

Hydraulic Crawler Crane

CKE

EU Stage V
Engine

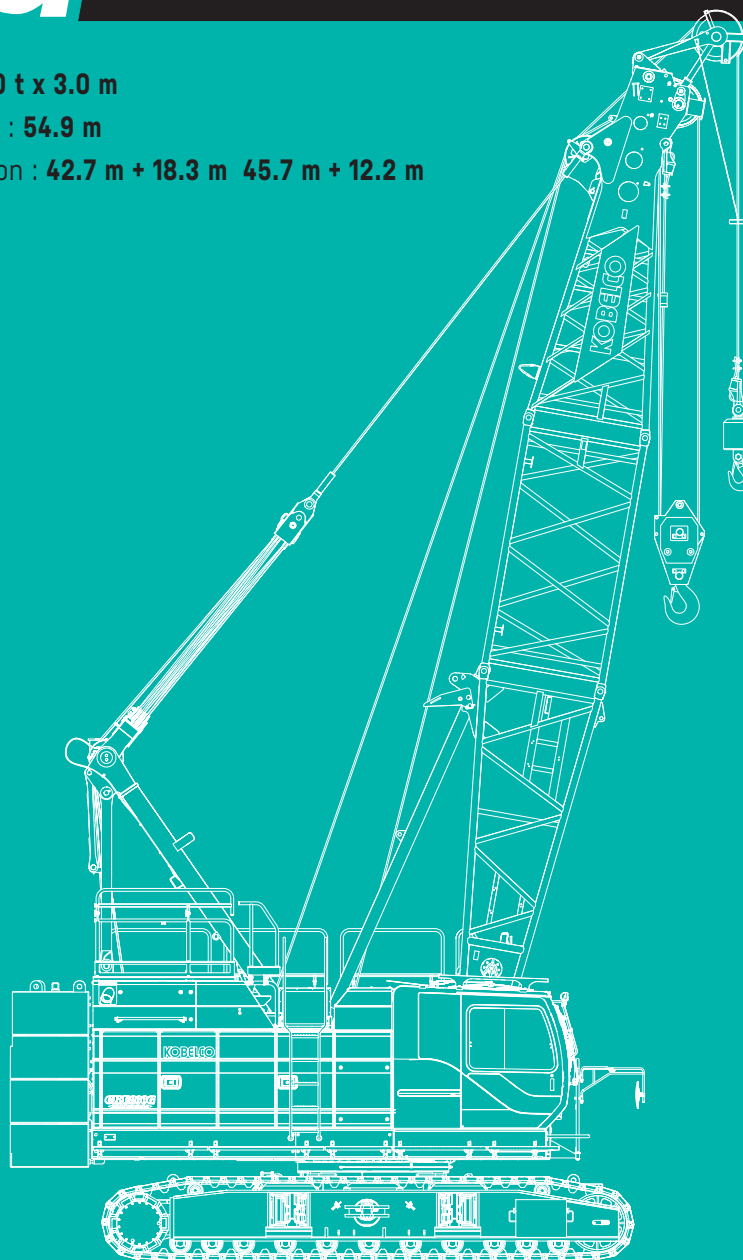
800G

Model : CKE800G-3

Max. Lifting Capacity : **80 t x 3.0 m**

Max. Crane Boom Length : **54.9 m**

Max. Fixed Jib Combination : **42.7 m + 18.3 m 45.7 m + 12.2 m**



KOBELCO

CONFIGURATION

Fixed Jib

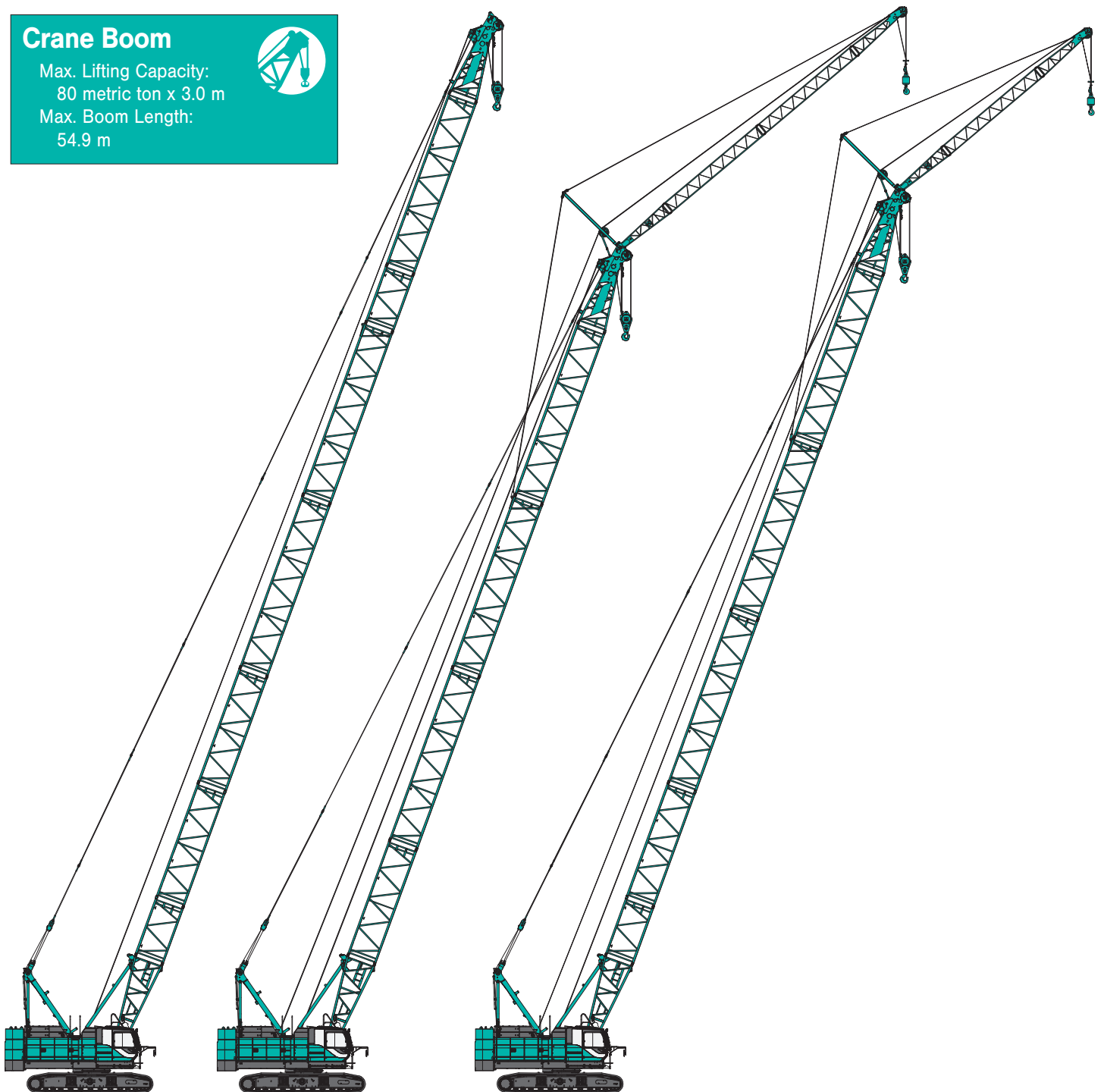
Max. Lifting Capacity:
7.0 metric ton x 20.0 m

Max. Combination:
42.7 m + 18.3 m 45.7 m + 12.2 m



Crane Boom

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



CKE800G-3 CONTENTS

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

SPECIFICATIONS



Power Plant

Model: HINO J08E-YD

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

Complies with NRMM (Europe) Stage V

Displacement: 7.684 L

Rated power: 213 kW/2,100 min⁻¹

Max. Torque: 1,017 N·m/1,600 min⁻¹

Cooling System: Water-cooled

Starter: 24V-5kW

Radiator: Corrugated type core, thermostatically controlled

Air cleaner: Dry type with replaceable paper element

Throttle: Electrically controlled, in conjunction with floor mounted pedal

Fuel filter: Replaceable paper element

Batteries: Two 12V x 136 Ah/5HR capacity, series connected

Fuel tank capacity: 400 L

AdBlue® tank usable volume: 30 L



Hydraulic System

Main pumps: 3 variable displacement piston pumps

Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.

