KOBELCO

HYDRAULIC CRAWLER CRANE

7250

Model: 7250-2

Max. Lifting Capacity: 250 t
Max. Boom Length: 76.2 m
Max. Long Boom Length: 91.4 m
Max. Jib Combination: 76.2 + 30.5 m
Max. Luffing Tower Combination: 64.1 + 51.8 m

SPECIFICATIONS

Power Plant

Model: Mitsubishi diesel engine 6D24-TLE2A
Type: Water-cooled, direct fuel injection, with turbocharger Compiles with NRMM (Europe) Tier II and US EPA Tier II.
Displacement: 11.945 liters
Rated Power:235 kW at 2,000 min^{-1} (rpm) (JIS D0006)
Max. torque: 1,245 N·m/1,400 min^{-1}
Cooling system: Liquid, recirculating bypass
Starter: 24 V/7.0 kW
Radiator: Corrugated type core, thermostatically controlled
Air cleaner: Dry type with replaceable paper element
Throttle: Electric throttle control, twist grip type
Fuel filter: Heavy duty with spin off type cartridge
Batteries: Two 12V - 136Ah 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 paper element
Electrical system: All wiring corded for easy servicing, individual fused branch circuits.

Max. relief valve pressure:
Load hoist, boom hoist and propel system:
32.0 MPa (325 kgf/cm^2)
Swing system: 27.5 MPa (280 kgf/cm^2)
Control system: 5.4 MPa (55 kgf/cm^2)
Reservoir capacity: 520 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 rachet for locking drum.
Drum: Double drum, grooved for 22 mm dia. wire rope.
Line speed: Double line on first drum layer
Hoisting/Lowering: 27 to 2 m/min x 2

Diameter of wire ropes
Boom guy line: 38 mm
Boom hoist reeving: 20 parts of 22 mm dia.high strength wire rope
Boom backstops: Required for all boom lengths

Load Hoist System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
Negative Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional item.)
Drum lock: External rachet for locking drum.
Drums:
Front drum:
620 mm P.C.D. x 812 mm wide drum, grooved for 28 mm wire rope. Rope capacity is 390 m working length and 390 m storage length.
Rear drum:
620 mm P.C.D. x 546 mm wide drum, grooved for 28 mm wire rope. Rope capacity is 220 m working length and 250 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: 110 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 gears through planetary reducers (2 sets), the swing system provides 360° rotation.
Swing 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: 2.2 min^{-1} (rpm)

Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level.
Counterweight: 97.1 t

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, front and lower 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 short levers for front and rear drum, swing and boom drum controls

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 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): 136 shoes, 1,070 mm wide each crawler
(Optional 1,220 mm shoe is available)

Max. travel speed: 1.1/0.7 km/h

Max. gradeability: 30%

Weight

Including upper and lower machine, 97.1 ton counterweight and 20.0 ton carbody weight, 15.2 m basic boom (or 36.6 m basic tower + 27.9 m basic jib), hook and other accessories.

Specification	Weight	Ground pressure
Main boom	Approx. 208.0 ton,	114 kPa (1.16 kgf/cm²)
Luffing tower	Approx. 219.0 ton,	120 kPa (1.22 kgf/cm²)

Attachment

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

Boom Length

	Main Boom	Long Boom	Luffing Tower
Basic Boom	15.2 m	73.2 m	36.6 m
Max. Boom	76.2 m	91.4 m	64.1 m

Jib Length

	Fixed Jib		Luffing Jib
Basic JIb	12.2 m		27.4 m
Max. Jib	30.5 m		51.8 m

Max. Combination (Boom + Jib)

Fixed Jib	76.2 m + 30.5 m
Luffing Tower	64.1 m + 51.8 m

Main Specifications (Model: 7250-2)

Main Boom	
Max. Lifting Capacity	250 t/4.6 m
Max. Length	76.2 m
Long Boom	
Max. Lifting Capacity	37.5 t/14.4 m
Max. Length	91.4 m
Fixed Jib	
Max. Lifting Capacity	22.7 t/15.0 m
Max. Combination	76.2 m + 30.5 m
Luffing Tower	
Max. Lifting Capacity	25.0 t/18.0 m
Max. Combination	64.1 m + 51.8 m
Luffing Angle	60° ~ 90°
Main & Aux. Winch	
Max. Line Speed	110 m/min (1st layer)
Rated Line Pull (Single Line)	132 kN (13.5 tf)
Wire Rope	28 mm
Wire Rope Length	390 m (Main) 210 m (Aux.)
Brake Type	Spring-set hydraulically released multiple disc brake (Nagative)
Free-Fall	Option

