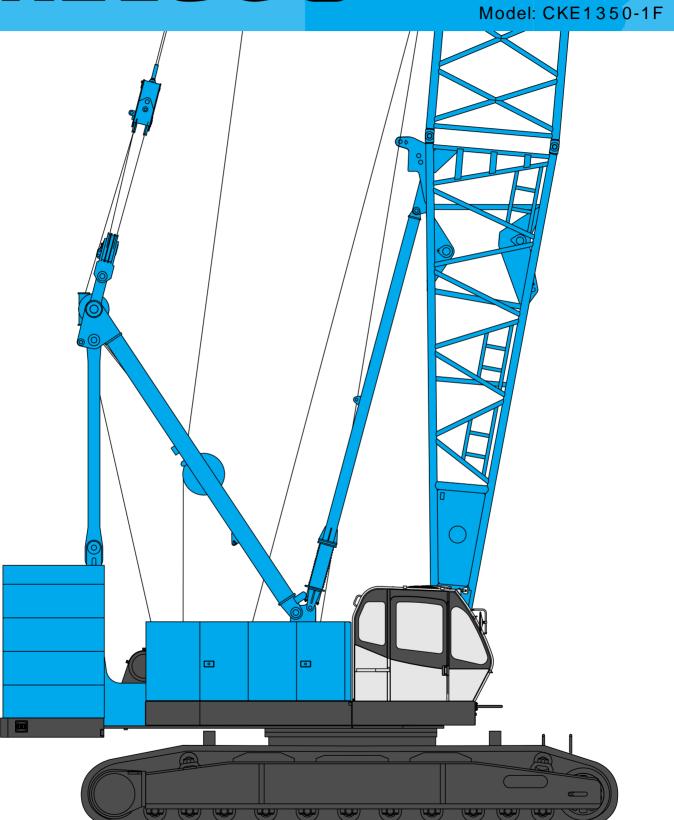
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HYDRAULIC CRAWLER CRANE

CKE135



Max. Lifting Capacity: 135 t x 4.5 m Max. Crane Boom Length: 76.2 m

Max. Long Boom Length: 82.3 m Max. Fixed Jib Combination: 61.0 m + 30.5 m

Max. Luffing Jib Combination: 47.9 + 32.0 m, 44.8 + 53.3 m

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SPECIFICATIONS



Power Plant

Model: Hino diesel engine P11C-UN

Type:Water-cooled, direct fuel injection, with turbocharger Compiles with NRMM (Europe) Stage IIIA and US 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, recirculating bypass

Starter: 24 V/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 12V, 170Ah/20HR capacity batteries, parallel

connected.

Fuel tank capacity: 400 liters



Hydraulic System

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

Reservoir capacity: 535 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.

counter-balance valve.

Drum lock: External ratchet for locking drum.

Drum: Single drum, grooved for 20 mm dia. wire rope.

Line speed: Single line on first drum layer **Hoisting/Lowering:** 48 to 2 m/min

Diameter of wire ropes

Boom guy line: 30 mm

Boom hoist reeving: 12 parts of 20 mm dia. high strength

wire rop

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

tem.)

Drum lock: External ratchet for locking drum

Drums:

Front drum:

666 mm P.C.D. x 672 mm Lg. wide drum, grooved for 26 mm wire rope. Rope capacity is 275 m working length and 350 m storage length.

Rear drum:

666 mm P.C.D. x 672 mm Lg. wide drum, grooved for 26 mm wire rope. Rope capacity is 255 m working length and 350 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

Rated line pull (Single-line): 132 kN {13.5 tf}



Swing System

Swing unit is powered by hydraulic motor driving spur gear 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: 2.1 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 EC Directive 2000/14/EC.

Counterweight: 53.0 ton

Note: Lifting capacity setting with 48.0 ton counterweight (without carbody weight) available as option.

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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 (roof 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 guick 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: 10.0 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 opera-

Shoes (flat): 60 shoes, 910 mm wide each crawler (Optional 1,220 mm shoe is available)

Max. travel speed: 1.3/0.9 km/h

Max. gradeability: 30%



Weight

Including upper and lower machine, 53.0 ton counterweight and 10.0 ton carbody weight, 15.2 m basic boom (or 32.7 m basic luffing boom + 22.9 m basic luffing jib), hook and other accessories.

Specification Weight **Ground pressure** Crane boom Approx. 136 ton, 106 kPa {1.08 kgf/cm²} Luffing jib Approx. 149 ton, 116 kPa {1.18 kgf/cm²}



Attachment

Boom and Jib:

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

Boom and Jih Length

Booth and Jib Length				
	Min. Length	Max. Length		
	(Min. Combination)	(Max. Combination)		
Crane Boom	15.2 m	76.2 m		
Luffing Boom	14.4 m	47.9 m		
Long Boom	51.8 m	82.3 m		
Fixed Jib	24.4 m + 12.2 m	61.0 m + 30.5 m		
Luffing Jib	32.7 m + 22.9 m	47.9 m + 32.0 m/ 44.8 m + 53.3 m		

Main Specifications (Model: CKE1350-1F)