Cooling: Oil-to-air heat exchanger (plate-fin type)

Filtration: Full-flow and bypass type with replaceable element

Max. relief valve pressure:

Load hoist, boom hoist and propel system: 31.9 MPa

Swing system: 27.5 MPa

Control system: 5.4 MPa

Oil Quantity (at the reference level): 375 L



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.

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

Drum Lock: External ratchet for locking drum

Drum: Single drum, grooved for 16mm dia. wire rope

Line Speed: Single line on first drum layer

Hoisting/Lowering: 70 to 2 m/min

Boom hoisting/lowering: 16 mm x 150 m (5/8 in. x 492 ft)

Boom guy line: 30 mm (1-3/16 in.)

Boom backstops: Required for all boom length



Load Hoisting System

Front and rear drums for load hoist powered by hydraulic variable plunger motors, driven through planetary reducers.

Negative Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional)

Drum Lock: External ratchet for locking drum

Drums:

Front 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 335m storage length.

Diameter of wire rope

Main winch: 22 mm x 220 m

Aux. winch: 22 mm x 130 m

Third winch: 22 mm x 145 m

Line Speed*:

Hoisting/lowering: 120 to 3 m/min

Line Pull:

Max. Line Pull:** 153 kN {15.5 tf}

(Referential performance)

Rated Line Pull: 78 kN {8.0 tf}

*Single line on first drum layer

**Max. line pull is not based on wire rope strength



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducer, the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation

Swing Speed: 4.0 min⁻¹



Upper Structure

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

Counterweight: 27.2 ton



Cab & Control

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

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, and shoe tray



Lower Structure

Steel-welded carbody with axles. Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Carbody weight: 6.5 ton

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoe (flat): 800 mm wide each crawler

Max. gradeability: 40%



Weight

Including upper and lower machine, 27.2 ton counterweight and 6.5 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 75.7 ton

Ground pressure: 84.8 kPa



Attachment

Boom & Jib:

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

Boom and Jib length

	Min. Length (Min. combination)	Max. Length (Max. combination)
Crane Boom	9.1 m	54.9 m
Fixed Jib	30.5 m + 6.1 m	42.7 m + 18.3 m, 45.7 m + 12.2 m

Main Specifications (Model: CKE800G-3)

Crane Boom	
Max. Lifting Capacity	80 t x 3.0 m
Max. Length	54.9 m
Fixed Jib	
Max. Lifting Capacity	7.0 t x 20.0 m
Max. Combination	42.7 m + 18.3 m, 45.7 m + 12.2 m
Main & Aux. Winch	
Max. Line Speed (1st layer)	120 m/min
Rated Line Pull (Single line)	78 kN {8.0 tf}
Wire Rope Diameter	22 mm
Wire Rope Length	220 m (Main), 130 m (Aux.)
Brake Type (Free fall)	Wet-type multiple disc brake (Optional)
Working Speed	
Swing Speed	4.0 min ⁻¹ {rpm}
Travel Speed	1.7/1.1 km/h
Power Plant	
Model	HINO J08E-YD
Engine Output	213 kW/2,100 min ⁻¹
Fuel Tank	400 L
AdBlue [®] Tank Usable Volume	30 L

Hydraulic System	
Main Pumps	3 variable displacement
Max. Pressure	31.9 MPa {325 kg/cm ² }
Oil Quantity (at the reference level)	375 L
Self-Removal Device	
	Counterweight/self-removal device (option)
Weight	
Operating Weight	75.7 t * ¹
Ground Pressure	84.8 kPa
Counterweight	27,200 kg
Transport Weight	39,780 kg * ²

Units are SI units. { } indicates conventional units.

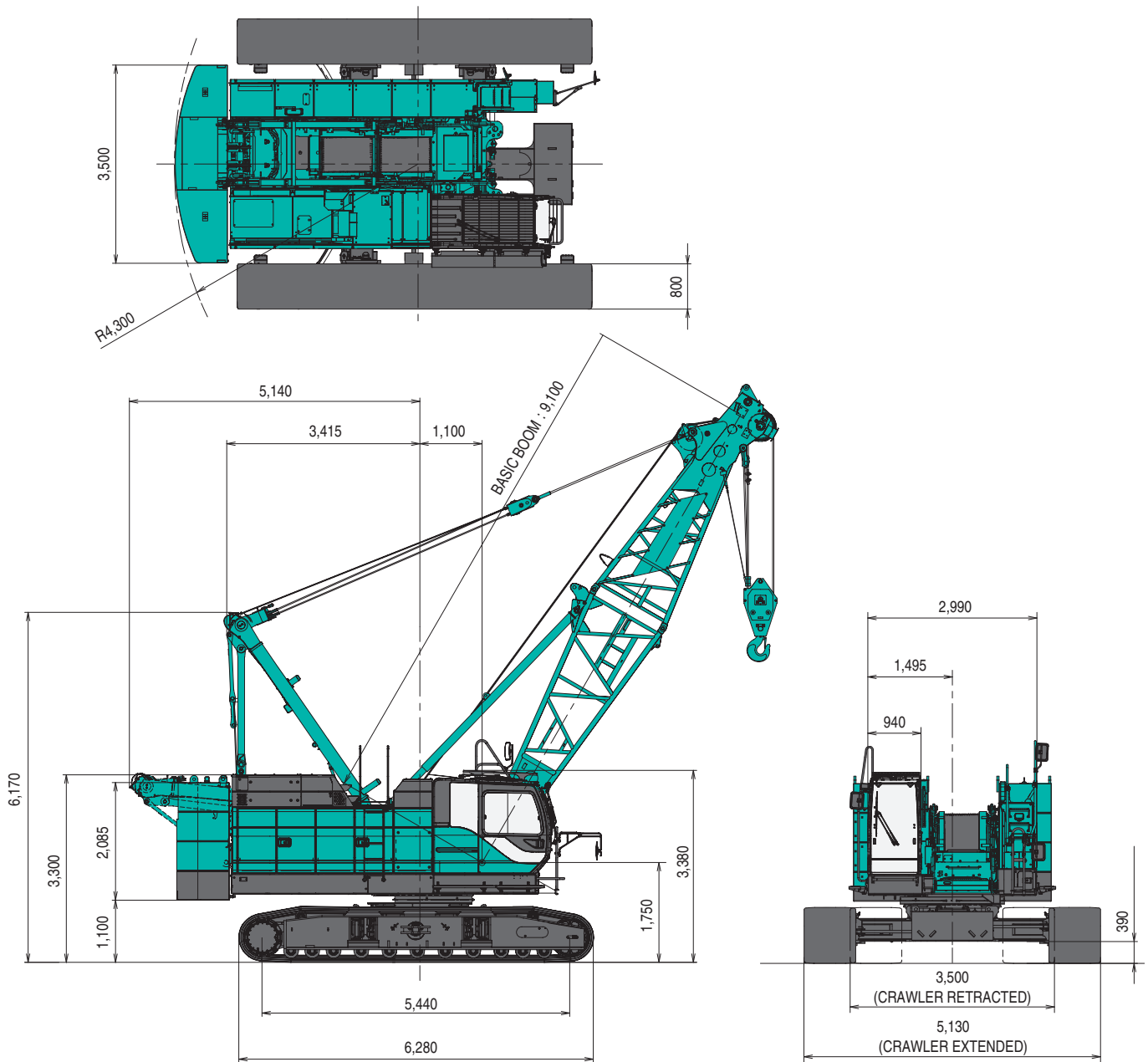
Line speeds in table are for light loads. Line speed varies with load.

