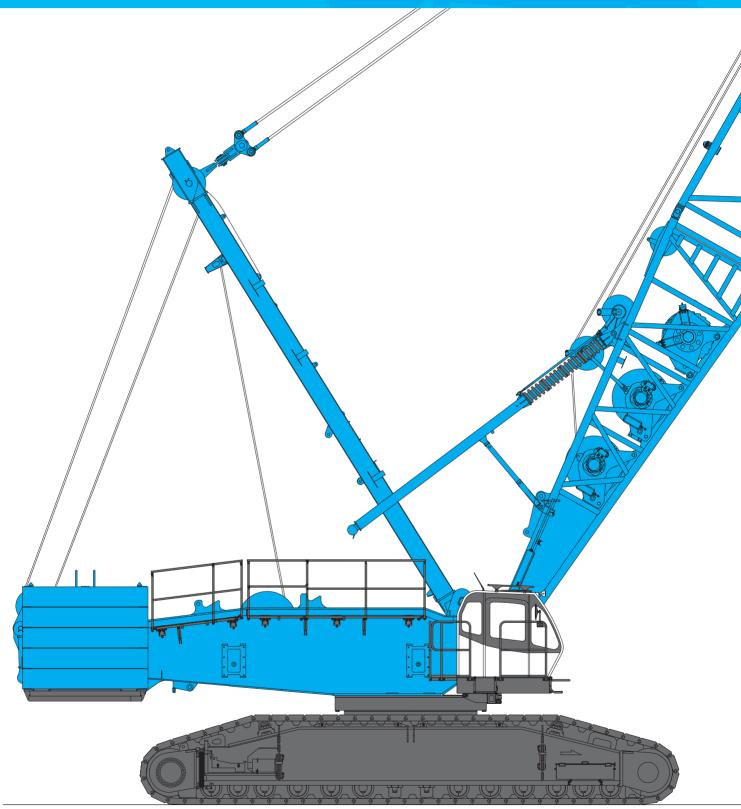




Model: SL4500



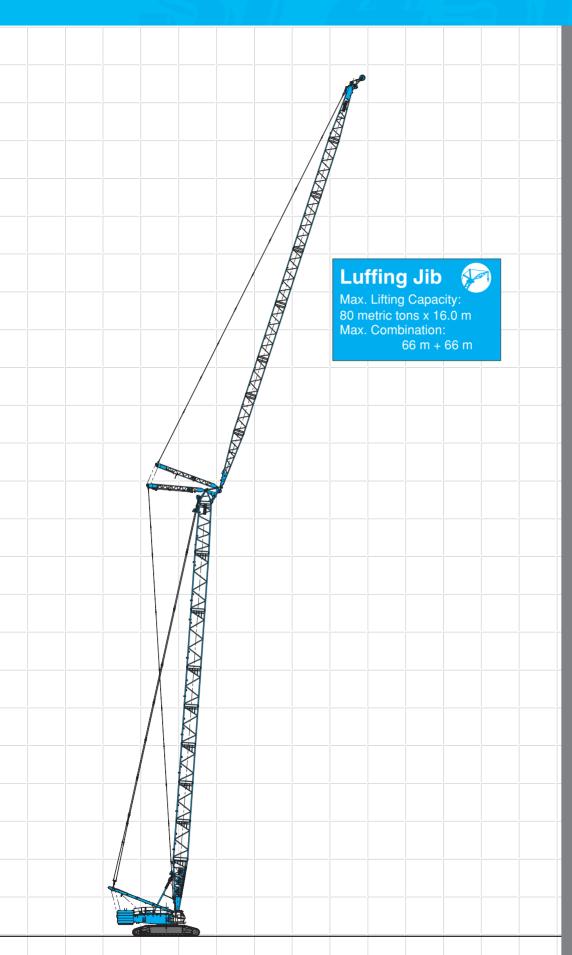
Max. Lifting Capacity: 300° ton x 6.0 m Max. Boom Length: 96 m Max. Luffing Jib Combination: 66 m + 66 m





CONFIGURATION





CONTENTS

Configuration	
Specifications	
General Dimensions	
Boom and Jib Arrangements ······	
Working Ranges	
Luffing Boom Supplemental Data ··········	1
Luffing Jib Supplemental Data ·········	1
Lifting Capacities	1
Luffing Boom Lifting Capacities	1
Long Boom Lifting Capacities ······	1
Luffing Jib Lifting Capacities ······	2
Transportation Plan	2
Assembly Disassembly	2
Parts and Attachments	2

SPECIFICATIONS



Power Plant

Model: Hino diesel engine E13C-UV

Type:Water-cooled, direct fuel injection, with turbocharger Complies with NRMM (Europe) Stage IIIA and US EPA Tier III.

Displacement: 12.913 liters Rated Power: 320 kW/2,000 min-1 Max. torque: 1,650 N·m/1,300 min-1

Cooling system: Liquid, recirculating bypass

Starter: 24 V/6 kW

Radiator: Corrugated type core, thermostatically controlled Air cleaner: Dry type with replaceable paper element Throttle: Twist grip type hand throttle, electrically actuated

Fuel filter: Replaceable paper element

Batteries: Two 12V x 136Ah/5HR capacity batteries, parallel

connected.

Fuel tank capacity: 600 liters



Hydraulic System

Six variable displacement piston pumps are driven by heavyduty pump drive. Two variable displacement pumps are used in H1 (main hook hoist) and left hand side propel circuit. Two variable displacement pumps are used in H2 (auxiliary hook hoist) and right hand side propel circuit. One of the other two pumps is used in W1 (boom), W2 (jib) hoist circuit, and the other is used in the swing circuit.

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

Max. relief valve pressure: 32.0 MPa {326 kgf/cm²}

Reservoir capacity: 710 liters



Boom Hoisting System

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

Drum lock: External ratchet for locking drum.

Drum: Double drum, grooved for 28 mm dia. wire rope.

Line speed: Double line on first drum layer Hoisting/Lowering: 40~2 m/min x 2

Boom hoist reeving: 28 parts of 28 mm dia.high strength

wire rope

Boom backstops: Required for all boom lengths



Load Hoist System

H1 and H2 drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.

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

Drum lock: External ratchet for locking drum.

Drums:

H1 and H2.

630 mm P.C.D. x 1,014 mm Lg. wide drum,

grooved for 28 mm wire rope. Rope capacity is 790 m working length.

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

Line speed: 110 ~ 3 m/min*1

Single line on the first layer

*1: Line speeds based on single line, no load and 5th layer

of rope drum.

Rated line pull: 137 kN {14.0 tf}



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (3 sets), the swing system provides 360° rotation.

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

Swing circle: Triple-row roller bearing with an integral internally cut swing gear.

Swing speed: 1.2 min⁻¹ {rpm}



Upper Structure

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



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:

Five adjustable levers for all winches and swing controls







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.

Crawler drive: Two 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.

Shoes (flat): 1,220 mm wide each crawler

Max. travel speed: 1.0/0.6 km/h

Max. gradeability: 20%



Weight

Including upper and lower machines, counterweights =120 ton, carbody weights =31 ton, 24 m luffing boom, and 180 t hook block.

