



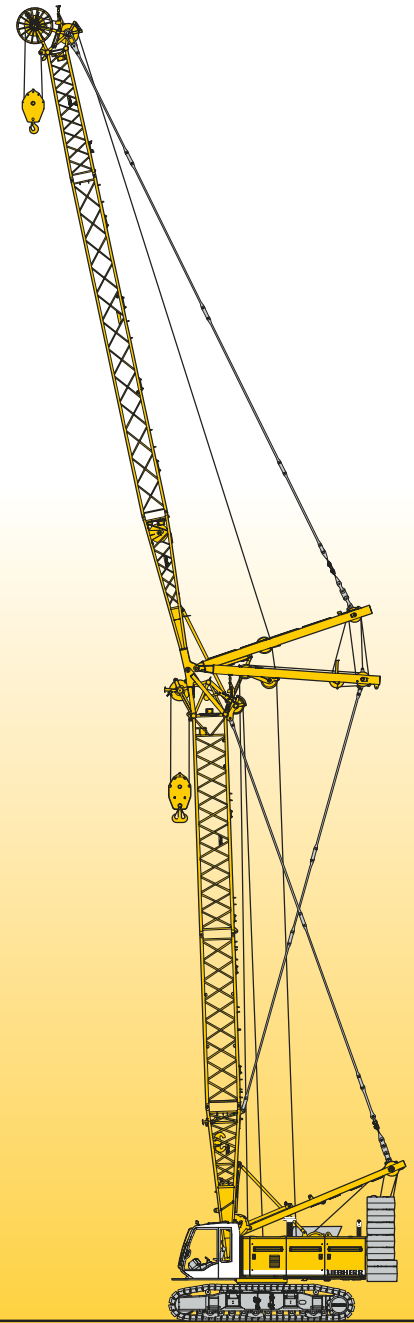
SELECT CRAWLER CRANE

SPECIFICATION SHEETS



Technical data
Hydraulic lift crane

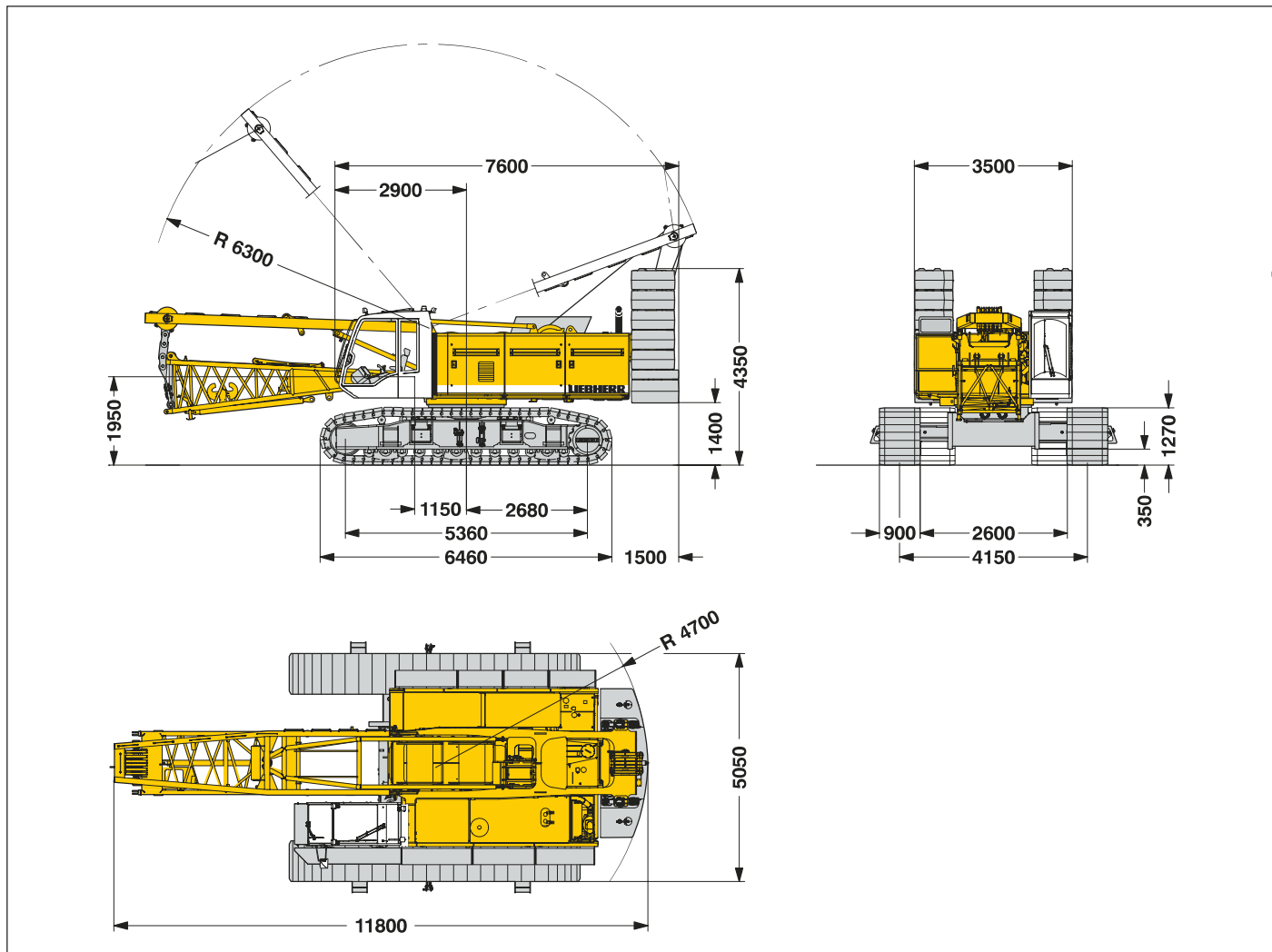
LR 1100
Litronic®



LIEBHERR

Dimensions

Basic machine with undercarriage



Operating weight

The operating weight includes the basic machine with crawlers, 2 main winches 120 kN and 14 m main boom, consisting of A-frame, boom foot (5.5 m), boom head (8.5 m), 