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

*² Base machine with boom base, gantry, crawlers, and wire ropes (front/rear/boom drum)

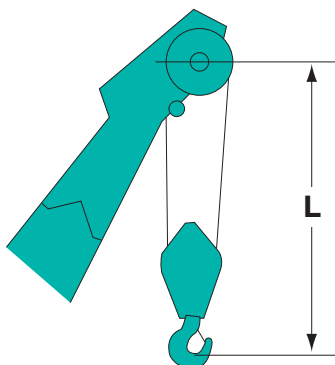
GENERAL DIMENSIONS

(Unit: mm)

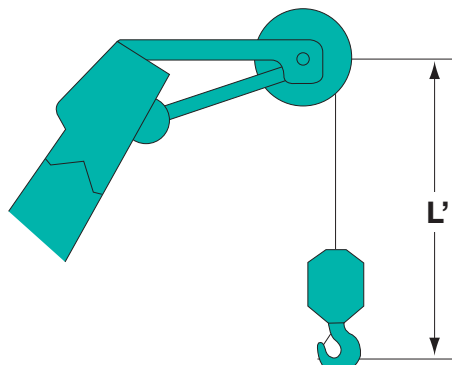


This catalog may contain photographs of machines with specifications, attachments and optional equipment.

Limit of Hook Lifting



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



Hook	L'
Ball hook	3.1 m

BOOM AND JIB ARRANGEMENTS

Crane Boom Arrangements

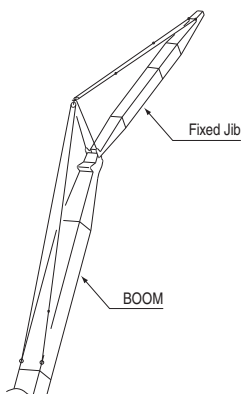
Boom length m (ft)	Boom arrangement
9.1 (30)	
12.2 (40)	※
15.2 (50)	※
18.3 (60)	※
21.3 (70)	
24.4 (80)	※
27.4 (90)	※
30.5 (100)	※
33.5 (110)	※
36.6 (120)	※

Boom length m (ft)	Boom arrangement
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 Tip
	3.0 m	Boom Insert
	6.1 m	Boom Insert
	6.1 m	Boom Insert (with lug)
	9.1 m	Boom Insert
	9.1 m	Boom Insert (with lug)

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

Fixed Jib Arrangements

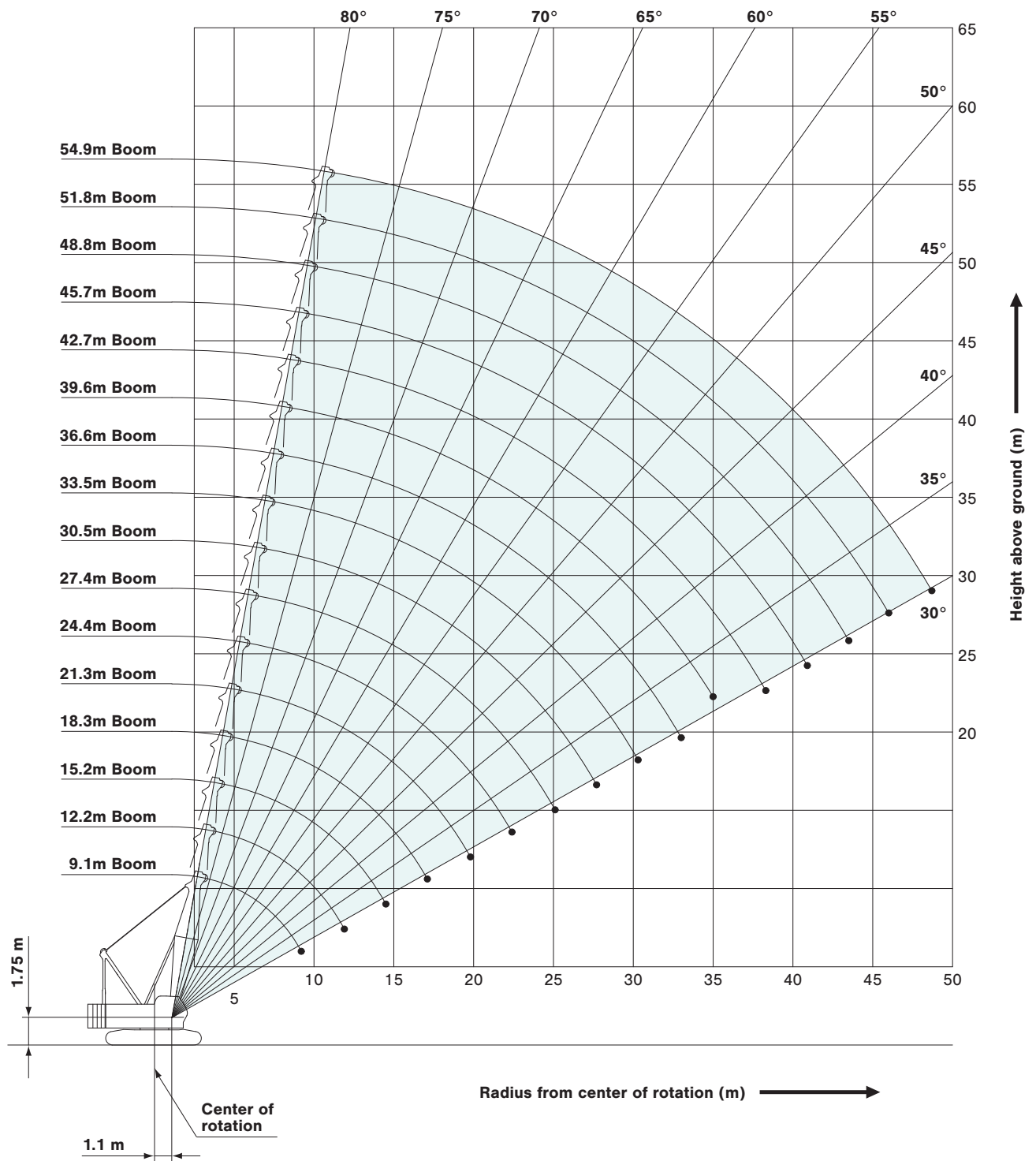


Crane boom length	Jib length m (ft)	Jib arrangement
30.5 m to 45.7 m	6.1 (20)	
	12.2 (40)	
30.5 m to 42.7 m	18.3 (60)	