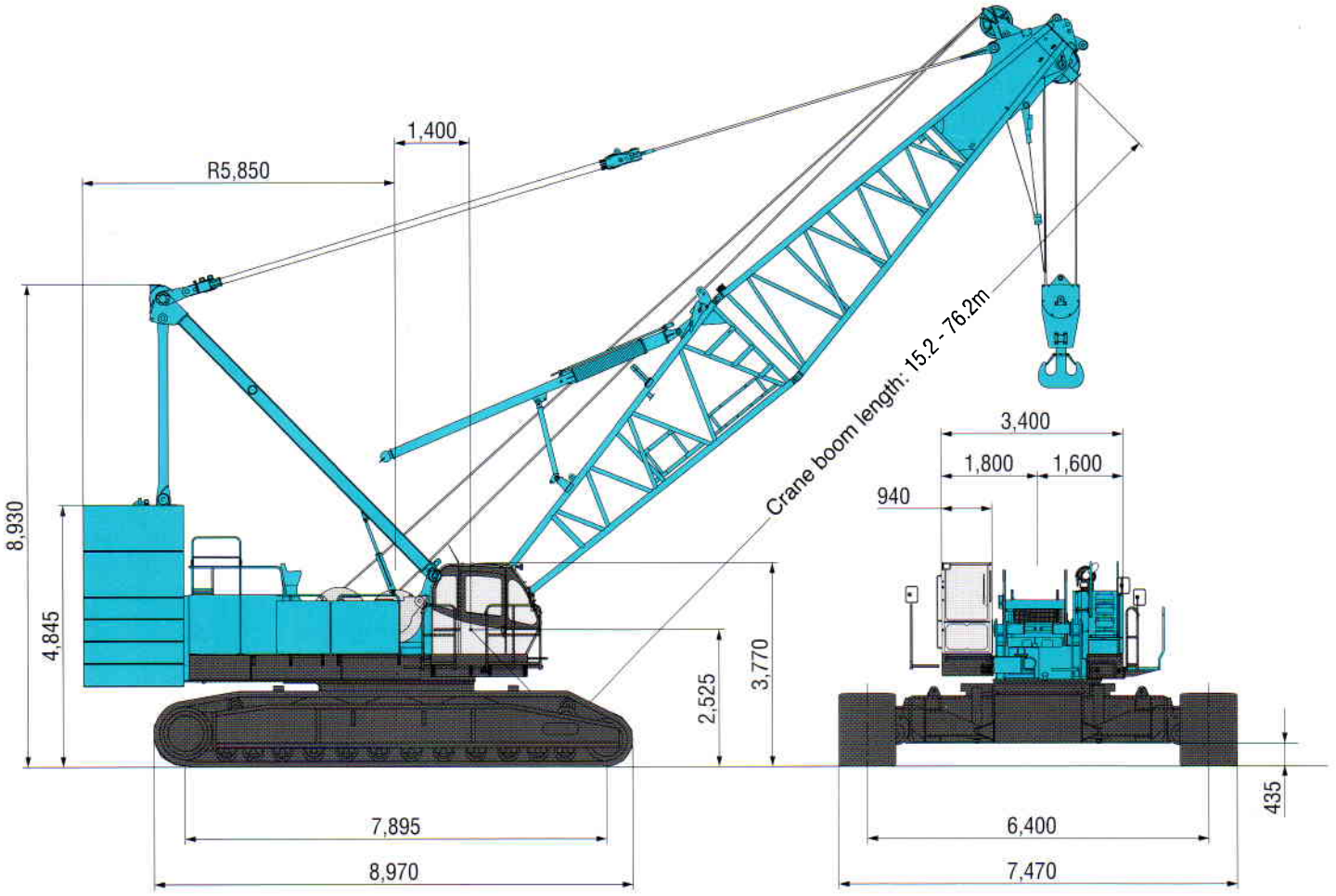
Working Speed	
Swing Speed	2.2 min⁻¹ (rpm)
Travel Speed	1.1/0.7 km/h
Power Plant	
Model	Mitsubishi 6D24-TLE2A
Engine Output	235 kW/2,000 min⁻¹ (rpm)
Fuel Tank Capacity	400 liters
Hydraulic System	
Main Pumps	4 variable displacement
Max. Pressure	32.0 MPa (325 kgf/cm²)
Hydraulic Tank Capacity	520 liters
Weight	
Operating Weight*	Approx. 208 t
Ground Pressure*	114 kPa (1.16 kgf/cm²)
Counterweight	97.1 t (Upper), 20.0 t (Lower)
Transport Weight	44.5 t (Main machine)**

* Including upper and lower machine, 97.1 ton counterweight and 20.0 ton carbody weight, basic boom, hook, and other accessories.
** Including carbody, gantry, translifter and lower boom.

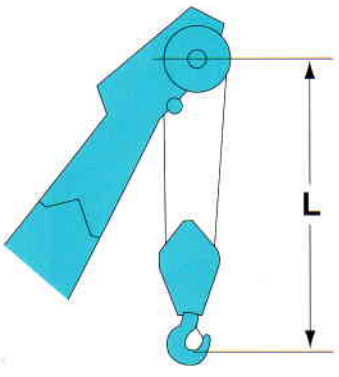
GENERAL DIMENSIONS

Main Boom

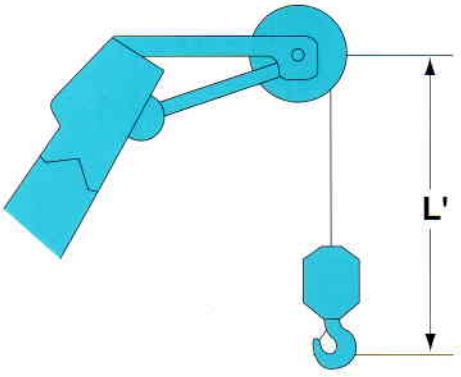
(Unit: mm)



Limit of Hook Lifting



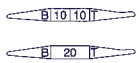
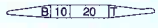
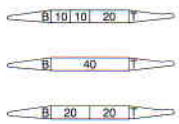
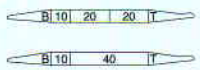
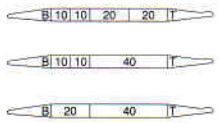
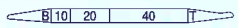
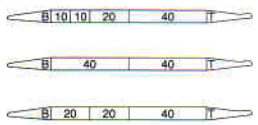
Hook	L
250 t hook	5.3 m
150 t hook	5.8 m
100 t hook	5.0 m
70 t hook	4.9 m
35 t hook	4.7 m

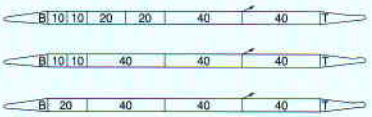
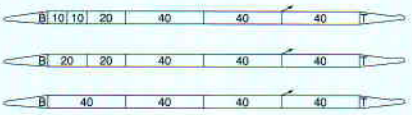
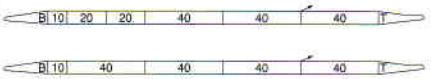
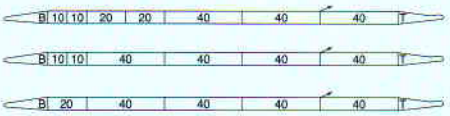
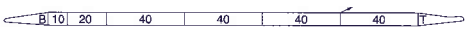
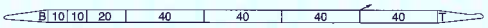