Weight: 310 t

Ground pressure: 134 kPa {1.4 kgf/cm²}



Attachment

Boom and Jib:

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

Boom and Jib Length

Boom and Sib Length				
	Min. Length	Max. Length		
	(Min. Combination)	(Max. Combination)		
Luffing Boom				
Length	24 m 78 m			
Long Boom				
Length 48 m 96 m		96 m		
Luffing Jib				
Length	30 m + 24 m	66 m + 66 m		

Main Specifications (Model: SL4500)

Luffing Boom			
Max. Lifting Capacity	300 t x 6.0 m*1/180 t x 10.0 m		
Length	24 ~ 78 m		
Long Boom			
Max. Lifting Capacity	90 t x 14.0 m		
Length	48 ~ 96 m		
Luffing Jib			
Max. Lifting Capacity	80 t x 16.0 m		
Boom Length (Min. ~ Max.)	30 ~ 66 m		
Jib Length (Min. ~ Max.)	24 ~ 66 m		
Luffing Angle 66° ~ 86°			
Power Plant			
Model	Hino E13C-UV		
Engine Output	320 kW/2,000 min ⁻¹ {rpm}		
Fuel Tank Capacity	600 liters		
Hoist Winch (H1, H2)			
Max. Line Speed	110 m/min (1st layer)		
Rated Line Pull (Single line)	137 kN {14.0 tf}		
Wire Rope Diameter	28 mm		

Working Speed			
Swing	1.2 min ⁻¹ {rpm}		
Travel	1.0/0.6 km/h		
Hydraulic System			
Pumps	6 variable displacement		
Max. Pressure	32.0 MPa {326 kgf/cm ² }		
Hydraulic Tank Capacity	710 liters		
Weight			
Operating Weight*2	Approx. 310 t		
Ground Pressure*2	134 kPa {1.4 kgf/cm²}*2		
Countarwoight	Upper: 120 metric tons		
Counterweight	Lower: 31 metric tons		

^{*1:} equipped with Standard Boom Configuration (width 3.0 m boom) *2: Including upper and lower machines, counterweights (=120 ton),

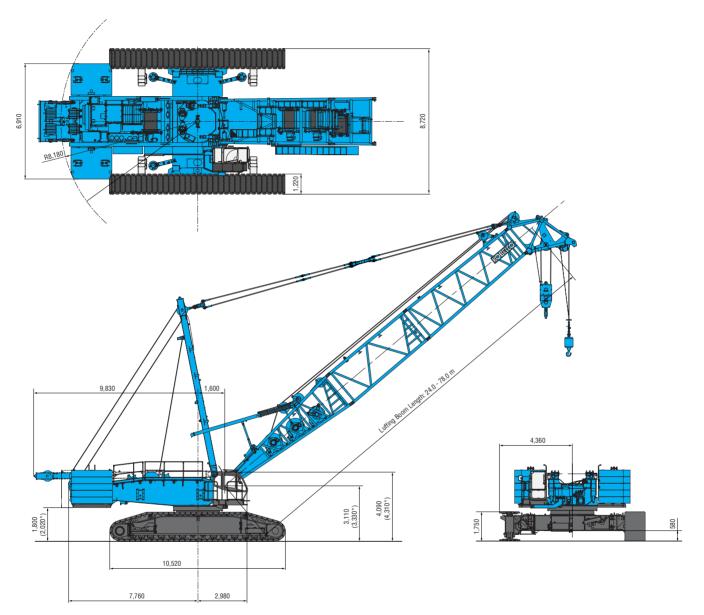
carbody weights (=31 ton), 24 m luffing boom, and 180 t hook block. Units are SI units. { } indicates conventional units.



GENERAL DIMENSIONS

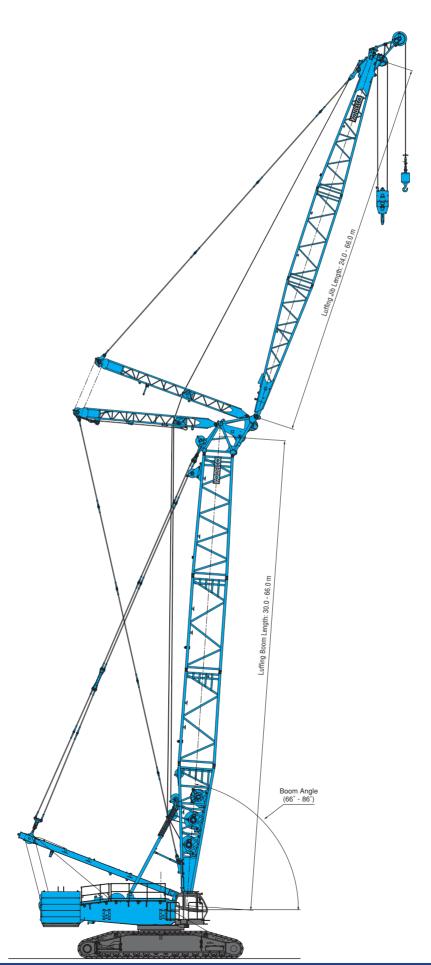
Luffing Boom

Unit: mm



(*) with quick connection device

Luffing Jib



Unit: mm

BOOM AND JIB ARRANGEMENTS

Luffing Boom Arrangements for Crane

	_
Boom length (m)	Boom arrangement
24 m	L 6.0T 7.8T Q
30 m	* L 6.0T 6.0 7.8T W
36 m	*L 6.0 6.0 7.8T Û
42 m	* L 6.0T 6.0 6.0 7.8T 0\ L 6.0T 9.0 9.0 7.8T 0\
48 m	*
54 m	★ L 6.0T 6.0 6.0 9.0 9.0 7.8T 0
60 m	* L 6.0T 6.0 6.0 9.0 9.0 7.8T U
66 m	* L 6.0T 6.0 6.0 6.0 6.0 9.0 9.0 7.8T U
72 m	★ L 6.0T 6.0 6.0 9.0 9.0 9.0 9.0 7.8T U
78 m	

Symbol	Boom Length	Remarks
	9.0 m	Boom Base
6.0T	6.0 m	Tapered Boom
7.8T	7.8 m	Tapered Boom (W: 2.5 m)
6.0	6.0 m	Insert Boom (W: 2.5 m)
9.0	9.0 m	Insert Boom (W: 2.5 m)
Ø	1.2 m	Boom Top

 $[\]ensuremath{\ensuremath{\%}}$ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Long Boom Arrangements

Boom length (m)	Boom arrangement
48 m	₩L[6.0T] 9.0 9.0 6LT] JU
54 m	*L 6.0T 6.0 9.0 9.0 6LT JU
60 m	
66 m	* L 6.0T 6.0 6.0 6.0 9.0 9.0 6LT JU L 6.0T 9.0 9.0 9.0 6LT JU
72 m	* L 6.0T 6.0 6.0 6.0 6.0 9.0 9.0 6LT JU
78 m	* L 6.0T 6.0 6.0 6.0 6.0 9.0 9.0 6LT 6.0 JU
84 m	* L 6.0T 6.0 6.0 6.0 6.0 9.0 9.0 6LT 6.0 6.0 JU
90 m	* L 6.0T 6.0 6.0 6.0 6.0 9.0 9.0 6LT 6.0 6.0 6.0 JU
96 m	* L 6.0T 6.0 6.0 6.0 6.0 9.0 9.0 6LT 6.0 6.0 6.0 6.0 JU

Symbol	Boom Length	Remarks
	9.0 m	Boom Base
6.0T	6.0 m	Tapered Boom
6.0	6.0 m	Insert Boom (W: 2.5 m)
9.0	9.0 m	Insert Boom (W: 2.5 m)
6LT	6.0 m	Long Tapered Boom (W: 2.5 m)
6.0	6.0 m	Luffing Insert Jib
9.0	9.0 m	Luffing Insert Jib
JU	9.0 m	Jib Top

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

Standard Boom Configuration (width 3.0 m Boom)

Boom length (m)	Boom arrangement
24m	L 6.0 7.8T Q

Symbol	Boom Length	Remarks
	9.0 m	Boom Base
7.8T	7.8 m	Tapered Boom (W: 3.0 m)
6.0	6.0 m	Insert Boom (W: 3.0 m)
0	1.2 m	Boom Top (W: 3.0 m)