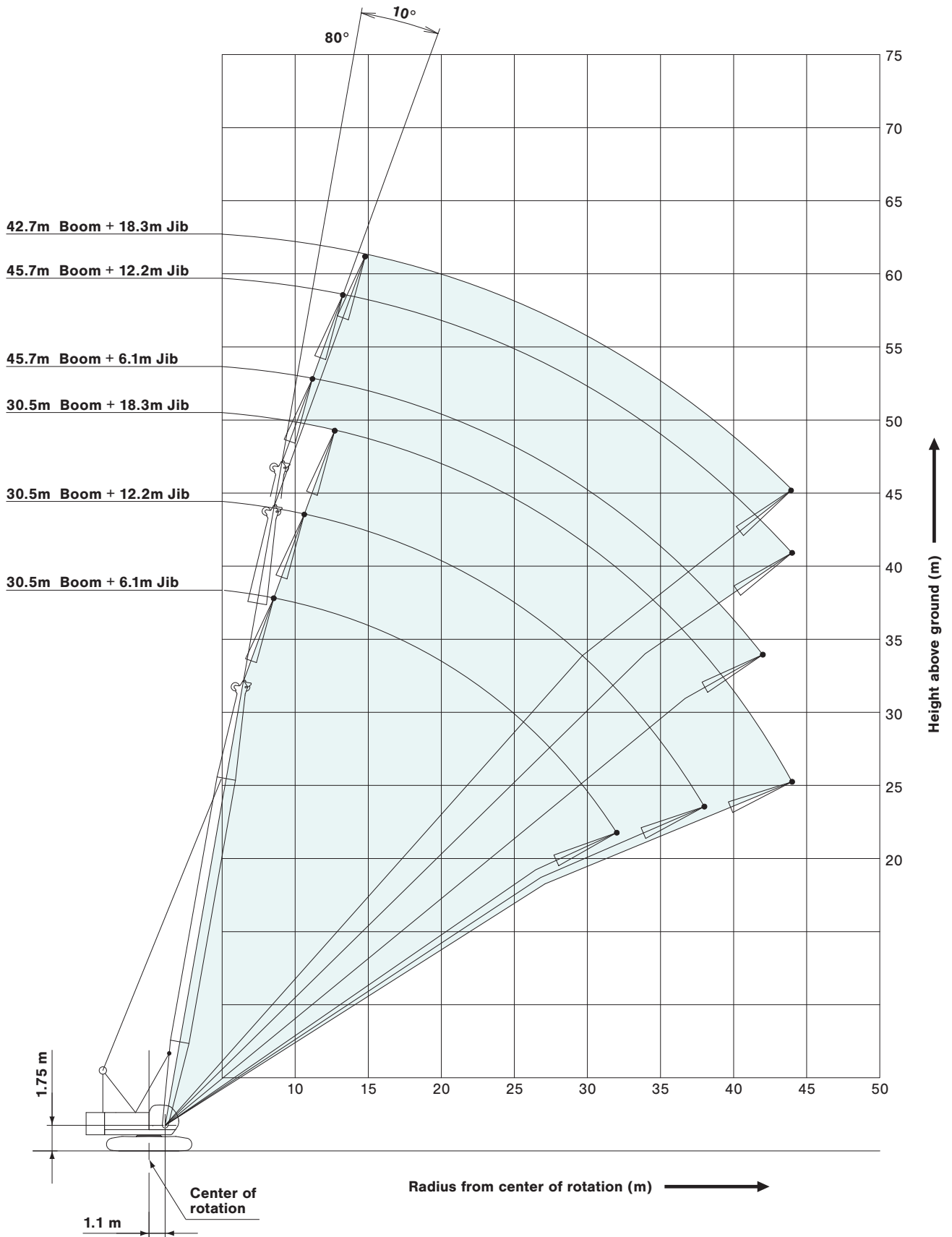
Symbol	Jib Length	Remarks
	3.0 m	Jib Base
	3.0 m	Jib Tip
	6.1 m	Jib Insert

WORKING RANGES

Crane Boom

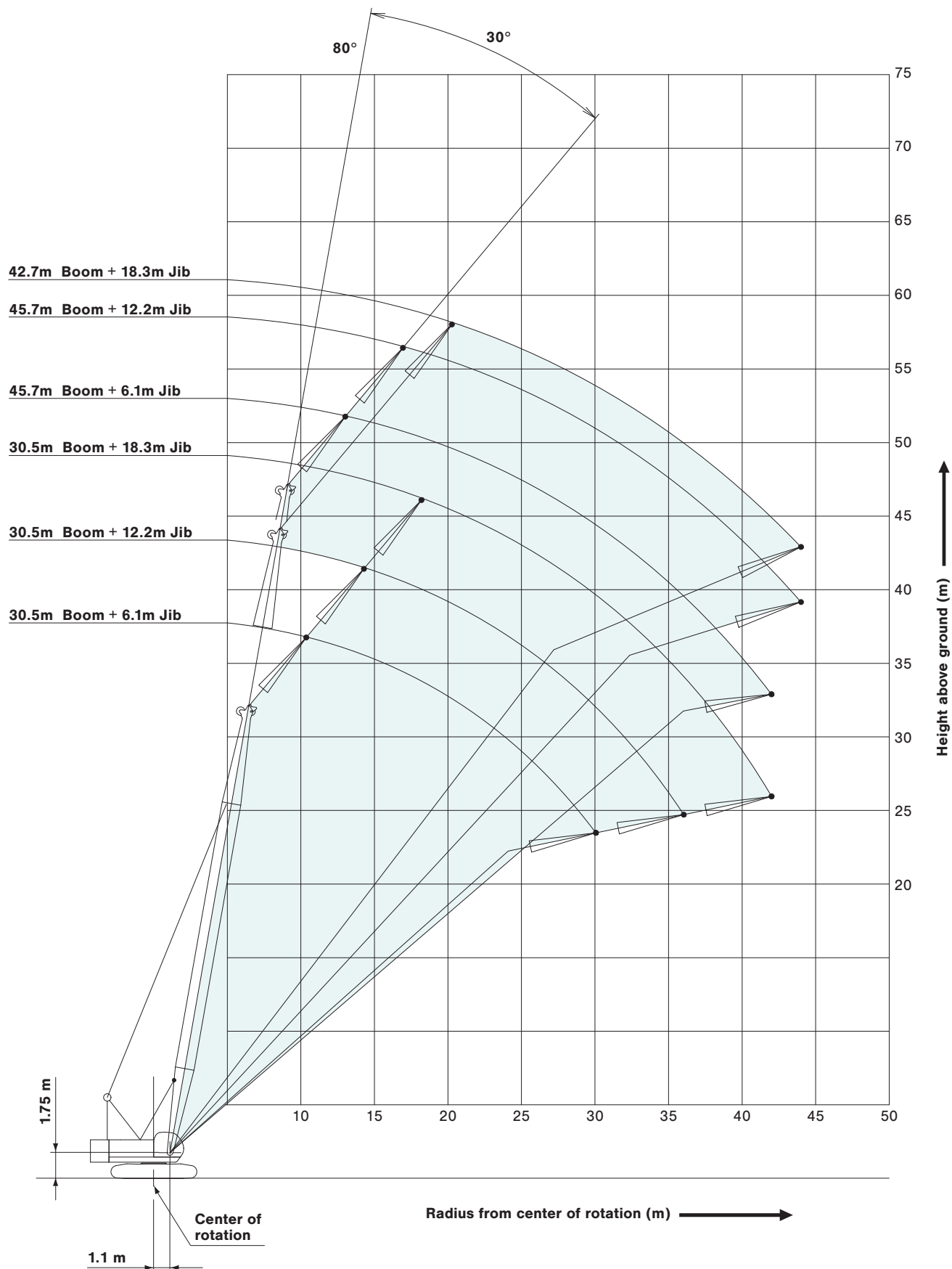


Fixed Jib 10°



WORKING RANGES

Fixed Jib 30°



SUPPLEMENTAL DATA

- Ratings are calculated to comply with EN13000, ISO 4305 and include factors based on a 4 degree tipping angle.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- The weight of hook block, slings, and all other load handling accessories shall be considered part of the lifted load.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment.
The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for the operation on a firm and level surface, up to 1 % gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 parts of line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are based on structural competence.
- The minimum rated load is 1.1 t.
- Crawlers must be fully extended for all crane operations.
- Ratings shown are based on allowable wind speed of 9.8 m/s or less.
The wind speed mentioned here means the instantaneous wind speed.
- Ratings shown are based on allowable travel speed of 0.1 m/s or less.

(Crane boom lifting)

- The total load that can be lifted is the value of the weight of main hook block, slings, and all other load handling accessories deducted from crane boom ratings shown.

(Fixed jib lifting)

- The total load that can be lifted is the value of the weight of jib hook block, slings, and all other load handling accessories deducted from fixed jib ratings shown.
- The availability of fixed jib mounting
 - On crane boom : Range 30.5 m to 45.7 m.
 - But 18.3 m jib is not allowed to install on 45.7 m main boom.

<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	78	157	235	314	392
Maximum Loads (t)	8.0	16.0	24.0	32.0	40.0

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	471	549	628	706	785
Maximum Loads (t)	48.0	56.0	64.0	72.0	80.0

Auxiliary hoist loads

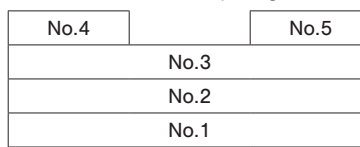
No. of Parts of Line	1
Maximum Loads (kN)	69
Maximum Loads (t)	7.0

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

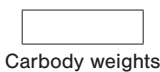
Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Assembling the counterweight (standard type)

27.2 ton counterweight
6.5 ton carbody weight



Counterweights

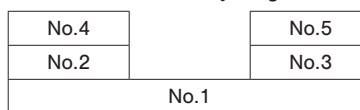


Carbody weights

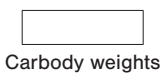
Assembling the counterweight (optional type)

(Equipped with self removal device)

26.1 ton counterweight
6.5 ton carbody weight



Counterweights



Carbody weights

- Although the total weight of the counterweight is different between machine equipped with self-removal device and machine not equipped with self-removal device, the lifting capacity is the same.