Hook	L'
13.5 t ball hook	3.2 m

BOOM AND JIB ARRANGEMENTS

Main Boom Arrangements

Boom length m (ft)	Boom arrangement
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)	※ 

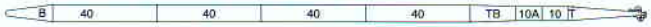
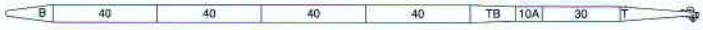
Boom length m (ft)	Boom arrangement
48.8 (160)	※ 
51.8 (170)	※ 
54.9 (180)	※ 
57.9 (190)	※ 
61.0 (200)	※ 
64.0 (210)	※ 
67.1 (220)	※ 
70.1 (230)	※ 
73.2 (240)	※ 
76.2 (250)	※ 

Symbol	Boom Length	Remarks
B	7.6 m	Boom Base
T	7.6 m	Boom Top
10	3.0 m	Insert Boom
20	6.1 m	Insert Boom
40	12.2 m	Insert Boom

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

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

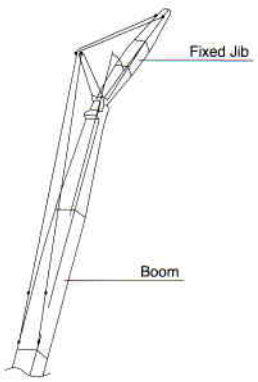
Long Boom Arrangements

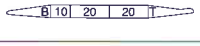
Boom length m (ft)	Boom arrangement
73.2 (240)	
76.2 (250)	※ 
79.2 (260)	※  
82.3 (270)	※  
85.3 (280)	※  
88.4 (290)	※  
91.4 (300)	※  

Symbol	Boom Length	Remarks
B	7.6 m	Boom Base
T	9.1 m	Tower Jib Top
10	3.0 m	Insert Boom
40	12.2 m	Insert Boom
TB	4.6 m	Tapered Boom
10A	3.0 m	Relay Jib
10	3.0 m	Tower Insert Jib
20	6.1 m	Tower Insert Jib
30	9.1 m	Tower Insert Jib

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

Fixed Jib Arrangements



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

Symbol	Jib Length	Remarks
B	4.6 m	Jib Base
T	4.6 m	Jib Top
10	3.0 m	Insert Jib
20	6.1 m	Insert Jib

Hook Blocks

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

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)							
			1	2	3	4	5	6	7	8
250-ton	4,200	11	13.5	25.0	37.5	50.0	62.5	75.0	87.5	100.0
150-ton*	2,300	6	13.5	25.0	37.5	50.0	62.5	75.0	87.5	100.0
100-ton	1,800	4	13.5	25.0	37.5	50.0	62.5	75.0	87.5	100.0
70-ton	1,200	3	13.5	25.0	37.5	50.0	62.5	65.0		
35-ton	900	1	13.5	25.0	35.0					
13.5-ton ball hook	450	0	13.5							

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)						
			10	12	14	16	18	20	22
250-ton	4,200	11	125.0	150.0	175.0	200.0	225.0	240.0	250.0
150-ton*	2,300	6	125.0	150.0					
100-ton	1,800	4							
70-ton	1,200	3							
35-ton	900	1							
13.5-ton ball hook	450	0							

*150-ton hook block can be converted to 100-ton hook block.