•						
Crane Boom						
Max. Lifting Capacity	135 t/4.5 m					
Max. Length	76.2 m					
Luffing Boom						
Max. Lifting Capacity	80 t/8.0 m					
Max. Length	47.9 m					
Long Boom						
Max. Lifting Capacity	44.3 t/10.6 m					
Max. Length	82.3 m					
Fixed Jib						
Max. Lifting Capacity	26.8 t/16.0 m					
Max. Length	30.5 m					
Max. Combination	61.0 m + 30.5 m					
Luffing Jib						
Max. Lifting Capacity	36 t/12.0 m					
Max. Combination	47.9 m + 32.0 m, 44.8 m + 53.3 m					
Main & Aux. Winch						
Max. Line Speed	120 m/min (1st layer)					
Rated Line Pull (Single Line)	132 kN {13.5 tf}					
Wire Rope Diameter	26 mm					
Wire Rope Length	275 m (Main) 255 m (Aux.)					
Brake Type	Spring-set hydraulically released (Nagative)					
Free-Fall Brake Type	Wet-type multiple disc brake (Optional)					

Working Speed						
Swing Speed	2.1 min ⁻¹ {rpm}					
Travel Speed	1.3/0.9 km/h					
Power Plant						
Model	Hino P11C-UN					
Engine Output	247 kW/2,000 min ⁻¹ {rpm}					
Fuel Tank Capacity	400 liters					
Hydraulic System						
Main Pumps	4 variable displacement					
Max. Pressure	31.9 MPa {325 kgf/cm²}					
Hydraulic Tank Capacity	535 liters					
Self-Removal Device	Standard counterweight removal					
Weight						
Operating Weight*	Approx. 136 t					
Ground Pressure*	106 kPa {1.08 kgf/cm²}					
Counterweight	53.0 t (Upper), 10.0 t (Lower)					
Transport Weight**	Approx. 39.7 t					

^{*} Including upper and lower machine, 53.0 ton counterweight and 10.0 ton carbody weight, basic boom, hook, and other accessories.

Units are SI units. { } indicates conventional units.

^{*} Base machine with trans-lifter, 70 t hook, main and aux. winches (non-free fall) including wire rope, self removal device.

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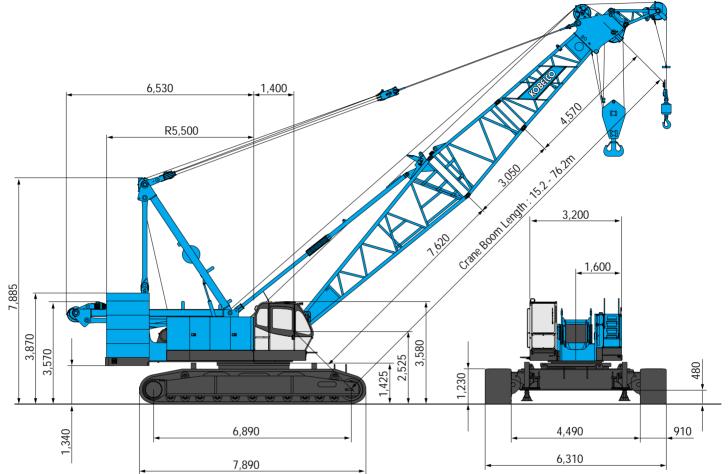
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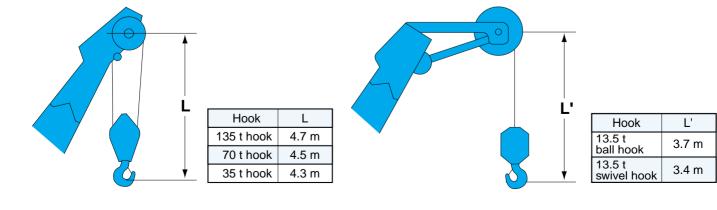
GENERAL DIMENSIONS

Crane Boom

(Unit: mm)



Limit of Hook Lifting



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Hook Blocks

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

Hooks	Moight (kg)	No. of	No. of lines and max. rated loads (tons)									
HOOKS	Weight (kg)	sheaves	1	2	3	4	5	6	7	8		
135-ton	1,700	5	-	27.0	40.5	54.0	67.5	81.0	94.5	108.0		
70-ton	1,200	3	-	27.0	40.5	54.0	67.5	70.0	-	-		
35-ton	900	1	-	27.0	35.0	-	-	-	-	-		
13.5-ton ball hook	450	0	13.5	-	-	-	-	-	-	-		
13.5-ton swivel hook	100	0	13.5	-	-	-	-	-	-	-		

Hooks	Moight (kg)	No. of	No. of lines and max. rated loads (tons)			
HOOKS	Weight (kg)	sheaves	9	10		
135-ton	1,700	5	121.5	135.0		
70-ton	1,200	3	-	-		
35-ton	900	1	-	-		
13.5-ton ball hook	450	0	-	-		
13.5-ton swivel hook	100	0	-	-		

Main Hoist Drum Rated Loads in Metric Tons

No. of Parts of Line	1	2	3	4	5	6	7	8
Max. Loads (ton)	13.5	27.0	40.5	54.0	67.5	81.0	94.5	108.0

No. of Parts of Line	9	10
Max. Loads (ton)	121.5	135.0

Symbols for Attachments:



