LIFTING CAPACITIES



Crane Boom Lifting Capacities

Counterweight: 27.2 t
Carbody Weight: 6.5 t

Unit: metric ton

Working radius (m)	Boom length (m)	9.1	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	Boom length (m)	Working radius (m)
3.0	80.0	3.6m/76.2																3.0	3.0
4.0	69.0	72.6	4.2m/69.6	4.7m/59.3														4.0	4.0
5.0	57.9	57.7	57.5	55.1	5.2m/50.0	5.7m/42.9												5.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	28.0
30.0									4.9	4.8	4.7	4.5	4.4	4.3	4.2	4.1		30.0	30.0
32.0									30.3m/4.9	4.3	4.2	4.0	3.9	3.8	3.7	3.6		32.0	32.0
34.0										33.0m/4.1	3.8	3.6	3.5	3.4	3.3	3.2		34.0	34.0
36.0											35.0m/3.5	3.3	3.2	3.0	2.9	2.8		36.0	36.0
38.0												2.9	2.8	2.7	2.6	2.5		38.0	38.0
40.0												38.3m/2.9	2.6	2.4	2.3	2.2		40.0	40.0
42.0													40.9m/2.4	2.1	2.0	1.9		42.0	42.0
44.0														43.5m/2.0	1.8	1.7		44.0	44.0
46.0															1.6	1.5		46.0	46.0
48.0																	1.3	48.0	48.0
50.0																	48.7m/1.2	50.0	50.0
Reeves	10	10	9	8	7	6	5	5	4	4	3	3	3	3	3	2		Reeves	Reeves

Note:

Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.



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

Counterweight: 27.2 t
Carbody Weight: 6.5 t

Unit: metric ton

Boom length (m)		30.5			33.5			36.6			Boom length (m)	
Jib length (m)		6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)	
Working radius (m)	9.0	7.0			7.0							9.0
	10.0	7.0			7.0			7.0				10.0
	12.0	7.0	7.0	4.5	7.0	7.0		7.0	7.0			12.0
	14.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5		14.0
	16.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5		16.0
	18.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5		18.0
	20.0	6.8	7.0	4.5	6.8	6.9	4.5	6.7	6.9	4.5		20.0
	22.0	6.1	6.4	4.5	6.0	6.2	4.5	5.9	6.2	4.5		22.0
	24.0	5.4	5.6	4.5	5.2	5.5	4.5	5.1	5.4	4.5		24.0
	26.0	4.7	5.0	4.5	4.6	4.8	4.5	4.5	4.8	4.5		26.0
	28.0	4.2	4.4	4.5	4.1	4.3	4.4	4.0	4.2	4.3		28.0
	30.0	3.8	4.0	4.1	3.6	3.8	3.9	3.5	3.7	3.9		30.0
	32.0	3.4	3.6	3.7	3.2	3.4	3.5	3.1	3.3	3.5		32.0
	34.0		3.2	3.3	2.9	3.1	3.2	2.8	3.0	3.1		34.0
	36.0		2.9	3.0	2.6	2.8	2.9	2.5	2.7	2.8		36.0
	38.0		2.6	2.8		2.5	2.6	2.2	2.4	2.5		38.0
	40.0			2.5		2.3	2.4		2.1	2.3		40.0
42.0			2.3		2.0	2.1		1.9	2.0		42.0	
44.0			2.1			1.9		1.6	1.8		44.0	
Reeves	1	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)		39.6			42.7			45.7			Boom length (m)	
Jib length (m)		6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2		Jib length (m)	
Working radius (m)	10.0	7.0										10.0
	12.0	7.0			7.0			7.0				12.0
	14.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0			14.0
	16.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0			16.0
	18.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0			18.0
	20.0	6.6	6.7	4.5	6.6	6.7	4.5	6.5	6.6			20.0
	22.0	5.8	6.0	4.5	5.7	6.0	4.5	5.6	5.8			22.0
	24.0	5.0	5.3	4.5	4.9	5.2	4.5	4.8	5.1			24.0
	26.0	4.4	4.6	4.5	4.3	4.5	4.5	4.2	4.4			26.0
	28.0	3.9	4.1	4.2	3.8	4.0	4.1	3.6	3.9			28.0
	30.0	3.4	3.6	3.7	3.3	3.5	3.6	3.2	3.4			30.0
	32.0	3.0	3.2	3.3	2.9	3.1	3.2	2.7	3.0			32.0
	34.0	2.6	2.9	3.0	2.5	2.8	2.9	2.3	2.6			34.0
	36.0	2.3	2.5	2.7	2.2	2.4	2.6	2.0	2.2			36.0
	38.0	2.0	2.2	2.4	1.8	2.1	2.2	1.6	1.9			38.0
	40.0	1.7	1.9	2.1	1.6	1.8	2.0	1.4	1.6			40.0
	42.0		1.7	1.8	1.3	1.6	1.7	1.1	1.4			42.0
44.0		1.4	1.6	1.1	1.3	1.5		1.1			44.0	
Reeves	1	1	1	1	1	1	1	1	1	1	Reeves	

Note:

Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

LIFTING CAPACITIES



Fixed Jib Lifting Capacities (Jib Offset Angle : 30°)

Counterweight: 27.2 t
Carbody Weight: 6.5 t

Unit: metric ton

Boom length (m)		30.5			33.5			36.6			Boom length (m)
Jib length (m)		6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)
Working radius (m)	12.0	7.0			7.0			7.0			12.0
	14.0	7.0			7.0			7.0			14.0
	16.0	7.0	5.0		7.0	5.0		7.0	5.0		16.0
	18.0	7.0	5.0	3.2	7.0	5.0	3.2	7.0	5.0	3.2	18.0
	20.0	6.9	5.0	3.2	6.8	5.0	3.2	6.8	5.0	3.2	20.0
	22.0	6.2	5.0	3.2	6.1	5.0	3.2	6.1	5.0	3.2	22.0
	24.0	5.5	5.0	3.2	5.4	5.0	3.2	5.3	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	26.0
	28.0	4.3	4.6	3.2	4.2	4.5	3.2	4.1	4.4	3.2	28.0
	30.0	3.8	4.1	3.1	3.7	4.0	3.2	3.6	3.9	3.2	30.0
	32.0		3.7	3.0	3.3	3.6	3.0	3.2	3.5	3.1	32.0
	34.0		3.3	2.8		3.2	2.9	2.9	3.1	3.0	34.0
	36.0		3.0	2.7		2.9	2.8		2.8	2.9	36.0
	38.0			2.6		2.6	2.7		2.5	2.7	38.0
	40.0			2.5			2.5		2.2	2.5	40.0
	42.0			2.4			2.3			2.2	42.0
44.0						2.1			2.0	44.0	
Reeves	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)		39.6			42.7			45.7			Boom length (m)
Jib length (m)		6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	Jib length (m)	
Working radius (m)	12.0	7.0									12.0
	14.0	7.0			7.0			7.0			14.0
	16.0	7.0	5.0		7.0			7.0			16.0
	18.0	7.0	5.0		7.0	5.0		7.0	5.0		18.0
	20.0	6.6	5.0	3.2	6.6	5.0	3.2	6.6	5.0		20.0
	22.0	5.9	5.0	3.2	5.9	5.0	3.2	5.8	5.0		22.0
	24.0	5.2	5.0	3.2	5.1	5.0	3.2	5.0	5.0		24.0
	26.0	4.5	4.9	3.2	4.4	4.8	3.2	4.3	4.7		26.0
	28.0	4.0	4.3	3.2	3.9	4.3	3.2	3.8	4.2		28.0
	30.0	3.5	3.8	3.2	3.4	3.8	3.2	3.3	3.7		30.0
	32.0	3.1	3.4	3.2	3.0	3.3	3.2	2.9	3.2		32.0
	34.0	2.7	3.0	3.1	2.6	3.0	3.2	2.4	2.9		34.0
	36.0	2.3	2.7	2.9	2.2	2.6	2.8	2.1	2.5		36.0
	38.0	2.0	2.4	2.6	1.9	2.3	2.5	1.7	2.1		38.0
	40.0		2.1	2.3	1.6	2.0	2.3	1.4	1.8		40.0
	42.0		1.8	2.1		1.7	2.0	1.2	1.5		42.0
44.0		1.5	1.8		1.4	1.7		1.3		44.0	
Reeves	1	1	1	1	1	1	1	1	1	Reeves	