Luffing Boom Arrangements for Luffing

Boom length (m)	Boom arrangement
30 m	* <u>L[6.07 6.0 7.87 0</u>]
36 m	* L 6.0T 6.0 6.0 7.8T U
42 m	\[\begin{align*} & \left[6.0T 6.0 6.0 6.0 7.8T 0 \\ \left[0.0T 9.0 9.0 7.8T 0 \\ \end{align*} \]
48 m	* L 6.0T 6.0 6.0 6.0 7.8T U
54 m	★ L 6.0T 6.0 6.0 9.0 9.0 7.8T 0
60 m	* L 6.0T 6.0 6.0 6.0 9.0 9.0 7.8T U
66 m	* L 6.0T 6.0 6.0 6.0 6.0 9.0 9.0 7.8T U

Symbol	Boom Length	Remarks
	9.0 m	Boom Base
6.0T	6.0 m	Tapered Boom
7.8T	7.8 m	Tapered Boom (W: 2.5 m)
6.0	6.0 m	Insert Boom (W: 2.5 m)
9.0	9.0 m	Insert Boom (W: 2.5 m)
(V)	1.2 m	Boom Top

^{*} indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Luffing Jib Arrangements

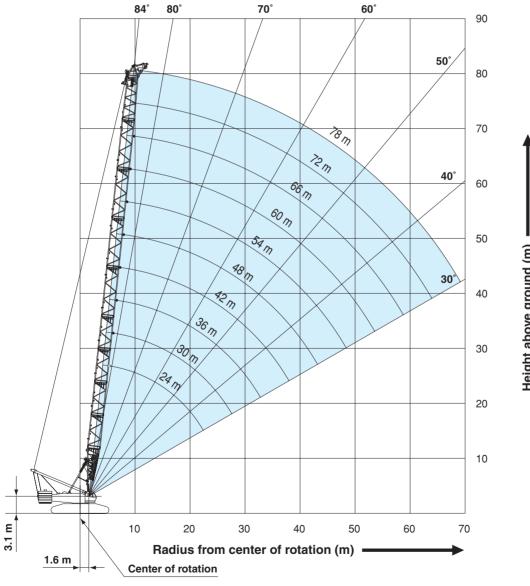
Jib length (m)	Jib arrangement
24 m	JL JU
30 m	* JL 6.0 1 6.0 JU
36 m	* JL 6.0 6.0 6.0 JU
42 m	* JL 6.0 6.0 6.0 6.0 JU
48 m	
54 m	* JL 6.0 6.0 6.0 9.0 9.0 JU
60 m	* JL 6.0 6.0 6.0 6.0 9.0 9.0 JU
66 m	

Symbol	Jib Length	Remarks
JL	9.0 m	Jib Base
6.0	6.0 m	Luffing Insert Jib
9.0	9.0 m	Luffing Insert Jib
JU	9.0 m	Jib Top

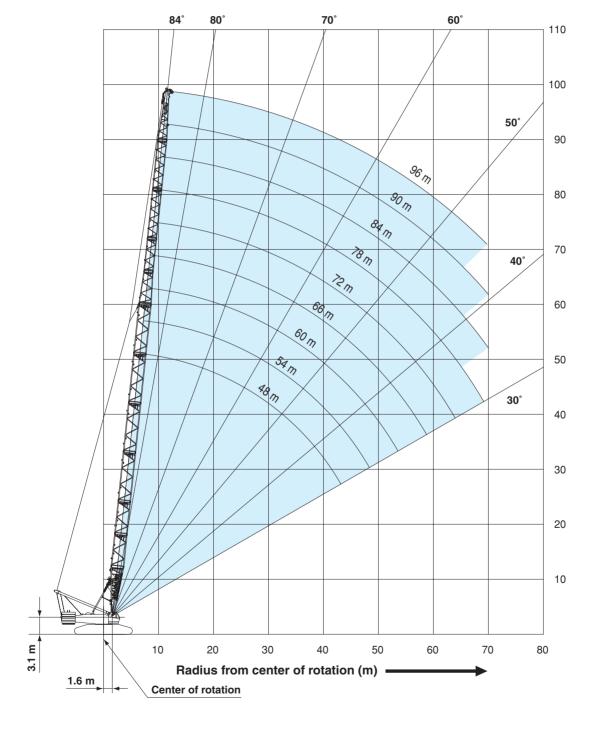
^{*} indicates the most flexible combination of insert luffing jibs, which can be modified to form all shorter luffing jib arrangements.