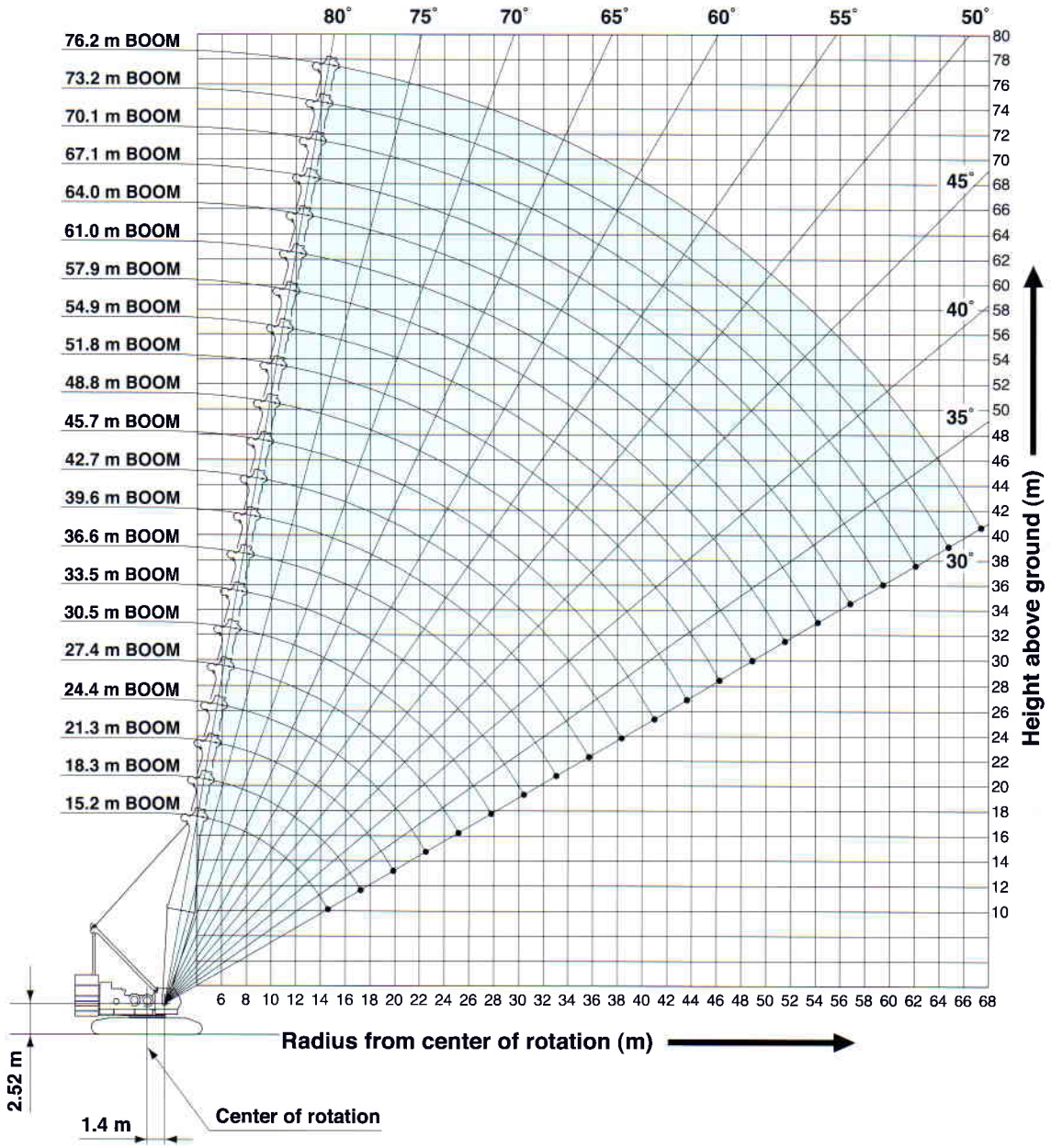
Style and Combination of Boom and Jib

Style	Main Boom	Long Boom	Fixed Jib	Luffing Tower
Specifications				
Max. lifting capacity	250.0 t x 4.6 m	37.5 t x 14.4 m	22.7 t x 15.0 m	25.0 t x 18.0 m
Basic boom length (Basic Combinations)	15.2 m	73.2 m	42.7 m+12.2m	36.6 m+27.4 m
Max. boom length (Max. Combinations)	76.2 m	91.4 m	76.2 m + 30.5 m	64.1 m+51.8 m
Crane Boom/Luffing Tower				
7.6 m Boom Base	Common use(1)	Common use(1)	Common use(1)	Common use(1)
7.6 m Boom Top	Common use(1)	N.A.	Common use(1)	N.A.
1.58 m Tower cap	N.A.	N.A.	N.A.	Luffing Tower only(1)
3.0 m Insert Boom	Common use(2)	Common use(1)	Common use(2)	Common use(1)
6.1 m Insert Boom	Common use(1)	N.A.	Common use(1)	Common use(3)
12.2 m Insert Boom	Common use(4)	Common use(4)	Common use(4)	Common use(2)
9.1 m Special Insert Boom for Tower	N.A.	N.A.	N.A.	Luffing Tower only(1)
4.6 m Tapered Boom	N.A.	Long Boom only(1)	N.A.	N.A.
Fixed Jib/ Luffing Tower Jib				
4.6 m Jib Base	N.A.	N.A.	Fixed Jib only(1)	N.A.
4.6 m Jib Top	N.A.	N.A.	Fixed Jib only(1)	N.A.
3.0 m Insert Jib	N.A.	N.A.	Fixed Jib only(1)	N.A.
6.1 m Insert Jib	N.A.	N.A.	Fixed Jib only(3)	N.A.
9.1 m Tower Jib Base	N.A.	N.A.	N.A.	Luffing Tower only(1)
9.1 m Tower Jib Top	N.A.	Common use(1)	N.A.	Common use(1)
3.0 m Relay Jib	N.A.	Common use(1)	N.A.	Common use(1)
3.0 m Tower Insert Jib	N.A.	Common use(2)	N.A.	Common use(2)
6.1 m Tower Insert Jib	N.A.	Common use	N.A.	Common use(1)
9.1 m Tower Insert Jib	N.A.	Common use(1)	N.A.	Common use(2)

Note:
1. Figure in ( ) means the numbers of the maximum usable boom (or jib) respectively.
2. N.A.: Not applicable

WORKING RANGES AND LIFTING CAPACITIES

Main Boom Working Ranges



NOTES:

1. Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
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 main hook block, slings and all other load handling accessories from main boom or auxiliary sheave 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.
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. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
14. Main boom ratings: Deduct weight of main hook block, slings, and all other load handling accessories from main boom ratings shown.
15. Auxiliary sheave ratings: Deduct weight of ball hook, slings, and all other load handling accessories from auxiliary sheave ratings shown. Boom lengths for auxiliary sheave mounting are 15.2 m to 76.2 m.
16. Main boom ratings with auxiliary sheave: Deduct 0.9 ton from main boom ratings shown. Minimum rated loads must exceed 2.4 ton.