Crane Boom

Auxiliary Sheave for Crane Boom

Luffing Boom

Auxiliary Sheave for Luffing Boom

Long Boom

Auxiliary Sheave for Long Boom

Fixed Jib

Luffing Jib

Luffing Boom with Luffing Jib

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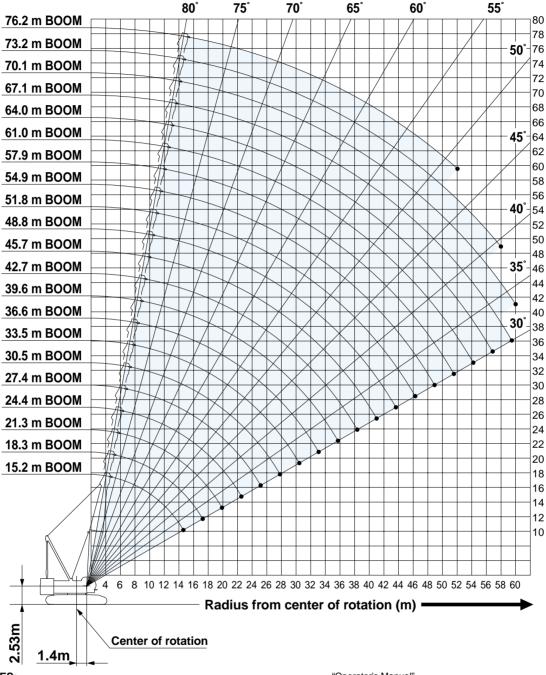
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Height above ground (m)

WORKING RANGES AND LIFTING CAPACITIES

Crane Boom Working Ranges



NOTES:

- 1. Ratings according to EN13000.
- 2. 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.
- 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.
- loads and operating speeds accordingly.

 6. 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.
- 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. 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.
- 14. When erecting or lowering the boom length of 73.2 m or over, the pillow plate for erection must be placed at the end of crawlers.
- 15. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
- Crane boom ratings: Deduct weight of hook block, slings, and all other load handling accessories from crane boom ratings shown.
- 17. Auxiliary sheave ratings for crane boom: Deduct weight of hook block, slings, and all other load handling accessories from auxiliary sheave ratings for crane boom shown.
- 18. Crane boom lengths for auxiliary sheave mounting are 15.2 m to 73.2 m.

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Crane Boom Lifting Capacity

Unit: metric ton

Counterweight:	53.0 t.	Carbody	weight:	10.0	t

Boom length Working (m) radius (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7		Boom length (m) Working radius (m)
4.5	4.5 m/135.0												4.5
5.0	131.1	5.1 m/128.4	5.6 m/117.2										5.0
6.0	110.4	110.1	109.6	6.1 m/107.8	6.7 m/95.1								6.0
7.0	95.1	94.8	93.3	91.1	89.3	7.2 m/84.2	7.7 m/75.3						7.0
8.0	79.5	79.9	79.1	77.4	75.9	74.6	72.4	8.2 m/67.8	8.8 m/61.7				8.0
9.0	67.7	68.8	68.5	67.2	66.0	64.9	62.5	61.5	60.0	9.3 m/56.3	9.8 m/51.8		9.0
10.0	58.4	59.0	59.0	58.8	58.3	57.4	56.5	55.0	53.6	52.2	50.9	10.4 m/47.8	10.0
12.0	44.3	45.7	45.6	45.4	45.2	45.2	45.1	44.9	44.1	43.0	42.0	41.0	12.0
14.0	33.5	37.1	37.0	36.8	36.6	36.5	36.5	36.3	36.2	36.1	35.6	34.7	14.0
16.0	14.8 m/29.3	30.0	31.0	30.8	30.6	30.5	30.4	30.2	30.1	30.0	29.9	29.8	16.0
18.0		17.5 m/24.8	26.6	26.4	26.2	26.1	26.0	25.8	25.7	25.6	25.4	25.3	18.0
20.0			21.7	23.0	22.8	22.7	22.6	22.4	22.3	22.2	22.0	21.9	20.0
22.0			20.1 m/21.3	19.9	20.1	20.0	19.9	19.7	19.6	19.5	19.3	19.2	22.0
24.0				22.8 m/18.5	18.0	17.9	17.7	17.5	17.4	17.3	17.1	17.0	24.0
26.0					25.4 m/16.0	16.1	16.0	15.7	15.6	15.5	15.3	15.2	26.0
28.0						14.2	14.5	14.2	14.1	13.9	13.8	13.6	28.0
30.0						28.1 m/14.1	13.2	12.9	12.8	12.7	12.5	12.3	30.0
32.0							30.7 m/12.5	11.8	11.7	11.5	11.4	11.2	32.0
34.0								33.3 m/10.9	10.8	10.6	10.4	10.3	34.0
36.0									9.7	9.8	9.6	9.4	36.0
38.0										8.9	8.8	8.7	38.0
40.0										38.6 m/8.6	8.1	8.0	40.0
42.0											41.2 m/7.5	7.4	42.0
44.0												43.9 m/6.5	44.0
Reeves	10	10	9	8	8	7	6	6	5	5	4	4	Reeves