WORKING RANGES

Luffing Boom



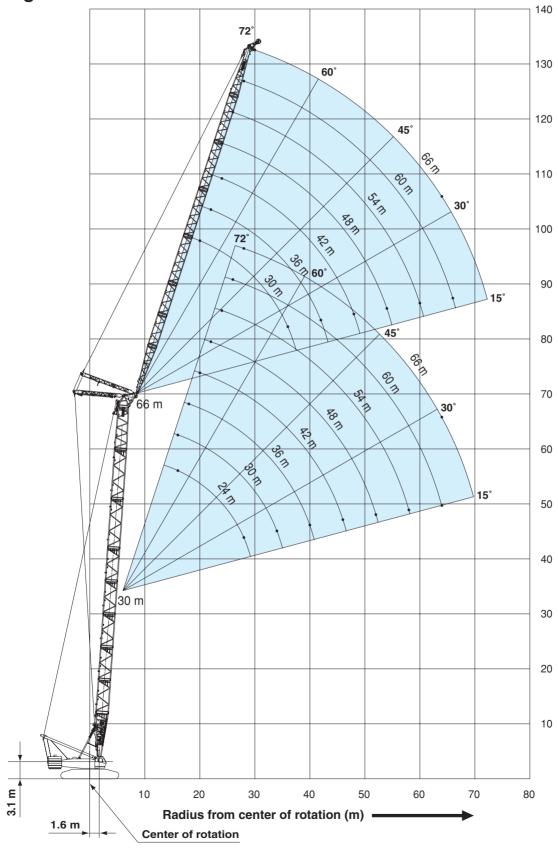
Long Boom



WORKING RANGES

Luffing Jib

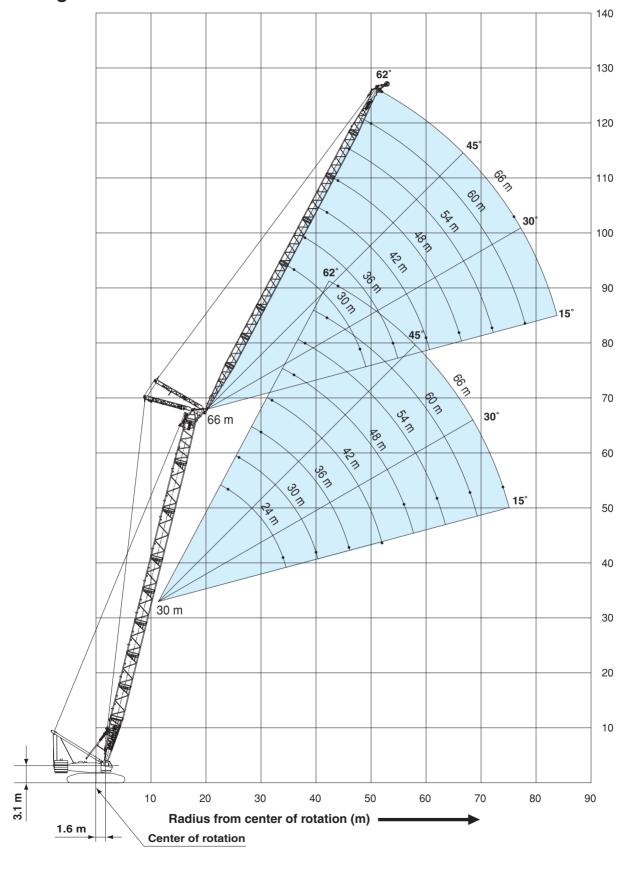
Boom Angle: 86°



BİGGE

Luffing Jib

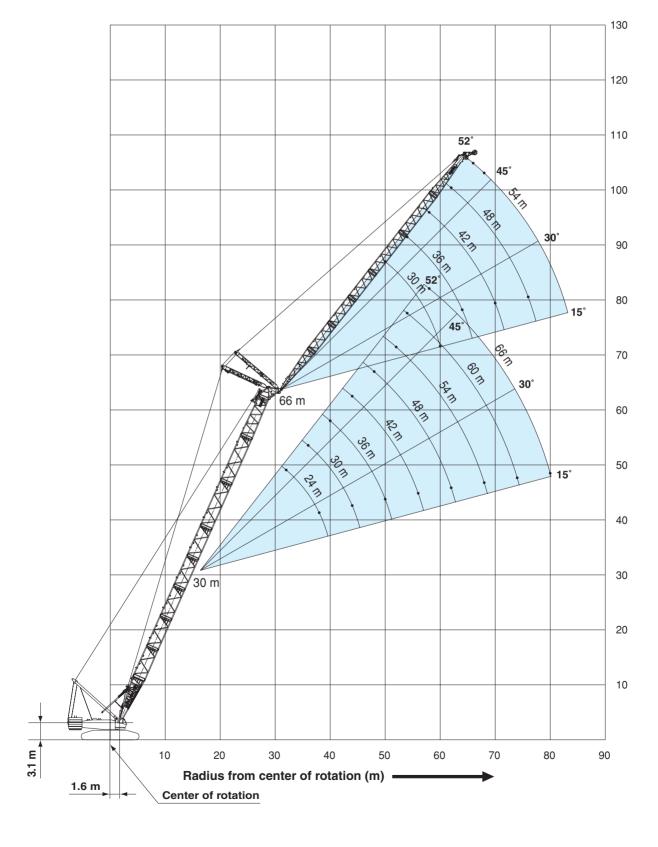
Boom Angle: 76°



WORKING RANGES

Luffing Jib

Boom Angle: 66°



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LUFFING BOOM SUPPLEMENTAL DATA

- 1. Raitings according to ASME code B30.5, EN13000.
- 2. Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- 3. Deduct weight of hook block(s), slings and all other load handling accessories from main boom ratings shown.
- 4. 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 load and operating speeds accordingly.
- 5. Ratings are for operation on a firm and level surface, up to 1 % gradient.
- 6. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- 7. Boom inserts and guy lines must be arranged as shown in the "OPERATOR'S MANUAL".
- 8. Boom hoist reeving is 28 part line.
- 9. Boom backstops are required for all boom lengths.
- 10. The boom should be erected over the front of the crawlers, not laterally.
- 11. Ratings inside of boxes _____ are limited by strength of materials.

12. (Luffing Boom Lifting)

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

13. (Luffing Boom Lifting with Auxiliary Sheave Frame)

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

Deduction auxiliary sheave frame			
Luffing Boom	Long		
_	1.2 ton		

14. (Auxiliary Sheave Lifting)

The total load that can be lifted is weight of auxiliary sheave frame, main hook block, slings, and all other load handling accessories deducted from main boom ratings shown, but it should not exceed 14 ton.

- 15. Auxiliary sheave ratings at any radius from center of rotation are the same as crane ratings shown in table for luffing boom when operated at the same radius. But maximum angle is the same main boom maximum angle.
- 16. Boom lengths for auxiliary sheave mounting show below.

Luffing Boom	Long Boom
24 m ~ 78 m	48 m ~ 96 m

17. Maximum hoist load for number of reeving parts of line for hoist rope.

Main Hoist Loads (Single Drum)

Main Hoist Loads (Single Drum)								
1	2	3	4	5				
137	275	412	549	686				
14.0	28.0	42.0	56.0	70.0				
6	7	8	9	10				
824	961	1098	1236	1373				
84.0	98.0	112.0	126.0	140.0				
11	12	13	14					
1491	1608	1706	1765					
152.0	164.0	174.0	180.0					
	1 137 14.0 6 824 84.0	1 2 137 275 14.0 28.0 6 7 824 961 84.0 98.0 11 12 1491 1608	1 2 3 137 275 412 14.0 28.0 42.0 6 7 8 824 961 1098 84.0 98.0 112.0 11 12 13 1491 1608 1706	1 2 3 4 137 275 412 549 14.0 28.0 42.0 56.0 6 7 8 9 824 961 1098 1236 84.0 98.0 112.0 126.0 11 12 13 14 1491 1608 1706 1765				

Auxiliary Hoist Loads

No. of Parts of Line	1
Maximum Loads (kN)	137
Maximum Loads (t)	14.0

18. Weight of hook block

	Weight of hook block								
Hook block	180 ton	120 ton	70 ton	40 ton	14.0 ton Ball hook				
Weight (t)	3.10	3.50	3.10	2.00	0.90				

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LUFFING JIB SUPPLEMENTAL DATA

- 1. Ratings according to ASME code B30.5, EN13000.
- 2. Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- 3. Deduct weight of hook block(s), slings and all other load handling accessories from luffing jib ratings shown.
- 4. 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 load and operating speeds accordingly.
- 5. Ratings are for operation on a firm and level surface, up to 1 % gradient.
- 6. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- 7. Boom and jib inserts and guy lines must be arranged as shown in the "OPERATOR'S MANUAL".
- 8. Boom hoist reeving is 28 part line.
- 9. Boom and jib backstops are required for all boom lengths.
- 10. The boom should be erected over the front of crawlers, not laterally.

11. Ratings inside of boxes are limited by strength of materials.

12. (Luffing Jib Rating Loads)

The total load that can be lifted is the value for weight of hook block, slings, and all other loads handling accessories deducted from luffing jib ratings shown.

13. (Luffing Jib Lifting with Auxiliary Hook)

The total load that can be lifted is the value for 0.9 ton (Auxiliary hook) the weight of hook block, slings, and all other loads handling accessories deducted from luffing jib ratings shown.

14. (Auxiliary Hook Lifting)

The total load that can be lifted over an auxiliary hook is the value for 0.9 ton (auxiliary hook), weight of main hook block, slings, and all other loads handling accessories deducted from luffing jib ratings shown, but it should not exceed 14.0 ton.

Boom and jib combinations for auxiliary sheave mounting are all boom and jib combinations.

Auxiliary sheave ratings at any radius from center of rotation are the same as luffing ratings shown in table for jib when operated at the same radius.

But maximum angle is the same jib maximum angle.

15. Luffing boom and jib combinations.

			Jib Length (m)							
		24 m	30 m	36 m	42 m	48 m	54 m	60 m	66 m	
	30 m	0	0	0	0	0	0	0	0	
Œ	36 m	0	0	0	0	0	0	0	0	
gth	42 m	0	0	0	0	0	0	0	0	
Length	48 m	0	0	0	0	0	0	0	0	
E	54 m	×	0	0	0	0	0	0	0	
Boom	60 m	×	0	0	0	0	0	0	0	
	66 m	×	0	0	0	0	0	0	0	

: All luffing jib combinations which is none

: All luffing jib combinations which is allowed.

16. Maximum hoist load for number of reeving parts of line for hoist rope.

For Jib Hook (Single Drum)

		. *			
No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	137	275	412	549	686
Maximum Loads (t)	14.0	28.0	42.0	56.0	70.0

No. of Parts of Line	6
Maximum Loads (kN)	784
Maximum Loads (t)	80.0

For Auxiliary Sheave

No. of Parts of Line	1
Maximum Loads (kN)	137
Maximum Loads (t)	14.0

	We	ight of hook bl	ock	
Hook block	120 ton	70 ton	40 ton	14.0 ton Ball Hook
Weight (t)	3.50	3.10	2.00	0.90

17. Maximum numbers of reeving parts of line for hoist rope luffing boom and jib combinations.

STD Luffing Jib

		9							
					Jib Len	gth (m)			
		24	30	36	42	48	54	60	66
(E)	30	6	6	5	5	4	3	2	2
ے	36	6	5	5	4	4	3	2	2
ength	42	6	6	5	4	4	3	2	2
e-	48	6	5	5	4	4	3	2	2
'n	54	×	6	5	4	4	3	2	2
Boom	60	×	5	4	4	4	3	2	2
ď	66	×	4	4	3	3	3	2	2

 $[\]times$: Combinations which is none allowed.