Main Boom Lifting Capacity

Unit: metric ton

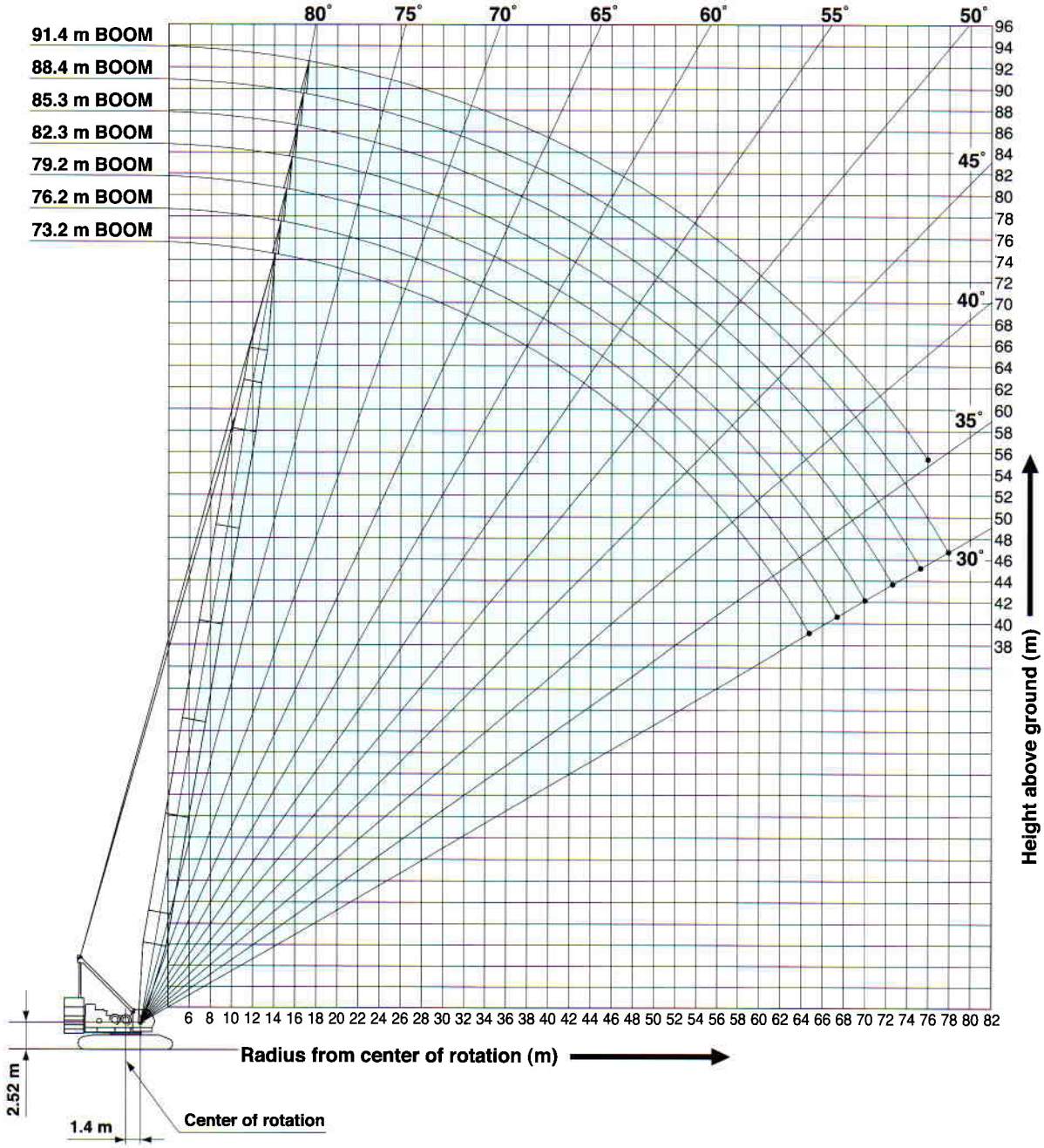
Counterweight: 97.1 t, Carbody weight: 20.0 t

Working radius (m) \ Boom length (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)
4.6	4.6 m/250.0												4.6
5.0	230.7	5.0 m/219.0	5.5 m/197.6										5.0
6.0	191.5	191.5	191.1	6.1 m/175.0	6.6 m/150.0								6.0
7.0	165.9	165.6	165.2	165.0	150.0	7.1 m/125.0	7.7m/125.0						7.0
8.0	146.1	145.8	145.4	145.2	144.9	125.0	125.0	8.2 m/100.0	8.7m/100.0				8.0
9.0	130.4	130.1	129.8	129.6	129.2	125.0	122.9	100.0	100.0	9.2 m/98.6	9.8 m/87.5		9.0
10.0	117.7	117.4	117.1	116.9	116.5	116.3	116.0	100.0	100.0	96.6	87.5	10.3 m/75.0	10.0
12.0	90.5	90.3	90.1	90.0	89.8	89.8	89.5	89.5	89.4	89.2	85.1	75.0	12.0
14.0	69.0	72.7	72.4	72.3	72.1	72.0	71.8	71.8	71.6	71.4	71.2	71.2	14.0
16.0	14.8 m/60.9	60.6	60.3	60.2	60.0	59.9	59.6	59.6	59.4	59.2	59.0	59.0	16.0
18.0		17.5 m/52.2	51.6	51.4	51.2	51.1	50.8	50.8	50.5	50.3	50.1	50.1	18.0
20.0			45.0	44.8	44.5	44.4	44.0	44.0	43.8	43.6	43.4	43.3	20.0
22.0			20.1 m/44.8	39.6	39.3	39.1	38.8	38.8	38.5	38.3	38.1	38.0	22.0
24.0				22.7 m/38.0	35.1	34.9	34.5	34.5	34.2	34.0	33.8	33.7	24.0
26.0					25.4 m/32.6	31.4	31.0	31.0	30.7	30.5	30.3	30.2	26.0
28.0						28.0 m/28.5	28.1	28.1	27.8	27.5	27.3	27.3	28.0
30.0							25.7	25.7	25.3	25.1	24.8	24.8	30.0
32.0							30.7 m/25.0	23.5	23.2	22.9	22.7	22.6	32.0
34.0								33.3 m/22.3	21.4	21.1	20.8	20.7	34.0
36.0									35.9 m/19.8	19.5	19.2	19.1	36.0
38.0										18.1	17.8	17.7	38.0
40.0										38.6 m/17.7	16.5	16.4	40.0
42.0											41.2 m/15.8	15.3	42.0
44.0												43.9 m/14.3	44.0
Reeves	22	18	16	14	12	10	10	8	8	8	7	6	Reeves