Boom length Working (m) radius (m)	51.8	54.9	57.9	61.0	64.0	67.1	70.1	73.2	76.2	Boom length (m) Working radius (m)
10.0	10.9 m/44.2	11.4 m/40.1	11.9m/38.4							10.0
12.0	40.0	39.1	38.2	12.5 m/35.8	13.0 m/33.4	13.5 m/26.7				12.0
14.0	33.9	33.2	32.5	31.7	30.9	26.7	14.1 m/26.7	14.6 m/24.4	15.1 m/20.4	14.0
16.0	29.3	28.7	28.1	27.4	26.7	26.3	25.7	22.7	19.4	16.0
18.0	25.2	25.1	24.6	24.0	23.4	23.0	22.5	20.6	17.5	18.0
20.0	21.7	21.6	21.5	21.2	20.7	20.4	19.9	18.8	15.8	20.0
22.0	19.0	18.9	18.8	18.6	18.4	18.1	17.7	17.1	14.3	22.0
24.0	16.8	16.7	16.6	16.4	16.2	16.2	15.8	15.4	13.0	24.0
26.0	15.0	14.9	14.7	14.6	14.4	14.4	14.2	13.8	11.8	26.0
28.0	13.5	13.4	13.2	13.1	12.9	12.8	12.7	12.4	10.7	28.0
30.0	12.2	12.1	11.9	11.7	11.6	11.5	11.4	11.2	9.7	30.0
32.0	11.1	10.9	10.8	10.6	10.4	10.4	10.2	10.0	8.8	32.0
34.0	10.1	10.0	9.8	9.6	9.4	9.4	9.2	9.1	8.0	34.0
36.0	9.2	9.1	8.9	8.8	8.6	8.5	8.4	8.2	7.2	36.0
38.0	8.5	8.4	8.2	8.0	7.8	7.8	7.6	7.4	6.5	38.0
40.0	7.8	7.7	7.5	7.3	7.1	7.1	6.9	6.7	5.8	40.0
42.0	7.2	7.1	6.9	6.7	6.5	6.5	6.3	6.1	5.2	42.0
44.0	6.7	6.5	6.4	6.2	6.0	5.9	5.7	5.5	4.6	44.0
46.0	5.9	6.0	5.9	5.7	5.4	5.3	5.2	4.9	4.0	46.0
48.0	46.5 m/5.7	5.3	5.4	5.2	4.9	4.9	4.7	4.4	3.5	48.0
50.0		49.2 m/4.8	4.7	4.7	4.5	4.4	4.2	4.0	2.9	50.0
52.0			51.8 m/4.1	4.2	4.1	4.0	3.8	3.6	2.4	52.0
54.0				3.6	3.6	3.5	3.4	3.2		54.0
56.0				54.4 m/3.4	3.0	3.1	3.0	2.8		56.0
58.0					57.1m/2.8	2.6	2.5	2.4		58.0
60.0						59.7 m/2.2	2.1			60.0
Reeves	4	3	3	3	3	2	2	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.

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Auxiliary Sheave Lifting Capacity for Crane Boom (With 70 t Main Hook) Counterweight: 53.0

Unit: metric ton

Counterweight: 53.0 t, Carbody weight: 10.0 t

Boom length Working (m) radius (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	Boom length (m) Working radius (m)
5.0	5.5 m/27.0												5.0
6.0	27.0	6.1 m/27.0	6.6 m/27.0										6.0
7.0	27.0	27.0	27.0	7.1 m/27.0	7.7 m/27.0								7.0
8.0	27.0	27.0	27.0	27.0	27.0	8.2 m/27.0	8.7 m/27.0						8.0
9.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	9.2 m/27.0	9.8 m/27.0				9.0
10.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	10.3 m/27.0	10.8 m/27.0		10.0
12.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	11.4 m/27.0	12.0
14.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	14.0
16.0	14.8 m/27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	16.0
18.0		17.5 m /23.3	25.1	24.9	24.7	24.6	24.5	24.3	24.2	24.1	23.9	23.8	18.0
20.0			20.2	21.5	21.3	21.2	21.1	20.9	20.8	20.7	20.5	20.4	20.0
22.0			20.1 m/19.8	18.4	18.6	18.5	18.4	18.2	18.1	18.0	17.8	17.7	22.0
24.0				22.8 m/17.0	16.5	16.4	16.2	16.0	15.9	15.8	15.6	15.5	24.0
26.0					25.4 m/14.5	14.6	14.5	14.2	14.1	14.0	13.8	13.7	26.0
28.0						12.7	13.0	12.7	12.6	12.4	12.3	12.1	28.0
30.0						28.1 m/12.6	11.7	11.4	11.3	11.2	11.0	10.8	30.0
32.0							30.7 m/11.0	10.3	10.2	10.0	9.9	9.7	32.0
34.0								33.3 m/9.4	9.3	9.1	8.9	8.8	34.0
36.0									8.2	8.3	8.1	7.9	36.0
38.0										7.4	7.3	7.2	38.0
40.0										38.6 m/7.1	6.6	6.5	40.0
42.0											41.2 m/6.0	5.9	42.0
44.0												43.9 m/5.0	44.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