18. Luffing erection jib offset angle

STD Luffing Erection Jib Offset Angle

(Unit: degrees)

Boom Length (m)				Jib Len	gth (m)			
Boom Length (III)	24 m	30 m	36 m	42 m	48 m	54 m	60 m	66 m
30 m	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110
36 m	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110
42 m	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	60 ~ 110	60 ~ 110
48 m	40 ~ 110	40 ~ 110	40 ~ 110	40 ~ 110	60 ~ 110	70 ~ 110	80 ~ 110	80 ~ 110
54 m	×	60 ~ 110	70 ~ 110	80 ~ 110	90 ~ 110	90 ~ 110	90 ~ 110	90 ~ 110
60 m	×	% 50 ~ 110	% 70 ~ 110	% 80 ~ 110	% 80 ~ 110	※ 90 ~ 110	※ 90 ~ 110	※ 90 ~ 110
66 m	×	% 80 ~ 110	%110	%110	%110	%110	※110	※110

 $[\]times$: All Luffing jib combinations which is none.



 $[\]ensuremath{\text{\%}}\xspace$. Need the blocks for erection when erecting and lowering.

LIFTING CAPACITIES





Luffing Boom Lifting Capacities

Unit: ton

Counterweight:	120 ton	Carbody	weiaht:	31	ton
Ocument Weight.	120 (011)	, Carboay	wcigiit.	0.	COLL

Boom Length Working (m) Radius (m)	24.0*	24.0	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0	78.0	Boom Length (m) Working Radius (m)
5.0	5.5 m/300.0	5.5 m/180.0										5.0
6.0	300.0	180.0	6.1 m/180.0	6.7 m/180.0								6.0
7.0	300.0	180.0	180.0	180.0	7.3 m/180.0							7.0
8.0	267.6	180.0	180.0	180.0	180.0	173.6	8.6 m/149.0					8.0
9.0	230.4	180.0	180.0	180.0	180.0	169.1	147.1	9.2 m/128.2	9.8 m/110.6			9.0
10.0	196.4	180.0	180.0	180.0	180.0	164.0	143.1	125.3	110.0	10.5 m/96.3	11.1 m/84.2	10.0
12.0	145.6	157.7	157.5	157.0	149.9	144.2	135.6	119.4	105.0	92.9	82.5	12.0
14.0	114.7	124.9	124.9	124.7	124.3	121.1	115.4	110.8	100.3	88.9	78.9	14.0
16.0	94.0	102.8	102.8	102.5	102.0	102.4	99.2	95.4	91.7	84.7	75.0	16.0
18.0	78.9	86.9	86.8	86.5	86.0	86.4	85.3	83.3	80.2	77.3	70.9	18.0
20.0	67.7	74.9	74.8	74.4	73.9	74.2	73.2	72.7	70.9	68.4	66.1	20.0
22.0	59.1	65.5	65.5	65.1	64.5	64.8	63.7	63.2	62.9	61.0	59.0	22.0
24.0	23.1 m/55.1	23.0 m/61.5	57.9	57.5	56.9	57.2	56.1	55.6	55.3	54.8	53.0	24.0
26.0			51.8	51.4	50.8	51.0	49.9	49.4	49.0	48.6	47.8	26.0
28.0			46.7	46.2	45.6	45.8	44.7	44.2	43.8	43.4	42.9	28.0
30.0			28.2 m/46.2	41.9	41.2	41.4	40.3	39.8	39.4	38.9	38.5	30.0
32.0				38.2	37.5	37.7	36.6	36.0	35.6	35.1	34.6	32.0
34.0				33.4 m/35.9	34.3	34.4	33.3	32.7	32.3	31.8	31.3	34.0
36.0					31.5	31.6	30.5	29.8	29.4	29.0	28.4	36.0
38.0					29.1	29.1	28.0	27.3	26.8	26.4	25.9	38.0
40.0					38.6 m/28.3	26.9	25.7	25.1	24.6	24.1	23.6	40.0
44.0						43.8 m/23.4	22.0	21.3	20.8	20.3	19.8	44.0
48.0							19.0	18.2	17.7	17.2	16.6	48.0
52.0							49.0 m/18.3	15.7	15.0	14.4	13.7	52.0
56.0								54.2 m/14.5	12.7	12.0	11.3	56.0
60.0									59.4 m/11.0	10.0	9.2	60.0
64.0										8.2	7.3	64.0
68.0										64.6 m/7.9	5.7	68.0
72.0											69.8 m/5.0	72.0
Reeves	28	14	14	14	14	13	11	10	8	7	7	Reeves

Note: Designed and rated to ASME code B30.5, EN13000.

Ratings shown in _____ are determined by the strength of the boom or other structural components. Ratings enclosed in gray-color box in the table require double-drum specifications.

* with Standard Boom Configuration (width 3.0 m Boom)

Long Boom Lifting Capacities

Unit: ton

Counterweight: 120 ton, Carbody weight: 31 ton

									, ,	
Boom Length Working (m) Radius (m)	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0	96.0	Boom Length (m) Working Radius (m)
7.0	7.2 m/90.0	7.9 m/90.0								7.0
8.0	90.0	90.0	8.5 m/90.0							8.0
9.0	90.0	90.0	90.0	9.1 m /90.0	9.8 m /90.0					9.0
10.0	90.0	90.0	90.0	90.0	90.0	10.4 m /90.0	11.0 m /75.7	11.7 m /63.7		10.0
12.0	90.0	90.0	90.0	84.7	90.0	88.0	74.5	63.3	12.2 m /53.3	12.0
14.0	90.0	89.9	82.9	75.3	90.0	85.5	72.4	61.6	51.9	14.0
16.0	88.1	81.1	74.5	67.4	85.4	80.8	70.6	60.0	50.4	16.0
18.0	80.3	73.6	67.4	60.7	79.3	76.1	67.6	58.6	49.1	18.0
20.0	73.5	67.2	61.4	55.1	73.2	71.2	63.8	56.5	47.9	20.0
22.0	67.8	61.6	56.0	50.0	65.8	64.1	60.2	51.4	45.4	22.0
24.0	61.4	56.6	51.4	45.7	59.0	58.1	55.6	47.1	41.5	24.0
26.0	55.2	52.3	47.3	42.0	52.7	52.5	51.4	43.4	38.3	26.0
28.0	50.0	48.1	43.5	38.6	47.5	47.2	47.2	40.3	35.5	28.0
30.0	45.6	44.1	40.4	35.4	43.0	42.8	42.7	37.6	33.1	30.0
32.0	41.8	40.5	37.3	32.7	39.2	39.0	38.9	35.3	31.0	32.0
34.0	38.6	37.4	34.4	30.3	35.9	35.7	35.6	33.2	29.2	34.0
36.0	35.7	34.6	31.8	28.1	33.0	32.8	32.7	31.3	27.5	36.0
38.0	33.2	32.0	29.4	25.9	30.5	30.2	30.1	29.7	26.0	38.0
40.0	31.0	29.7	27.3	24.1	28.2	27.9	27.8	27.9	24.7	40.0
44.0	43.5 m /27.6	25.7	23.5	20.8	24.3	24.1	24.0	24.0	22.5	44.0
48.0		22.3	20.3	17.8	21.2	20.9	20.8	20.8	19.9	48.0
52.0		48.7 m /21.7	17.6	15.3	18.6	18.3	18.2	18.2	16.6	52.0
56.0			53.9 m /16.4	13.1	16.4	16.1	16.0	15.4	13.4	56.0
60.0				59.1 m /11.6	14.6	14.2	14.1	12.7	10.7	60.0
64.0					13.0	12.6	12.4	10.2	8.3	64.0
68.0					64.3 m /12.9	11.2	10.6	8.0	6.0	68.0
72.0						69.5 m /10.7	8.5	5.9	3.9	72.0
76.0							74.7 m /7.2	4.1		76.0

Note: Designed and rated to ASME code B30.5, EN13000.