Working radius (m) \ Boom length (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	10.8 m/75.0	11.4 m/71.4	11.9m/62.5							10.0
12.0	75.0	70.4	62.5	12.4 m/61.1	12.9 m/56.3	13.5 m/50.0				12.0
14.0	70.8	66.5	61.9	58.3	54.7	50.0	14.0 m/47.6	14.5 m/43.1	15.1 m/37.1	14.0
16.0	58.7	58.5	58.4	55.2	51.6	48.0	44.9	41.4	35.9	16.0
18.0	49.8	49.6	49.5	49.3	48.7	45.3	42.3	38.9	33.8	18.0
20.0	43.1	42.8	42.7	42.6	42.3	42.2	39.8	36.7	31.8	20.0
22.0	37.7	37.5	37.4	37.2	37.0	36.9	36.6	34.5	29.8	22.0
24.0	33.5	33.2	33.1	32.9	32.6	32.6	32.3	32.1	27.9	24.0
26.0	29.9	29.7	29.5	29.4	29.1	29.0	28.8	28.6	26.2	26.0
28.0	27.0	26.7	26.6	26.4	26.1	26.0	25.8	25.6	24.5	28.0
30.0	24.5	24.2	24.0	23.9	23.6	23.5	23.2	23.1	23.0	30.0
32.0	22.3	22.1	21.9	21.7	21.4	21.3	21.1	20.9	20.8	32.0
34.0	20.4	20.2	20.0	19.8	19.6	19.5	19.2	19.0	18.9	34.0
36.0	18.8	18.5	18.4	18.2	17.9	17.8	17.5	17.3	17.2	36.0
38.0	17.4	17.1	16.9	16.7	16.4	16.3	16.0	15.9	15.8	38.0
40.0	16.1	15.8	15.6	15.4	15.1	15.0	14.7	14.6	14.5	40.0
42.0	14.9	14.7	14.5	14.3	14.0	13.9	13.6	13.4	13.3	42.0
44.0	13.9	13.7	13.4	13.3	12.9	12.8	12.5	12.4	12.2	44.0
46.0	13.0	12.7	12.5	12.3	12.0	11.9	11.6	11.4	11.3	46.0
48.0	46.5 m/12.8	11.9	11.6	11.5	11.2	11.0	10.7	10.6	10.4	48.0
50.0		49.1 m/11.5	10.9	10.7	10.4	10.2	9.9	9.8	9.6	50.0
52.0			51.8 m/10.3	10.0	9.7	9.5	9.2	9.0	8.9	52.0
54.0				9.4	9.0	8.9	8.6	8.4	8.2	54.0
56.0				54.4 m/9.2	8.4	8.3	8.0	7.8	7.6	56.0
58.0					57.1m/8.2	7.7	7.4	7.2	6.9	58.0
60.0						59.7 m/7.3	6.8	6.6	6.3	60.0
62.0							6.3	6.0	5.7	62.0
64.0							62.3 m/6.2	5.5	5.2	64.0
66.0								65.0 m/5.3	4.7	66.0
68.0									67.6 m/4.3	68.0
Reeves	6	6	5	5	5	4	4	4	3	Reeves

Note:
Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P12.

Long Boom Working Ranges



NOTES:

1. Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
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 main hook block, slings and all other load handling accessories from main boom or auxiliary sheave 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.
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. Gantry must be in raised position for all conditions.
10. Boom backstops are required for all boom lengths.
11. Ratings shown in [ ] are determined by the strength of the boom or other structural component.
12. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
13. Long boom ratings: Deduct weight of main hook block, slings, and all other load handling accessories from long boom ratings shown.
14. Auxiliary sheave ratings: Deduct weight of ball hook, slings, and all other load handling accessories from auxiliary sheave ratings shown. Long boom lengths for auxiliary sheave mounting are 73.2 m to 88.4 m.
15. Long boom ratings with auxiliary sheave: Deduct 0.9 ton from long boom ratings shown. Minimum rated loads must exceed 2.4 ton.

Long Boom Lifting Capacity

Unit: metric ton

Counterweight: 97.1 t,
Carbody weight: 20.0 t

Working radius (m) \ Boom length (m)	73.2	76.2	79.2	82.3	85.3	88.4	91.4	Boom length (m) \ Working radius (m)
14.0	14.4 m/37.5	14.9 m/34.5	15.4 m/32.6					14.0
16.0	36.0	33.5	32.1	16.0 m/31.2	16.5 m/25.0	17.0 m/25.0	17.6 m/21.5	16.0
18.0	34.4	31.9	30.6	29.6	25.0	25.0	21.2	18.0
20.0	32.9	30.4	29.1	28.2	25.0	24.1	20.0	20.0
22.0	31.6	29.1	27.9	26.9	25.0	23.0	18.9	22.0
24.0	30.4	27.9	26.8	25.7	24.2	22.0	17.8	24.0
26.0	28.8	26.5	25.6	24.6	23.2	21.1	16.9	26.0
28.0	26.2	25.2	24.5	23.6	22.3	20.1	16.0	28.0
30.0	23.8	23.6	23.3	22.6	21.1	19.1	15.3	30.0
32.0	21.8	21.7	21.6	21.5	19.9	18.1	14.5	32.0
34.0	19.9	19.9	19.7	19.7	18.7	17.1	13.8	34.0
36.0	18.3	18.3	18.2	18.1	17.7	16.1	13.1	36.0
38.0	16.9	16.8	16.7	16.7	16.5	15.1	12.5	38.0
40.0	15.6	15.6	15.4	15.4	15.4	14.2	11.8	40.0
42.0	14.5	14.5	14.3	14.3	14.3	13.4	11.2	42.0
44.0	13.4	13.4	13.2	13.2	13.2	12.5	10.7	44.0
46.0	12.5	12.5	12.3	12.3	12.2	11.8	10.2	46.0
48.0	11.6	11.5	11.4	11.4	11.3	11.1	9.8	48.0
50.0	10.7	10.7	10.6	10.5	10.5	10.3	9.4	50.0
52.0	10.0	10.0	9.9	9.8	9.8	9.6	8.9	52.0
54.0	9.3	9.3	9.1	9.1	9.0	9.0	8.5	54.0
56.0	8.6	8.6	8.5	8.4	8.4	8.4	7.8	56.0
58.0	8.0	8.0	7.8	7.8	7.7	7.7	7.2	58.0
60.0	7.4	7.3	7.2	7.2	7.1	7.1	6.7	60.0
62.0	6.8	6.7	6.7	6.6	6.6	6.6	6.1	62.0
64.0	6.3	6.1	6.1	6.1	6.0	6.0	5.6	64.0
66.0	64.9 m/6.1	5.6	5.6	5.6	5.6	5.6	5.1	66.0
68.0		67.5 m/5.4	5.3	5.2	5.2	5.2	4.6	68.0
70.0			4.8	4.7	4.7	4.7	4.1	70.0
72.0			70.2 m/4.8	4.3	4.3	4.3	3.6	72.0
74.0				72.8 m/4.2	3.9	3.9	3.1	74.0
76.0					74.5 m/3.7	3.5	76.0 m/2.6	76.0
78.0						3.2		78.0
80.0						78.1 m/3.2		80.0
Reeves	3	3	3	3	2	2	2	Reeves

Note:
Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P15.