Boom length Working (m) radius (m)	51.8	54.9	57.9	61.0	64.0	67.1	70.1		Boom length (m) Working radius (m)
12.0	11.9 m/27.0	12.4 m/27.0	12.9 m/27.0	13.5 m/27.0					12.0
14.0	27.0	27.0	27.0	27.0	27.0	14.5 m/25.2	15.1 m/25.2	15.6 m/22.9	14.0
16.0	27.0	27.0	26.6	25.9	25.2	24.8	24.2	21.2	16.0
18.0	23.7	23.6	23.1	22.5	21.9	21.5	21.0	19.1	18.0
20.0	20.2	20.1	20.0	19.7	19.2	18.9	18.4	17.3	20.0
22.0	17.5	17.4	17.3	17.1	16.9	16.6	16.2	15.6	22.0
24.0	15.3	15.2	15.1	14.9	14.7	14.7	14.3	13.9	24.0
26.0	13.5	13.4	13.2	13.1	12.9	12.9	12.7	12.3	26.0
28.0	12.0	11.9	11.7	11.6	11.4	11.3	11.2	10.9	28.0
30.0	10.7	10.6	10.4	10.2	10.1	10.0	9.9	9.7	30.0
32.0	9.6	9.4	9.3	9.1	8.9	8.9	8.7	8.5	32.0
34.0	8.6	8.5	8.3	8.1	7.9	7.9	7.7	7.6	34.0
36.0	7.7	7.6	7.4	7.3	7.1	7.0	6.9	6.7	36.0
38.0	7.0	6.9	6.7	6.5	6.3	6.3	6.1	5.9	38.0
40.0	6.3	6.2	6.0	5.8	5.6	5.6	5.4	5.2	40.0
42.0	5.7	5.6	5.4	5.2	5.0	5.0	4.8	4.6	42.0
44.0	5.2	5.0	4.9	4.7	4.5	4.4	4.2	4.0	44.0
46.0	4.4	4.5	4.4	4.2	3.9	3.8	3.7	3.4	46.0
48.0	46.5 m/4.2	3.8	3.9	3.7	3.4	3.4	3.2	2.9	48.0
50.0		49.2 m/3.3	3.2	3.2	3.0	2.9	2.7	2.5	50.0
52.0			51.8 m/2.6	2.7	2.6	2.5	2.3	2.1	52.0
54.0				2.1	2.1	2.0			54.0
Reeves	2	2	2	2	2	2	2	2	Reeves

H I R E

CRANE

JOHNSON

G.H.

Ratings according to EN13000.

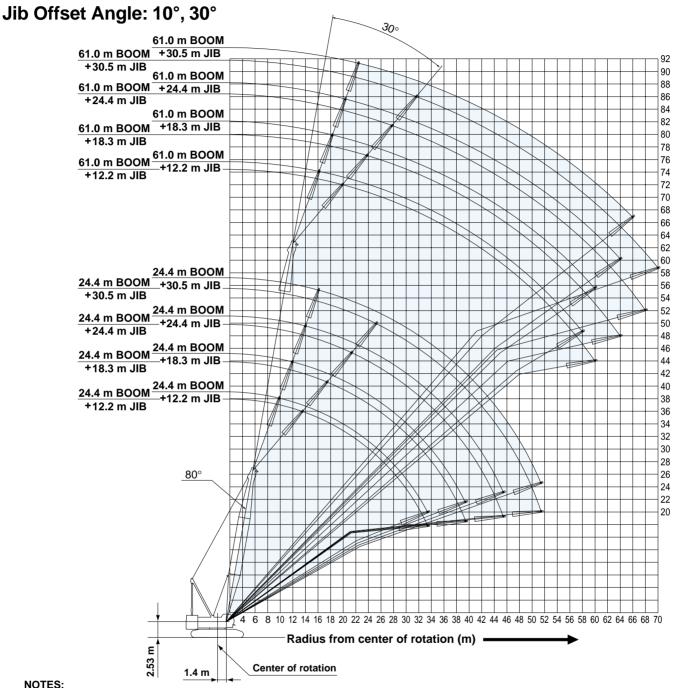
Ratings shown in are determined by the strength of the boom or other structural components.

Refer to notes P12.

Height above ground (m)

JOHNSON CRANE

Fixed Jib Working Ranges



- 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. Gantry must be in raised position for all conditions.
- 10. The boom should be erected over the front of crawlers, not laterally.
- 11. Boom backstops are required for all boom lengths.
- are determined by the strength of the boom 12. Ratings shown in or other structural component.
- 13. When erecting or lowering the boom length 73.2 m or over, the pillow plate must placed at the end of crawlers.
- 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 fixed jib mounting are 24.4 m to 61.0 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: 53.0 t, Carbody weight: 10.0 t