Note:

Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

SUPPLEMENTAL DATA FOR CLAMSHELL RATING CHART

- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- The weight of bucket, slings and all other load handling accessories shall be considered part of the lifted load.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Rated loads do not exceed 66% of minimum tipping loads.
- Ratings are for the operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 parts of line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Crawlers must be fully extended for all crane operations.

(Clamshell bucket lifting)

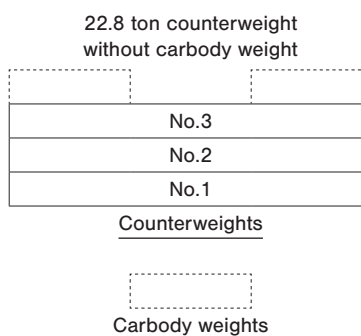
- The total load that can be lifted is the value of the weight of bucket, slings, and all other load handling accessories deducted from main boom ratings shown.
- The weight of bucket and materials must not exceed rated load.
- Optimum bucket should be required according to material. $\text{Bucket capacity (m}^3\text{)} \times \text{specified gravity of material (ton/m}^3\text{)} + \text{bucket weight (ton)} = \text{rated load.}$
- Bucket weight must also be decreased according to operating cycle and bucket lowering height.
- Rated loads are determined by stability and boom strength. During simultaneous operations of boom and swing, rapid acceleration or deceleration must be avoided.
- Do not attempt to cast the bucket while swinging or diagonal draw-cutting.

<Reference Information>

Main hoist loads

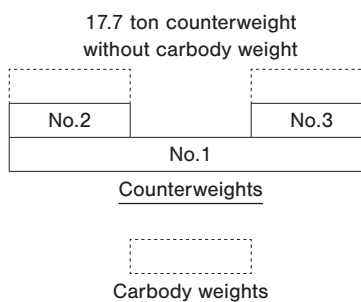
No. of Parts of Line	1
Maximum Loads (kN)	69
Maximum Loads (t)	7.0

Assembling the counterweight (standard type)



Assembling the counterweight (optional type)

(Equipped with self removal device)



- Although the total weight of the counterweight is different between machine equipped with self-removal device and machine not equipped with self-removal device, the lifting capacity is the same.

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

LIFTING CAPACITIES



Clamshell Rating Charts Crane Boom Capacities

Counterweight: 22.8 t
Without Carbody Weight
Crawler Fully Extended

Unit: metric ton

Load radius (m)	Boom length (m)	9.1	12.2	15.2	18.3	21.3				Boom length (m)	Load radius (m)
5.0	7.0										5.0
5.5	7.0										5.5
6.0	7.0	7.0									6.0
7.0	7.0	7.0	7.0								7.0
8.0	7.0	7.0	7.0	7.0							8.0
9.0	7.0	7.0	7.0	7.0	7.0						9.0
10.0		7.0	7.0	7.0	7.0	7.0					10.0
12.0			7.0	7.0	7.0	7.0					12.0
14.0			7.0	7.0	7.0	7.0					14.0
16.0				7.0	7.0	7.0					16.0
18.0					7.0	7.0					18.0
20.0											20.0
22.0											22.0
24.0											24.0
26.0											26.0
28.0											28.0
30.0											30.0
32.0											32.0
34.0											34.0
36.0											36.0
38.0											38.0
40.0											40.0
42.0											42.0
44.0											44.0
Reeves		1	1	1	1	1					Reeves

Note:
Please refer rated chart in operator's cabin.

SUPPLEMENTAL DATA FOR REDUCED WEIGHTS RATING CHART

- Ratings are calculated to comply with EN13000, ISO 4305 and include factors based on a 4 degree tipping angle.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- The weight of hook block, slings, and all other load handling accessories shall be considered part of the lifted load.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for the operation on a firm and level surface, up to 1 % gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 parts of line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are based on structural competence.
- The minimum rated load is 1.1 t.
- Crawlers must be fully extended for all crane operations.
- Ratings shown are based on allowable wind speed of 9.8 m/s or less.
The wind speed mentioned here means the instantaneous wind speed.
- Ratings shown are based on allowable travel speed of 0.1 m/s or less.

(Crane boom lifting)

- The total load that can be lifted is the value of the weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	78	157	235	314	392
Maximum Loads (t)	8.0	16.0	24.0	32.0	40.0

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	471	549	628	706	785
Maximum Loads (t)	48.0	56.0	64.0	72.0	80.0

Auxiliary hoist loads

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

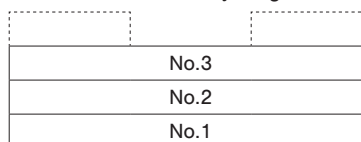
Weight of hook block					
Hook Block	80 t	50 t	32 t	19 t	7.0 t Ball Hook
Weight (t)	0.8	0.7	0.5	0.4	0.16

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

<Reference Information>

Assembling the counterweight (standard type)

22.8 ton counterweight
without carbody weight



Counterweights

Carbody weights

Assembling the counterweight (optional type)

(Equipped with self removal device)

17.7 ton counterweight
without carbody weight



Counterweights

Carbody weights

- Although the total weight of the counterweight is different between machine equipped with self-removal device and machine not equipped with self-removal device, the lifting capacity is the same.

LIFTING CAPACITIES



Reduced Weights Rating Charts Crane Boom Lifting Capacities

Counterweight: 22.8 t
Without Carbody Weight
Crawler Fully Extended

Unit: metric ton

Load radius (m)	Boom length (m)												Boom length (m)	Load radius (m)	
		9.1	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6			
3.0	3.0m/73.8														3.0
3.5	68.7	3.6m/66.9													3.5
4.0	64.4	63.1	4.2m/58.4												4.0
4.5	55.4	55.4	53.3	4.7m/47.4											4.5
5.0	45.9	45.8	45.8	44.0	5.2m/38.9										5.0
5.5	39.2	39.1	39.0	39.0	37.2	5.7m/33.4									5.5
6.0	34.1	34.0	33.9	33.9	33.7	32.2	6.3m/29.2	6.8m/25.7							6.0
7.0	27.0	26.9	26.8	26.8	26.7	26.6	26.0	24.9	7.3m/22.7	7.9m/20.3					7.0
8.0	22.3	22.2	22.1	22.1	22.0	21.9	21.8	21.6	20.8	20.1	8.4m/18.4				8.0
9.0	19.0	18.9	18.7	18.7	18.6	18.5	18.4	18.3	18.3	17.7	17.1				9.0
10.0	9.2m/18.5	16.3	16.2	16.2	16.1	16.0	15.9	15.8	15.7	15.6	15.2				10.0
12.0		11.9m/12.9	12.7	12.6	12.5	12.4	12.3	12.2	12.2	12.0	12.0				12.0
14.0			10.3	10.3	10.2	10.1	10.0	9.8	9.8	9.7	9.6				14.0
16.0			14.5m/9.9	8.6	8.5	8.4	8.3	8.1	8.1	8.0	7.9				16.0
18.0				17.1m/7.9	7.2	7.1	7.0	6.9	6.8	6.7	6.6				18.0
20.0					19.8m/6.3	6.2	6.0	5.9	5.9	5.7	5.6				20.0
22.0						5.4	5.3	5.1	5.1	4.9	4.8				22.0
24.0							22.4m/5.3	4.6	4.5	4.4	4.3	4.2			24.0
26.0								25.1m/4.3	4.0	3.9	3.8	3.7			26.0
28.0									27.7m/3.5	3.5	3.3	3.2			28.0
30.0										3.1	2.9	2.8			30.0
32.0											30.3m/3.0	2.6	2.4		32.0
34.0												33.0m/2.3	2.1		34.0
36.0													35.0m/1.9		36.0
Reeves	10	9	8	6	5	5	4	4	3	3	3	3	3	Reeves	