Auxiliary Sheave Lifting Capacity for Long Boom (Without Main Hook)

Unit: metric ton

Counterweight: 97.1 t,
Carbody weight: 20.0 t

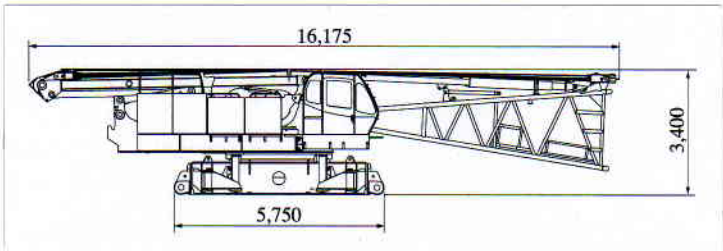
Working radius (m) \ Boom length (m)	73.2	76.2	79.2	82.3	85.3	88.4	Boom length (m) \ Working radius (m)
14.0	15.1 m/13.5	15.7 m/13.5					14.0
16.0	13.5	13.5	16.2 m/13.5	16.7 m/13.5	17.3 m/13.5	17.8 m/13.5	16.0
18.0	13.5	13.5	13.5	13.5	13.5	13.5	18.0
20.0	13.5	13.5	13.5	13.5	13.5	13.5	20.0
22.0	13.5	13.5	13.5	13.5	13.5	13.5	22.0
24.0	13.5	13.5	13.5	13.5	13.5	13.5	24.0
26.0	13.5	13.5	13.5	13.5	13.5	13.5	26.0
28.0	13.5	13.5	13.5	13.5	13.5	13.5	28.0
30.0	13.5	13.5	13.5	13.5	13.5	13.5	30.0
32.0	13.5	13.5	13.5	13.5	13.5	13.5	32.0
34.0	13.5	13.5	13.5	13.5	13.5	13.5	34.0
36.0	13.5	13.5	13.5	13.5	13.5	13.5	36.0
38.0	13.5	13.5	13.5	13.5	13.5	13.5	38.0
40.0	13.5	13.5	13.5	13.5	13.5	13.5	40.0
42.0	13.5	13.5	13.5	13.5	13.5	13.5	42.0
44.0	13.1	13.1	12.9	12.9	12.9	12.2	44.0
46.0	12.2	12.2	12.0	12.0	11.9	11.5	46.0
48.0	11.3	11.2	11.1	11.1	11.0	10.8	48.0
50.0	10.4	10.4	10.3	10.2	10.2	10.0	50.0
52.0	9.7	9.7	9.6	9.5	9.5	9.3	52.0
54.0	9.0	9.0	8.8	8.8	8.7	8.7	54.0
56.0	8.3	8.3	8.2	8.1	8.1	8.1	56.0
58.0	7.7	7.7	7.5	7.5	7.4	7.4	58.0
60.0	7.1	7.0	6.9	6.9	6.8	6.8	60.0
62.0	6.5	6.4	6.4	6.3	6.3	6.3	62.0
64.0	6.0	5.8	5.8	5.8	5.7	5.7	64.0
66.0	66.0 m/5.5	5.3	5.3	5.3	5.3	5.3	66.0
68.0		4.8	5.0	4.9	4.9	4.9	68.0
70.0		68.7 m/4.6	4.5	4.4	4.4	4.4	70.0
72.0			71.3 m/4.2	4.0	4.0	4.0	72.0
74.0				74.0 m/3.6	3.6	3.6	74.0
76.0					3.2	3.2	76.0
78.0					76.6 m/3.1	78.0 m/2.9	78.0
Reeves	1	1	1	1	1	1	Reeves

Note:
Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P15.

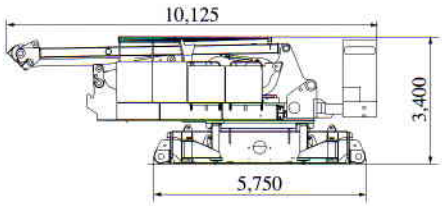
PARTS AND ATTACHMENTS

Dimensions: mm Weight: kg

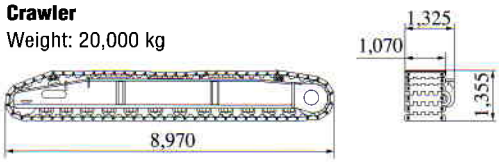
Base Machine
Including: boom base, carbody, gantry, trans-Lifter, lower spreader, and upper spreader
Weight: 44,500 kg Width: 3,400 mm



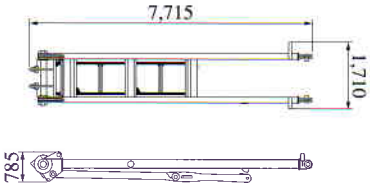
Base Machine
Including: boom base, carbody, gantry, Trans-Lifter
Without: lower spreader, wire rope for boom hoist, wire rope for main hoist
Weight: 37,300 kg Width: 3,200 mm