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



Reeves



Luffing Jib Lifting Capacity

Unit: ton

Counterweight: 120 ton, Carbody weight: 31 ton

ω	Boo	m length (m)								30.0								Boom length	n (m)
30.0 m	Jib	length (m)		24.0			30.0			36.0			54.0			66.0		Jib length	(m)
m	Вс	om angle	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	Boom and	gle
Boom Length		16.0	80.0			73.0												16.0	
m		18.0	72.5			68.4			63.7									18.0	
Le		20.0	64.0			63.3			59.9									20.0	
ngt		22.0	57.2			56.1			55.5									22.0	
7		24.0	51.8	62.2		50.3			49.5			34.2						24.0	
		26.0	46.1	56.0		45.6	55.6		44.5			33.3						26.0	
		28.0	37.6	50.9		41.7	50.5		40.4			32.4			19.8			28.0	
	ء ا	30.0		46.5	32.0 m/39.8	37.4	46.1		36.9	45.7		31.6			19.2			30.0	_ <
	Working Radius (m)	34.0		38.2	36.8	27.4	39.3	36.0 m/33.6	30.8	38.9		27.0			17.9			34.0	Working Radius (m)
	텵	38.0			31.8		32.9	31.4	24.5	33.1	40.0 m/28.9	22.3	32.5		16.9			38.0	ing
	g	42.0					40.0 m/28.3	27.5	40.0 m/20.9	27.5	27.1	18.6	27.2		15.5	44.0 m/18.1		42.0	Rad
	휻	46.0						44.0 m/25.9		21.8	24.0	15.7	22.9		12.7	17.0		46.0	ü
	§∟	50.0									21.5	13.3	19.5	52.0 m/19.1	10.1	15.2		50.0	Ĵ 🖹 📙
		54.0										11.4	16.8	18.1	8.1	13.6		54.0	
		58.0										9.9	14.3	16.4	6.3	12.3	14.1	58.0	
		62.0											11.6	14.8	4.9	10.3	12.7	62.0	
		66.0												13.3	64.0 m/4.3	7.8	11.5	66.0	_
		70.0												68.0 m/12.5		5.8	10.4	70.0	
		74.0														4.1	9.5	74.0	
		78.0															6.6	78.0	
		82.0															80.0 m/5.3	82.0	
		Reeves		6			6			5			3			2		Reeves	

ω	Boo	om length (m)								36.0								Boom length	ı (m)
6.0	Jil	b length (m)		24.0			30.0			36.0			54.0			66.0		Jib length	(m)
36.0 m Boom Length	В	oom angle	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	Boom ang	јlе
80		16.0	80.0															16.0	
Ĭ		18.0	75.2			68.9												18.0	
Fe		20.0	69.3			64.8			60.7									20.0	
ngt		22.0	61.6			60.7			57.3									22.0	
		24.0	54.5			54.2			53.4			34.3						24.0]
		26.0	47.5	54.8		48.3			47.8			33.4						26.0	
		28.0	39.6	49.8		42.7	49.3		42.9			32.5			19.9			28.0	
	_	30.0		45.5		38.1	45.0		38.3	32.0 m/41.0		31.7			19.2			30.0	_ <
	Radius (m)	34.0		38.7	36.0 m/32.6	28.7	38.3		31.3	37.9		29.1			18.0			34.0	Working Radius
	ij	38.0		36.0 m/35.7	30.4		33.1	29.9	25.3	32.8		24.0	40.0 m/29.5		16.9			38.0	ing
	B.	42.0			26.6		40.0 m/31.0	26.2	40.0 m/21.7	28.8	25.7	20.0	27.6		15.7			42.0	Rac
	Ē,	46.0						23.2		24.5	22.9	16.8	24.3		13.7	17.7		46.0] iii
	Working	50.0									20.4	14.1	20.6		11.0	15.8		50.0	(€
		54.0									52.0 m/19.3	12.0	17.6	17.0	8.7	14.1		54.0	
		58.0										10.3	15.2	15.3	6.8	12.7	60.0 m/14.0	58.0	
		62.0											12.7	13.9	5.2	11.5	13.3	62.0	
		66.0											64.0 m/11.3	12.6	64.0 m/4.5	8.8	12.0	66.0]
		70.0												11.5		6.4	10.8	70.0	
		74.0														4.5	9.8	74.0	1
		78.0														76.0 m/3.6	8.1	78.0	
		82.0															5.1	82.0	
		Reeves		6	·		5			5			3			2		Reeves	

Note: Designed and rated to ASME code B30.5, EN13000.

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

Bigge

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LIFTING CAPACITIES



Luffing Jib Lifting Capacity

Unit: ton

Counterweight: 120 ton, Carbody weight: 31 ton

4.	Boo	om length (m)								42.0								Boom length	(m)
2.0	Jil	b length (m)		24.0			30.0			36.0			54.0			66.0		Jib length ((m)
3	В	oom angle	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	Boom ang	jle
Вос		16.0	80.0															16.0	
Ħ		18.0	76.2			70.3												18.0	
Lei		20.0	72.0			66.1			61.4									20.0	
42.0 m Boom Length		22.0	65.2			62.4			58.0									22.0	
5		24.0	56.0			56.8			54.9									24.0	
		26.0	48.7			49.5			49.7			33.5						26.0	
		28.0	41.4	48.5		43.7			43.9			32.6			20.0			28.0	
	Ξ	30.0	32.7	44.3		38.9	43.8		39.1	32.0 m/39.8		31.8			19.3			30.0	8
	Working Radius (m)	34.0		37.7		29.8	37.2		31.8	36.8		30.3			18.1			34.0	Working Radius (m)
	Bad	38.0		36.0 m/35.0	28.9	36.0 m/24.2	32.2		26.1	31.8		25.3			17.0			38.0	, g
	in g	42.0			25.3		28.3	24.7	40.0 m/22.5	27.9	44.0 m/22.7	21.0	26.7		15.8			42.0	⊒ adi
	충	46.0			44.0 m/23.8			21.9		24.7	21.4	17.6	23.5		14.1	18.5		46.0	S S
	>	50.0						19.6		48.0 m/23.4	19.1	14.8	21.0		11.6	16.4		50.0] =
		54.0									17.2	12.5	18.5	56.0 m/15.0	-	14.7		54.0	4
		58.0									56.0 m/16.4	10.6	16.0	14.2	7.1	13.2		58.0	
		62.0											13.8	12.8	5.4		64.0 m/11.5	62.0	4
		66.0											10.7	11.5	64.0 m/4.6	9.8	10.9	66.0	
		70.0												10.6		7.1	9.7	70.0	
		74.0												72.0 m/10.1		4.9	8.8	74.0	1
		78.0														3.0	7.9	78.0	4
		82.0															6.3	82.0	
		86.0															84.0 m/4.8	86.0	4
		Reeves		6			6			5			3			2		Reeves	