Boon	n length (m)		24	.4			33	.5			42	2.7			51	.8		Boom lengt	n (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)
	9.0	9.9 m/26.8																9.0	П
	10.0	26.8				11.5 m/26.8												10.0	
	12.0	26.7	19.2			26.8	13.5 m/19.2			13.0 m/26.8								12.0	
	14.0	25.8	18.9	14.3 m/9.9		26.8	19.1	15.9 m/9.9		26.8	15.1 m/19.2			14.6 m/26.8				14.0	
	16.0	24.9	18.3	9.7	16.4 m/5.9	26.0	18.8	9.9		26.8	19.1	17.5 m/9.9		26.8	16.7 m/19.1			16.0	
	18.0	24.1	17.7	9.5	5.8	25.3	18.4	9.7	5.9	26.0	18.8	9.8	19.6 m/5.9	25.6	19.0	19.1 m/9.9		18.0	
	20.0	22.9	16.8	9.2	5.6	23.0	17.9	9.5	5.7	22.5	18.4	9.7	5.9	22.1	18.8	9.8	21.2 m/5.9	20.0	
	22.0	20.8	15.2	8.8	5.3	20.3	17.4	9.3	5.6	19.8	18.0	9.5	5.7	19.3	18.4	9.6	5.8	22.0	
اڃا	24.0	18.6	13.9	8.4	5.0	18.1	16.4	9.0	5.4	17.6	17.6	9.4	5.6	17.1	17.4	9.5	5.7	24.0	<
Working radius (m)	26.0	16.8	12.8	8.0	4.8	16.2	15.1	8.6	5.1	15.7	16.0	9.1	5.5	15.2	15.5	9.4	5.6	26.0	Working
adin	28.0	15.2	11.9	7.7	4.5	14.7	14.0	8.3	4.9	14.2	14.4	8.8	5.2	13.7	13.9	9.2	5.5	28.0	ing
ng	30.0	13.9	11.1	7.4	4.3	13.4	13.1	8.0	4.7	12.9	13.1	8.5	5.0	12.4	12.6	8.9	5.3	30.0	adic
ş	34.0	11.2	9.7	6.9	4.0	11.3	11.5	7.5	4.3	10.7	10.9	8.0	4.7	10.2	10.4	8.4	4.9	34.0	radius (m)
	38.0		8.7	6.5	3.7	9.7	9.8	7.1	4.0	9.1	9.3	7.6	4.3	8.6	8.8	8.0	4.6	38.0	ے
	42.0		40.0 m/8.3	6.2	3.4	7.8	8.5	6.7	3.8	7.8	8.0	7.2	4.1	7.3	7.5	7.6	4.3	42.0	
	46.0			6.0	3.2		7.3	6.4	3.5	6.7	6.9	6.8	3.8	6.2	6.4	6.7	4.1	46.0	
	50.0				3.1		48.0 m/6.4	6.1	3.3	5.2	6.0	6.3	3.6	5.2	5.5	5.8	3.9	50.0	
	54.0							5.4	3.2		4.9	5.5	3.4	4.1	4.6	5.0	3.7	54.0	
	58.0								3.0		56.0 m/4.3	4.6	3.3	3.1	3.7	4.3	3.5	58.0	
	62.0								60.0 m/2.9			60.0 m/4.1	3.1		2.9	3.5	3.3	62.0	
	66.0												3.0		64.0 m/2.4	2.8	3.1	66.0	
	70.0															68.0 m/2.4	2.4	70.0	
	Reeves	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	Reeves	

Boo	m length (m)		57	'.9			Boom length (m)				
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length	(m)
	14.0	15.7 m/24.0								14.0	
	16.0	24.0	17.8 m/19.1			16.2 m/21.2				16.0	
	18.0	23.5	19.1			20.7	18.3 m/19.1			18.0	
	20.0	21.7	18.9	20.1 m/9.9		20.3	18.9	20.7 m/9.9		20.0	
	22.0	19.0	18.7	9.7	22.2 m/5.9	18.7	18.7	9.8	22.8 m/5.9	22.0	
	24.0	16.7	17.0	9.6	5.8	16.6	16.7	9.6	5.8	24.0	
	26.0	14.9	15.2	9.5	5.7	14.8	14.9	9.5	5.7	26.0	
	28.0	13.3	13.6	9.3	5.6	13.2	13.4	9.4	5.6	28.0	
ſΞ	30.0	12.0	12.2	9.2	5.5	11.9	12.1	9.3	5.5	30.0	×
Working radius (m)	34.0	9.8	10.1	8.7	5.1	9.7	10.0	8.8	5.2	34.0	Working radius
rad	38.0	8.2	8.4	8.2	4.8	8.1	8.3	8.4	4.9	38.0	gra
king	42.0	6.9	7.1	7.4	4.5	6.7	7.0	7.3	4.6	42.0	dius
Wor	46.0	5.8	6.0	6.3	4.2	5.6	5.9	6.2	4.3	46.0	3
	50.0	4.8	5.1	5.4	4.0	4.6	4.9	5.3	4.1	50.0	
	54.0	3.8	4.2	4.7	3.8	3.7	4.0	4.5	3.9	54.0	
	58.0	2.9	3.4	3.9	3.6	2.8	3.2	3.7	3.7	58.0	
	62.0	2.1	2.6	3.2	3.3	2.1	2.5	3.0	3.1	62.0	
	66.0		64.0 m/2.3	2.5	2.7		64.0 m/2.1	2.3	2.5	66.0	
	70.0			68.0 m/2.2	2.1			68.0 m/2.0	68.0 m/2.2	70.0	
	Reeves	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 structual 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.

Unit: metric ton

JOHNSON CRANE

HIRE LTD.