Load radius (m)	Boom length (m)												Boom length (m)	Load radius (m)	
		42.7	45.7	48.8	51.8										
9.0	9.0m/16.5	9.4m/15.0													9.0
10.0	14.7	14.2	10.0m/13.7	10.5m/12.6											10.0
12.0	11.8	11.5	11.1	10.8											12.0
14.0	9.4	9.4	9.2	8.9											14.0
16.0	7.7	7.7	7.6	7.5											16.0
18.0	6.5	6.4	6.3	6.2											18.0
20.0	5.5	5.4	5.3	5.2											20.0
22.0	4.7	4.7	4.5	4.4											22.0
24.0	4.1	4.0	3.9	3.8											24.0
26.0	3.5	3.5	3.3	3.2											26.0
28.0	3.1	3.0	2.9	2.7											28.0
30.0	2.6	2.6	2.4	2.3											30.0
32.0	2.3	2.2	2.1	1.9											32.0
34.0	2.0	1.9	1.7	1.6											34.0
36.0	1.7	1.6	1.4	1.3											36.0
38.0	1.4	1.3	1.2	1.1											38.0
40.0	38.3m/1.3	1.1													40.0
42.0															42.0
44.0															44.0
46.0															46.0
48.0															48.0
50.0															50.0
Reeves	3	2	2	2											Reeves

Note:

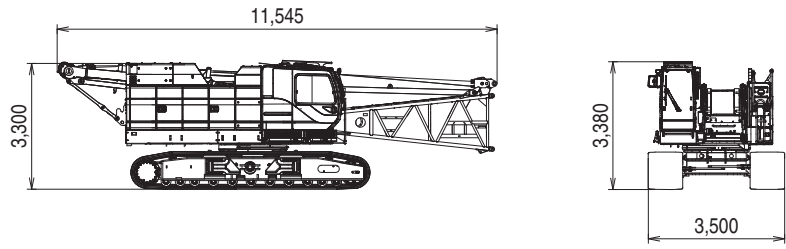
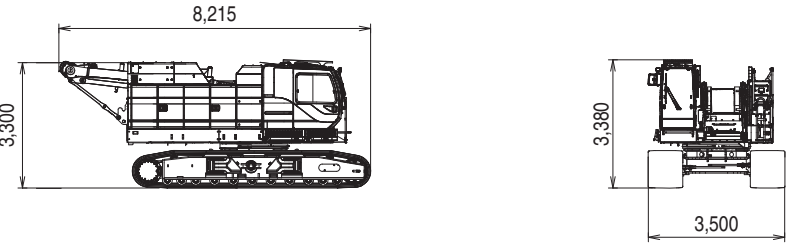
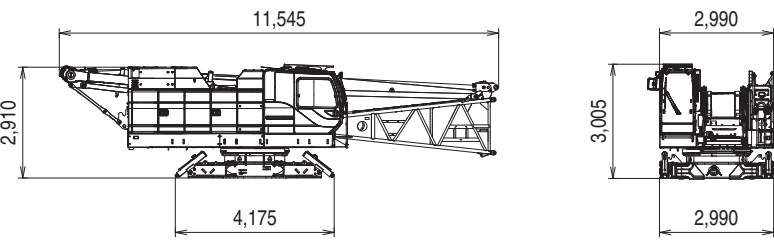
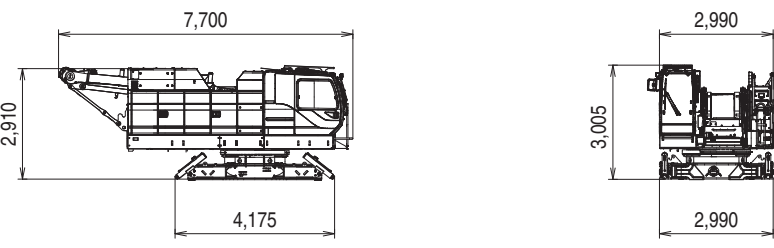
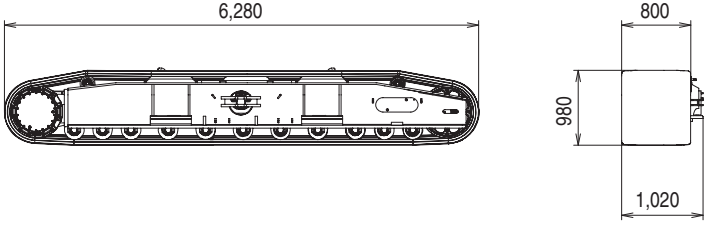
Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

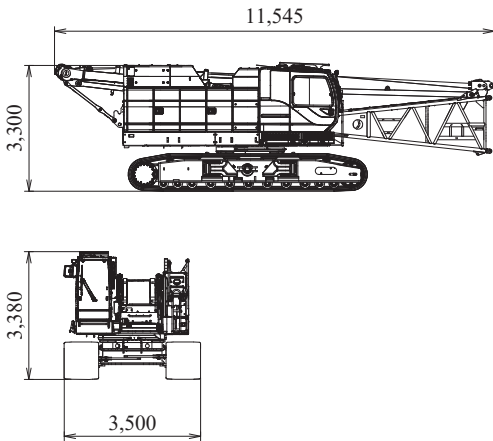
TRANSPORTATION PLAN

Name	Dimension	Weight (kg)
<p>Base Machine</p> <ul style="list-style-type: none"> • Gantry • Boom base • Boom drum • Wire rope (Front / rear / boom drum) • Without self removal device (option) • Side catwalk • Crawler • Without translifter (option) 		39,780
<p>Base Machine</p> <ul style="list-style-type: none"> • Gantry • Without boom base • Boom drum • Wire rope (Front / rear / boom drum) • Without self removal device (option) • Side catwalk • Crawler • Without translifter (option) 		37,800
<p>Base Machine</p> <ul style="list-style-type: none"> • Gantry • Boom base • Boom drum • Wire rope (Front / rear / boom drum) • Without self removal device (option) • Without side catwalk • Without crawler • Translifter (option) 		26,660
<p>Base Machine</p> <ul style="list-style-type: none"> • Gantry • Without boom base • Boom drum • Wire rope (Front / rear / boom drum) • Without self removal device (option) • Without side catwalk • Without crawler • Translifter (option) 		24,680
Crawler		7,130

PARTS AND ATTACHMENTS

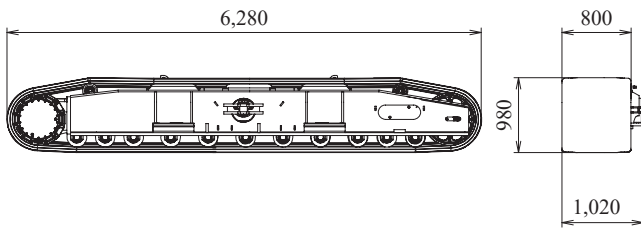
Base Machine

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



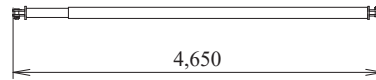
Crawler

Weight: 7,130 kg



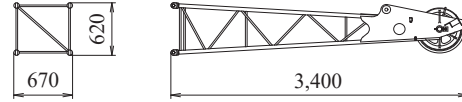
Backstop (1 piece)