4:	Boo	om length (m)								48.0								Boom length	(m)
48.0	Jil	length (m)		24.0			30.0			36.0			54.0			66.0		Jib length ((m)
3	В	oom angle	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	Boom ang	le
Boom Length		16.0	80.0															16.0	
ğ		18.0	77.2			68.0												18.0	
<u>E</u>		20.0	72.8			66.9			60.9									20.0	
ngt		22.0	67.5			63.1			58.6									22.0	
5		24.0	57.6			58.4			55.5									24.0	
		26.0	49.9			50.8			51.0			33.7						26.0	
		28.0	43.2	47.1		44.7			44.8			32.8						28.0]
	ے	30.0	34.7	43.0		39.7	32.0 m/39.0		39.9			31.9			19.4			30.0	_ <u>_</u>
	Working Radius (m)	34.0		36.6		30.9	36.1		32.3	35.6		30.4			18.2			34.0	Working Radius (m)
	ij	38.0		31.6	40.0 m/25.3	36.0 m/25.5	31.2		26.7	30.7		26.3			17.1			38.0	ing
	E I	42.0			23.7		27.3	44.0 m/21.7	19.4	26.9		21.8	25.7		16.0			42.0	Rac
	Ē,	46.0			21.0		44.0 m/25.7	20.4		23.8	48.0 m/18.8	18.2	22.6		14.2	48.0 m/18.1		46.0	l iii
	١٥	50.0						18.2		21.3	17.7	15.3	20.1		12.1	17.1		50.0	E
		54.0						52.0 m/17.3			15.9	12.8	18.0		9.5	15.2		54.0	
		58.0									14.4	10.8	16.2	12.8	7.3	13.7		58.0]
		62.0											14.5	11.4	5.5	12.3		62.0	
		66.0											11.5	10.2	4.0	10.8	9.6	66.0]
		70.0											68.0 m/10.0	9.2		7.8	8.5	70.0	
		74.0												8.3		5.3	7.6	74.0]
		78.0												76.0 m/7.9		3.2	6.7	78.0	
		82.0															5.9	82.0]
		86.0															4.4	86.0	
		Reeves		6			5			5			3			2		Reeves	

Note: Designed and rated to ASME code B30.5, EN13000.

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

Bigge



Luffing Jib Lifting Capacity

Unit: ton

Counterweight: 120 ton, Carbody weight: 31 ton

Ω	Воо	m length (m)								54.0								Boom length	ı (m)
4.0	Jib	length (m)		30.0			36.0			48.0			54.0			66.0		Jib length ((m)
ш	В	oom angle	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	Boom ang	Jle
800		18.0	72.2															18.0	
ĭ		20.0	67.8			63.0												20.0	
Le		22.0	63.9			59.4												22.0	
54.0 m Boom Length		24.0	59.2			56.1			45.3									24.0	
_		26.0	52.1			52.3			44.2			33.8						26.0	
		28.0	45.7			45.9			43.2			32.9						28.0	
		30.0	40.5	32.0 m/37.5		40.7			41.6			32.0			19.5			30.0	
	_ [34.0	32.0	34.8		32.8	36.0 m/31.8		33.4			30.5			18.3			34.0	
	Œ)	38.0	36.0 m/26.7	30.0		27.1	29.6		27.6			27.1			17.1			38.0	Working Radius (m)
	Radius	42.0		26.3		20.2	25.9		23.1	25.1		22.5	44.0 m/22.7		16.1			42.0] ĝ
	<u> </u>	46.0		23.3	18.9		22.9		19.6	22.2		18.7	21.5		14.4			46.0	ᄝ
	Ē, [50.0			16.8		20.4	16.2	16.6	19.8		15.7	19.2		12.6	17.6		50.0	gi.
	Working	54.0			15.1		52.0 m/19.4	14.4	12.5	17.7		13.1	17.2		9.9	15.8		54.0	Ē
		58.0						12.9		16.0	12.0	11.0	15.5	60.0 m/10.5	7.5	14.2		58.0	
	L	62.0						60.0 m/12.3		14.5	10.7	60.0 m/9.6	14.0	9.9	5.6	12.7		62.0	
		66.0									9.6		12.3	8.8	64.0 m/4.7	11.5	68.0 m/7.6	66.0	
	L	70.0									8.6		68.0 m/10.7	7.8		8.4	7.1	70.0]
		74.0									72.0 m/8.2			6.9		5.7	6.2	74.0	
		78.0												6.2		3.4	5.4	78.0]
		82.0															4.7	82.0	
		86.0															84.0 m/4.3	86.0]
		Reeves		6			5			4			3			2		Reeves	

6	Boom length (m)		60.0														Boom length (m)		
60.0	Jik	length (m)		30.0			36.0			48.0		54.0			66.0			Jib length (m)	
3	В	oom angle	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	Boom ang	gle
Boom Length		18.0	65.1															18.0	
ğ		20.0	59.7			55.2												20.0	
Fe		22.0	55.0			53.1												22.0	
ngt		24.0	50.9			50.1			45.0									24.0	
		26.0	47.2			46.6			43.7			33.9						26.0	
		28.0	43.5			43.4			41.7			33.0						28.0	
] چ	30.0	40.3			40.3			39.0			32.1			19.6			30.0	_<
	E)	34.0	33.5	32.8		33.9			33.1			30.6			18.4			34.0	Working
	Radius	38.0	36.0 m/28.2	29.1		27.9	28.1		27.7			26.6			17.2			38.0	ing
	g.	42.0		25.4		21.3	25.0		23.4	23.2		22.2			16.2			42.0	Radius
	Ē, [46.0		22.5	48.0 m/16.2		22.1		19.8	20.9		18.6	19.8		14.5			46.0] us
	Working	50.0			15.3		19.7	52.0 m/13.8	16.8	18.8		15.5	17.9		12.9	52.0 m/15.2		50.0	Ē
		54.0			13.6		52.0 m/18.7	13.0	12.9	16.9		13.0	16.2		10.1	14.4		54.0	
		58.0			56.0 m/12.8			11.6		15.2	60.0 m/9.7	10.8	14.6		7.7	13.4		58.0	
		62.0						10.4		13.8	9.1	60.0 m/9.8	13.2	64.0 m/7.6	5.6	12.2		62.0	
		66.0								64.0 m/13.1	8.0		12.0	7.1	64.0 m/4.7	11.1		66.0	
		70.0									7.1		9.6	6.2		9.0	5.5	70.0	
		74.0									6.3			5.4		6.1	72.0 m/5.1	74.0	
		78.0												4.7		3.7		78.0	
		Reeves		5			4			4			3			2		Reeves	

Note: Designed and rated to ASME code B30.5, EN13000.

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

BİGGE

LIFTING CAPACITIES



Luffing Jib Lifting Capacity

Counterweight: 120 ton, Carbody weight: 31 ton

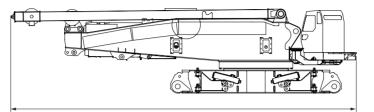
စ္က	Boo	om length (m)		66.0														Boom length (m)	
3.O	Jik	length (m)		30.0			36.0			48.0		54.0			66.0			Jib length ((m)
B	Boom angle		86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	86°	76°	66°	Boom ang	gle
80		20.0	48.5															20.0	
66.0 m Boom Length		22.0	44.1			43.8												22.0	
		24.0	40.3			40.1			38.8									24.0	
		26.0	37.0			36.8			35.7			31.5						26.0	
-		28.0	34.1			33.9			32.9			30.7						28.0	
		30.0	31.5			31.4			30.5			29.9			19.7			30.0	
	ء [34.0	27.1	36.0 m/28.5		27.1			26.4			26.0			18.4			34.0	_ ≤
	Œ)	38.0	36.0 m/25.2	26.9		23.6	26.2		23.1			22.7			17.3			38.0	Working
	Working Radius	42.0		24.4		20.7	23.4		20.3	44.0 m/20.1		19.9			16.2			42.0	
	g	46.0		21.7			21.2		18.0	19.1		16.7	18.0		14.3			46.0	Radius
	<u> </u>	50.0		48.0 m/20.5	13.6		19.0		15.3	17.2		14.0	16.2		11.6	52.0 m/13.6		50.0	_ iiis
	اً ﴿	54.0			12.0		17.0	11.4	13.0	15.6		11.7	14.6		9.2	13.3		54.0	€
		58.0			10.7			10.0		14.2		9.7	13.6		7.1	12.0		58.0	
		62.0			60.0 m/10.1			8.9		13.2	7.5	60.0 m/8.8	12.5		5.3	10.8		62.0	
		66.0						64.0 m/8.4		12.0	6.6		11.3	5.7	64.0 m/4.5	9.8		66.0	
		70.0									5.7		10.0	68.0 m/5.3		8.9		70.0	
		74.0									5.0		72.0 m/8.4			6.4		74.0	
		78.0									76.0 m/4.7					76.0 m/5.0		78.0	
		Reeves		4			4			3			3			2		Reeves	