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Jib Offset Angle: 30°

Counterweight:	53.0 t,	Carbody	weight:	10.01

Воо	m length (m)		24	1.4			33	3.5			42	2.7			51	.8		Boom lengt	h (m
Jit	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)
	12.0	13.5 m/18.2																12.0	
	14.0	17.8				15.1 m/18.2												14.0	
	16.0	16.4	17.5 m/12.4			17.7				16.7 m/18.2								16.0	
	18.0	15.2	12.1			16.5	19.0 m/12.5			17.5				18.3 m/18.2				18.0	
	20.0	14.3	11.2	21.4 m/7.4		15.6	12.1			16.6	20.6 m/12.5			17.4				20.0	
	22.0	13.4	10.5	7.4		14.7	11.3	23.0 m/7.5		15.8	12.0			16.7	22.2 m/12.5			22.0	
	24.0	12.7	9.8	7.2	25.3 m/4.1	14.0	10.7	7.4		15.1	11.4	24.5 m/7.5		15.9	11.9			24.0	
	26.0	12.1	9.2	7.0	4.0	13.4	10.1	7.2	26.9 m/4.1	14.4	10.8	7.4		15.3	11.4	26.1 m/7.5		26.0	
	28.0	11.6	8.8	6.8	3.8	12.8	9.6	7.0	4.0	13.8	10.3	7.2	28.5 m/4.0	14.2	10.9	7.3		28.0	
s (m)	30.0	11.1	8.3	6.5	3.7	12.3	9.2	6.8	3.8	13.2	9.9	7.0	3.9	12.8	10.5	7.2	30.1 m/4.0	30.0	Š
radius	34.0	10.5	7.6	5.9	3.5	11.5	8.4	6.4	3.6	11.0	9.1	6.8	3.7	10.6	9.7	6.9	3.8	34.0	Working radius (III)
ng ra	38.0		7.1	5.4	3.3	9.8	7.8	5.9	3.4	9.3	8.5	6.3	3.6	8.9	9.1	6.7	3.7	38.0	a
Working	42.0		40.0 m/7.0	5.0	3.1	8.2	7.4	5.5	3.3	8.0	8.0	5.9	3.4	7.5	8.0	6.3	3.5	42.0	10
>	46.0			4.8	3.0		7.0	5.2	3.1	6.9	7.2	5.6	3.3	6.4	6.8	5.9	3.4	46.0	3
	50.0				2.9		48.0 m/6.9	4.9	3.0	5.4	6.3	5.3	3.1	5.5	5.9	5.6	3.2	50.0	
	54.0				52.0 m/2.9			4.7	2.9		5.4	5.0	3.0	4.4	5.1	5.3	3.1	54.0	
	58.0								2.9		56.0 m/4.7	4.8	3.0	3.3	4.2	4.6	3.1	58.0	
	62.0								60.0 m/2.9			4.0	2.9		3.3	3.9	3.0	62.0	
	66.0												2.9		64.0 m/2.8	3.1	2.9	66.0	
	70.0												68.0 m/2.9			2.3	2.9	70.0	
	74.0																2.2	74.0	
	Reeves	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	Reeves	1

Boom length (m)			57	'.9			Boom length (m)				
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length	(m)
	18.0	19.4 m/18.1				19.9 m/18.1				18.0	
	20.0	17.9				18.1				20.0	
	22.0	17.1	23.3 m/12.5			17.3	23.8 m/12.4			22.0	
	24.0	16.4	12.3			16.7	12.4			24.0	
	26.0	15.5	11.7	27.2 m/7.5		15.3	11.9	27.7 m/7.5		26.0	
	28.0	13.9	11.3	7.4		13.8	11.4	7.5		28.0	
	30.0	12.5	10.8	7.3	31.1 m/4.0	12.4	11.0	7.3	31.6 m/4.0	30.0	
	34.0	10.2	10.1	7.0	3.9	10.1	10.2	7.1	3.9	34.0	
Ê	38.0	8.5	9.1	6.8	3.7	8.4	9.0	6.8	3.7	38.0	8
ns (42.0	7.1	7.7	6.5	3.6	7.0	7.6	6.6	3.6	42.0	훍
rad	46.0	6.0	6.5	6.1	3.4	5.9	6.4	6.2	3.5	46.0	gra
Working radius (m)	50.0	5.1	5.6	5.8	3.3	4.9	5.4	5.8	3.3	50.0	Working radius
Worl	54.0	4.1	4.7	5.0	3.2	3.9	4.6	4.9	3.2	54.0	(E)
_	58.0	3.2	3.9	4.3	3.1	3.1	3.8	4.2	3.1	58.0	
	62.0	2.3	3.1	3.6	3.0	2.2	3.0	3.4	3.1	62.0	
	66.0		2.3	2.9	3.0		2.3	2.7	3.0	66.0	
	70.0			2.2	2.6			2.1	2.4	70.0	
	74.0				72.0 m/2.3				72.0 m/2.2	74.0	
	Reeves	2	1	1	2	1	1	1	1	Reeves	

Ratings according to EN13000.

Ratings shown in _____ are determined by the strength of the

boom or other structual components.

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PARTS AND ATTACHMENTS

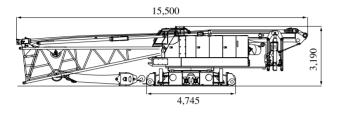
Dimensions: mm Weight: kg

Base Machine

With trans-lifter, 70 t hook, main and aux. winches (non-free fall) including wire rope, self removal device

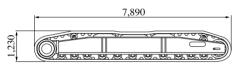
Weight: 39,700 kg*1 Width: 3,200 mm

*1: With free-fall main and auxiliary winches, total weight increases by 790 kg.