Weight: 245 kg



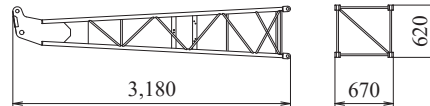
Jib Tip

Weight: 145 kg



Jib Base

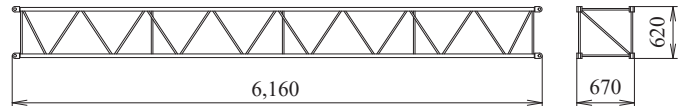
Weight: 125 kg



6.1 m

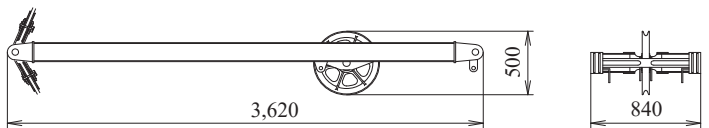
Jib Insert

Weight: 140 kg



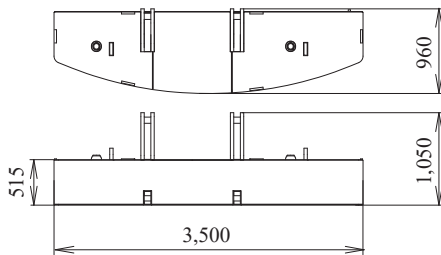
Jib Strut

Weight: 190 kg



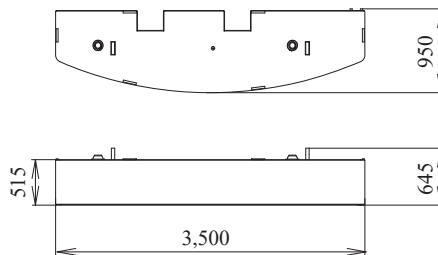
Counterweight No.1

Weight: 8,530 kg



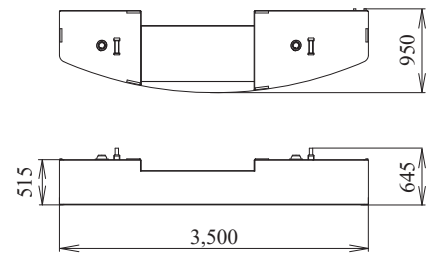
Counterweight No.2

Weight: 7,860 kg



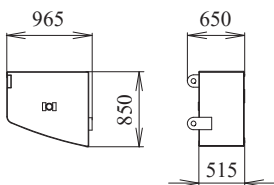
Counterweight No.3

Weight: 6,410 kg



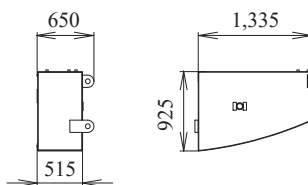
Counterweight No.4 (L)

Weight: 1,660 kg



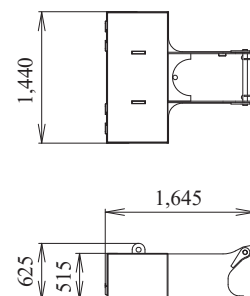
Counterweight No.5 (R)

Weight: 2,740 kg



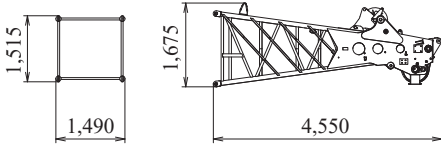
Carbody Weight

Weight: 3,250 kg / 1 piece



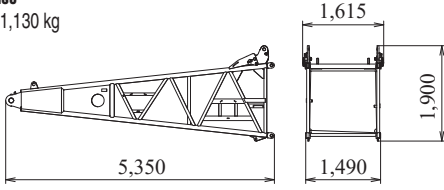
Boom Tip

Weight: 1,110 kg



Boom Base

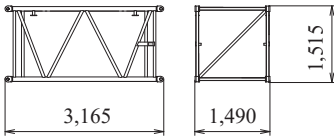
Weight: 1,130 kg



3.0 m

Boom Insert

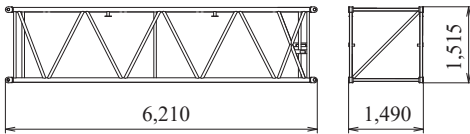
Weight: 310 kg



6.1 m

Boom Insert

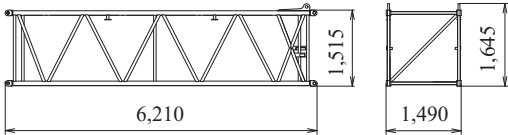
Weight: 525 kg



6.1 m

Boom Insert With Lug

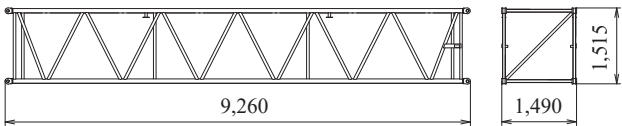
Weight: 550 kg



9.1 m

Boom Insert

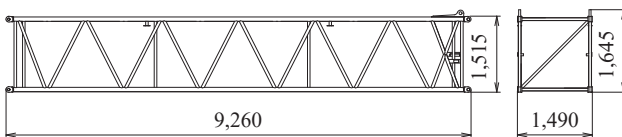
Weight: 745 kg



9.1 m

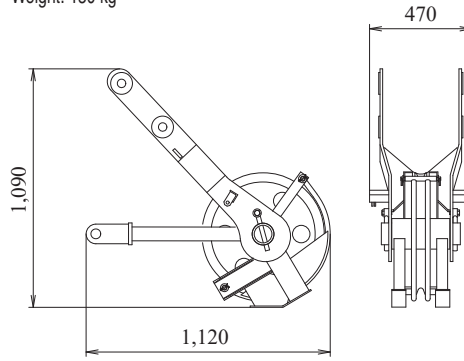
Boom Insert With Lug

Weight: 770 kg



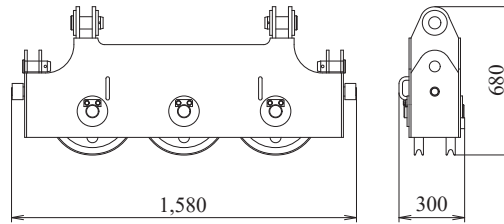
Auxiliary Sheave

Weight: 150 kg



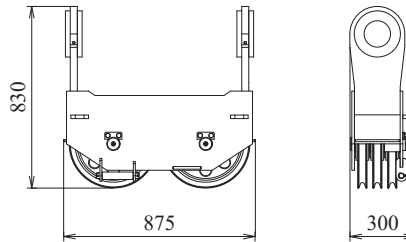
Upper Spreader

Weight: 280 kg



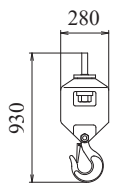
Lower Spreader

Weight: 215 kg



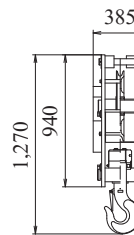
Ball Hook

Weight: 160 kg



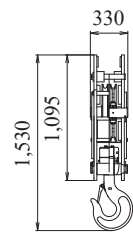
19 t Hook

Weight: 400 kg



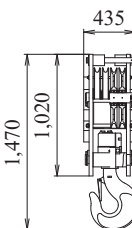
32 t Hook

Weight: 500 kg



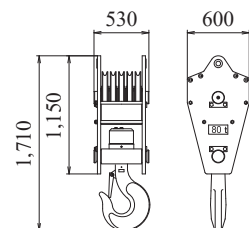
50 t Hook

Weight: 650 kg



80 t Hook

Weight: 800 kg



Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

Copyright by KOBELCO CONSTRUCTION MACHINERY CO., LTD. No part of this catalog may be reproduced in any manner without notice.



KOBELCO CONSTRUCTION MACHINERY CO., LTD.

Inquiries To:

5-15, Kitashinagawa 5-chome, Shinagawa-ku, Tokyo 141-8626 JAPAN

Tel: +81-3-5789-2121 Fax: +81-3-5789-3372

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