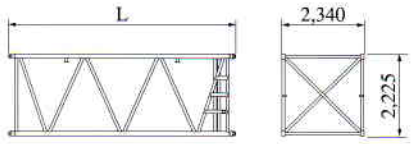
Crawler
Weight: 20,000 kg



Gantry
Weight: 2,830 kg

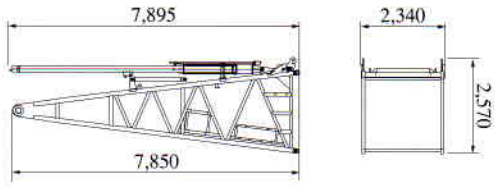


Insert Boom



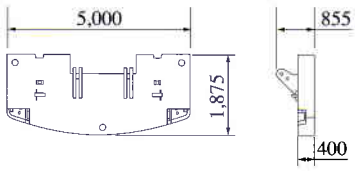
	L (mm)	Weight (kg)
3.0 m	3,175	740
6.1 m	6,225	1,210
12.2 m	12,320	2,152

Boom Base (with backstop)
Weight: 4,180 kg

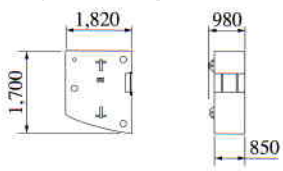


Boom Top
Weight: 3,860kg

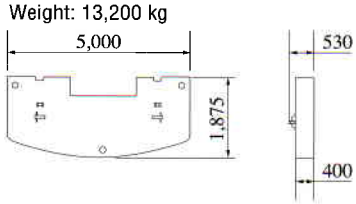
Counterweight A
Weight: 13,500 kg



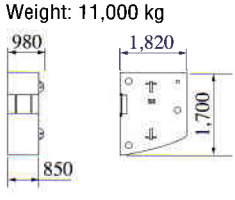
Counterweight E, E'
Weight: 11,000 kg



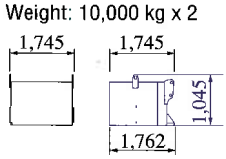
Counterweight B, C, D
Weight: 13,200 kg



Counterweight F, F'
Weight: 11,000 kg

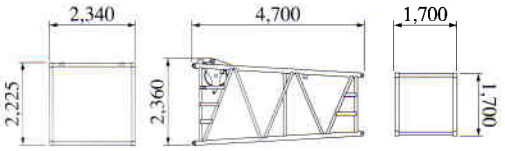


Carbodyweight
Weight: 10,000 kg x 2

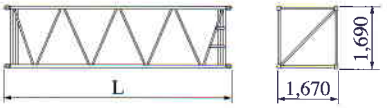


Dimensions: mm Weight: kg

Insert Tapered Boom
Weight: 1,160 kg

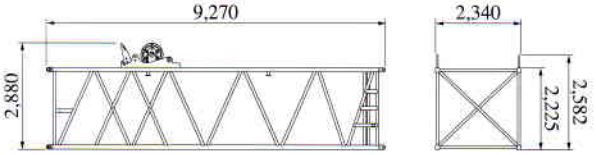


Insert Tower Jib

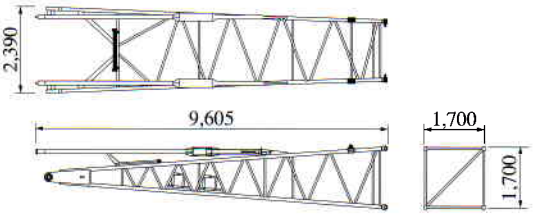


	L (mm)	Weight (kg)
3.0 m	3,160	320
6.1 m	6,210	530
9.1 m	9,260	740

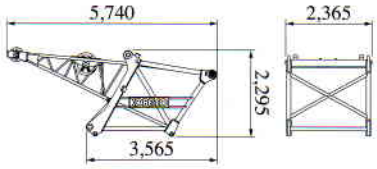
9.1 m Special Insert Boom for Tower
Weight: 2,200 kg



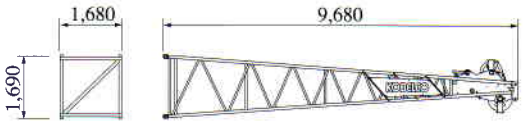
Tower Jib Base
Weight: 1,710 kg



Tower Cap
Weight: 2,310 kg



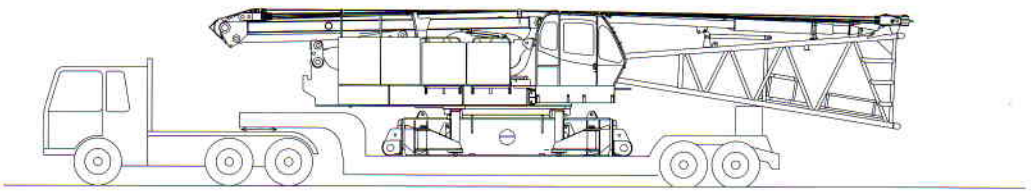
Tower Jib Top
Weight: 1,120 kg



Other Attachments

Attachments	Weight	Dimensions (L x W x H)
Trans-Lifter	395 kg	1,145 mm x 400 mm x 1,390 mm
Upper Spreader	670 kg	2,410 mm x 250 mm x 890 mm
Lower Spreader	400 kg	1,500 mm x 290 mm x 760 mm
Tower Strut	2,190 kg	7,165 mm x 1,150 mm x 2,430 mm
Upper Spreader for Tower Jib	260 kg	1,020 mm x 335 mm x 765 mm
Lower Spreader for Tower Jib	490 kg	2,334 mm x 705 mm x 1,090 mm
Ball Hook	450 kg	1,200 mm x 380 mm dia.
35-ton Hook	900 kg	365 mm x 700 mm x 1,575 mm
70-ton Hook	1,200 kg	385 mm x 700 mm x 1,815 mm
100-ton Hook	1,800 kg	555 mm x 700 mm x 2,025 mm
150-ton Hook	2,300 kg	715 mm x 700 mm x 2,665 mm
250-ton Hook	4,200 kg	2,308 mm x 1,616 mm x 720 mm

Transportation of Base Machine



1. Rest the lower boom on the wooden block.
2.This transportation plan depends on specifications of your trailer and the areas or countries where you tansport.