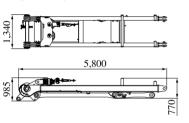


Crawler

Weight: 14,500kg Width: 910 mm

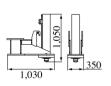


Gantry (with lower spreader)



Translifter

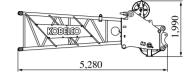
Weight: 370kg / 1 piece



Boom Top

Weight: 1,880kg (with guy cables)

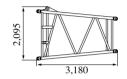




Tapered Insert Boom

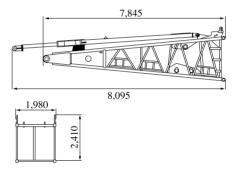
Weight: 490kg



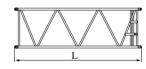


Boom Base (with boom backstop)

Weight: 3,680kg



Insert Boom



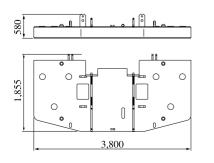


L (mm)	Weight (kg)*				
3,180	630				
6,230	1,000				
9,270	1,360				
	3,180 6,230				

with guy cables

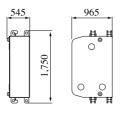
Counterweight A

Weight: 8,000kg



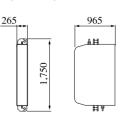
Counterweight B

Weight: 5,000kg x 8 pieces



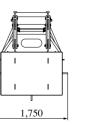
Counterweight C

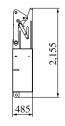
Weight: 2,500kg x 2 pieces



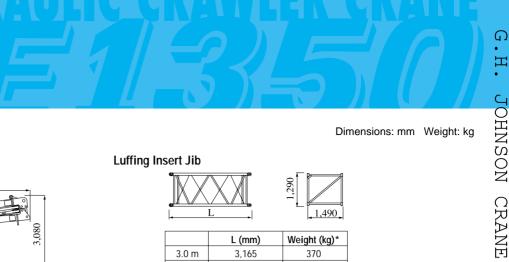
Carbodyweight

Weight: 5,000kg x 2 pieces





 \Box



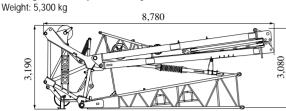
Dimensions: mm Weight: kg

HIRE

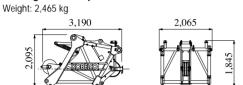
LTD.

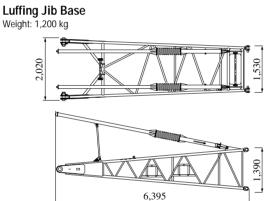
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Luffing Boom Top Assembly



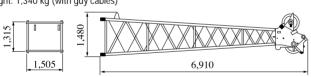
Luffing Boom Top



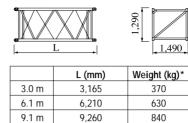


Luffing Jib Top

Weight: 1,340 kg (with guy cables)

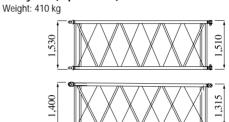


Luffing Insert Jib



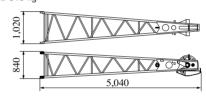
with guy cables

Relay Jib (tapered Jib)



Jib Top (For Crane)

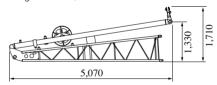
Weight: 315 kg



4,400

Jib Base with Strut (For Crane)

Weight: 510 kg Width: 1,040 mm



Other Attachments

Attachments	Weight	Dimensions (L x W x H)
9.1 m special insert boom for luffing	2,310 kg (with guy cables)	9,270 mm x 1,980 mm x 2,595 mm
3.0 m insert jib (for crane)	110 kg	3,130 mm x 840 mm x 1,020 mm
6.1 m insert jib (for crane)	190 kg	6,175 mm x 840 mm x 1,020 mm
Jib strut (for luffing)	2,010 kg	6,945 mm x 2,080 mm x 1,150 mm
Auxiliary sheave (for luffing)	380 kg	1,012 mm x 895 mm
Auxiliary sheave (for crane)	295 kg	725 mm x 2,030 mm
Rear guide roller	380 kg	2,880 mm x 1,100 mm x 1,090 mm
Boom upper spreader	485 kg	2,045 mm x 365 mm x 880 mm
Boom lower spreader	320 kg	1,150 mm x 255 mm x 910 mm
Jib upper spreader (for luffing)	260 kg	925 mm x 605 mm x 1,200 mm
Jib lower spreader (for luffing)	405 kg	1,940 mm x 460 mm x 1,070 mm
135 t hook block	1,700 kg	710 mm x 700 mm x 1,975 mm
70 t hook block	1,200 kg	470 mm x 700 mm x 1,825 mm
35 t hook block	900 kg	365 mm x 700 mm x 1,575 mm
Ball hook	450 kg	380 mm dia x 1,200 mm
Swivel hook	100 kg	300 mm x 160 mm dia. x 950 mm
Self removal device	1,680 kg	1,050 mm x 1,760 mm x 2,180 mm
Backstop (1 piece)	460 kg	6,985 mm x 275 mm

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Standard Equipment

Upper structure/Lower structure

Counterweight: 53.0 ton (total weight) Carbody weight: 10.0 ton (total weight)

910 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

Variable main/aux. hoist speed controller Swing neutral-free/brake select switch

Side deck for cab 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)

Upper spreader storage guide

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 (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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