TRANSPORTATION PLAN

Base Machine

Base machine (1)

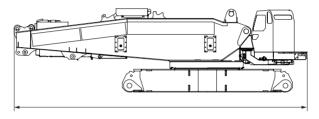
Base machine with mast and lower translifter without upper/lower connecting devices.



Weight 59.2 ton Width 2.99 m Height 3.4 m (Machine) Length 13.85 m

Base machine (2)

Base machine without mast, lower translifter and upper/lower connecting devices.

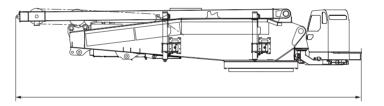


Weight 45.0 ton Width 2.99 m Height 3.4 m (Machine) Length 11.8 m

Upper Structure

Upper Structure (1)

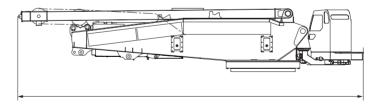
Upper structure with mast, upper translifter, and upper connecting devices.



Weight 44.6 ton Width 3.48 m Height 2.54 m (Machine) Length 13.85 m

Upper Structure (2)

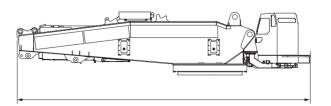
Upper structure with mast, and upper connecting devices.



Weight 42.2 ton Width 2.99 m Height 2.54 m (Machine) Length 13.85 m

Upper Structure (3)

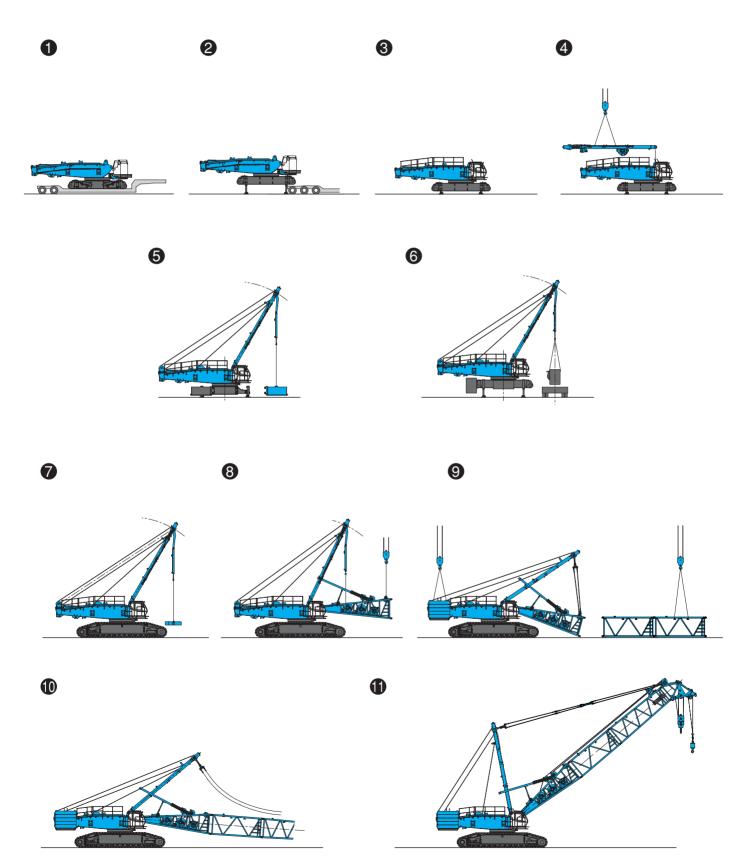
Upper structure and upper connecting devices without mast and upper translifter.



Weight 30.2 ton Width 2.99 m Height 2.54 m (Machine) Length 11.8 m

ASSEMBLY DISASSEMBLY

SELF-ERECTION SYSTEM



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2,780

2,680

Dimensions: mm Weight: ton **Light Configuration**

Luffing Boom Top

4,790

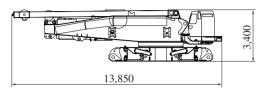
Weight: 4.4 ton

PARTS AND ATTACHMENTS

Base Machine

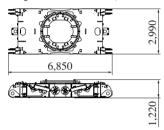
With mast and lower translifter without upper/lower connecting devices.

Weight: 59.2 ton Width: 2,990 mm



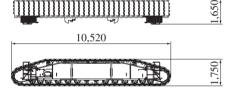
Carbody

With upper/lower connecting devices. Weight: 20.0 ton Width: 2,990 mm



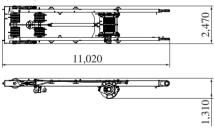
Crawler

Weight: 30.5 ton Width: 1,650 mm



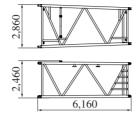
Crane Mast

Weight: 11.9 ton (with optional self-assembly cylinder)



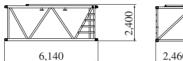
6 m Light Configuration Tapered Boom

Weight: 1.9 ton



6 m Light Configuration Insert Boom

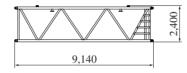
Weight: 1.8 ton





9 m Light Configuration Insert Boom

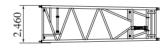
Weight: 2.6 ton

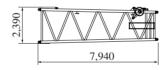




7.8 m Light Configuration Tapered Boom

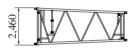
Weight: 2.9 ton

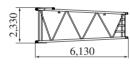




6 m Light Configuration **Long Tapered Boom**

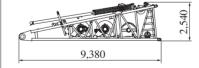
Weight: 1.0 ton





9 m Boom Base

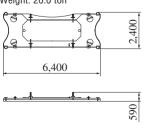
With H1, H2 and W2 winches including ropes, guide sheave, and boom backstop Weight: 21.6 ton



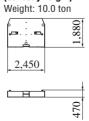


Base Counterweight

Weight: 20.0 ton

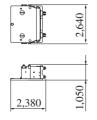


Counterweight (Carbodyweight)



Base Carbody Weight

Weight: 5.7 ton

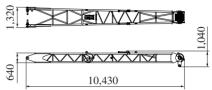


Dimensions: mm Weight: ton

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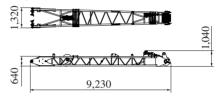
9 m Light Configuration Front Strut

Weight: 1.9 ton



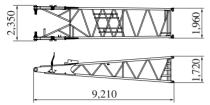
6 m Light Configuration Rear Strut

Weight: 2.6 ton



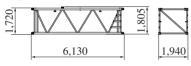
9 m Light Configuration Jib Base

Weight: 2.0 ton



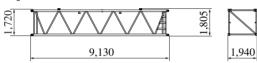
6 m Light Configuration Insert Jib

Weight: 0.9 ton



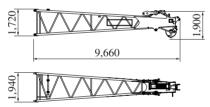
9 m Light Configuration Insert Jib

Weight: 1.3 ton



9 m Light Configuration Jib Top

Weight: 2.7 ton



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