32.3 t basic counterweight, 15 t carbony counterweight and 140 t hook block.

Total weight _____ appr. 109.8 t

Ground pressure

Ground bearing pressure _____ 1.14 kg/cm²

Equipment

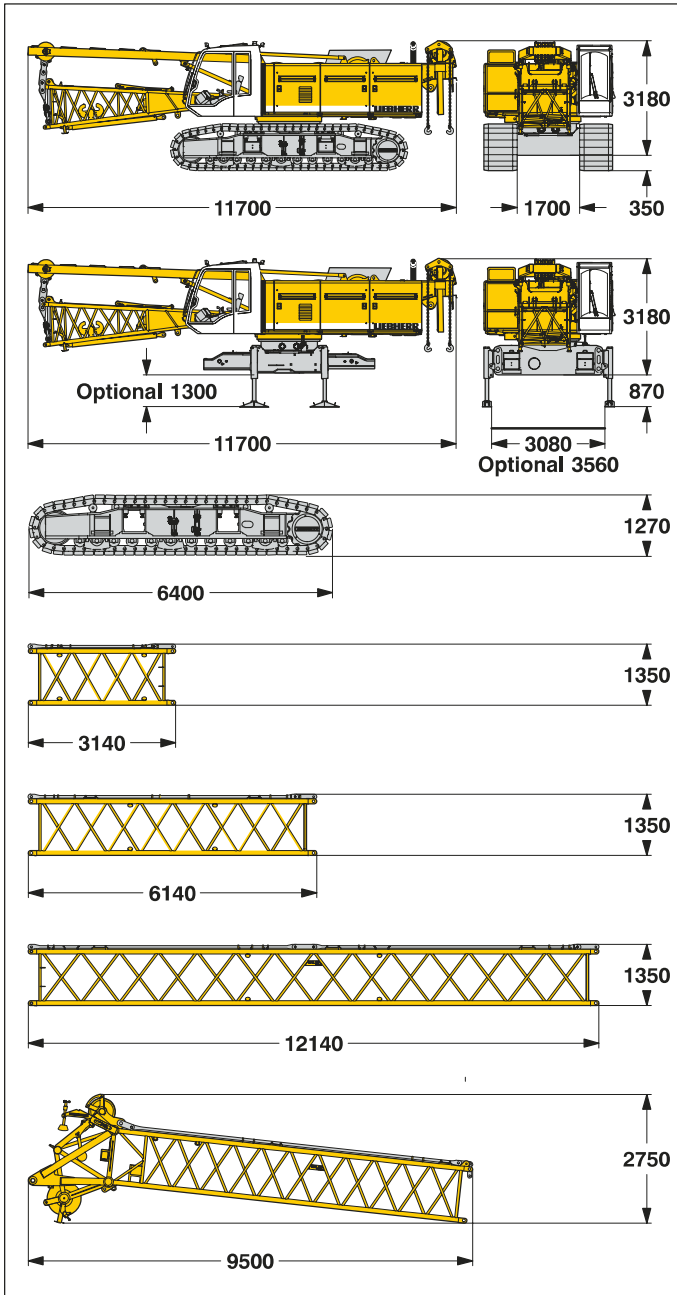
Main boom (No. 1311.xx) max. length _____ 68 m
 High reach (1311.xx and 1008.xx) _____ 83 m
 Luffing jib (No. 1008.xx) max. length _____ 62 m
 Max. combination _____ boom 38 m and luffing jib 62 m
 Fixed jib (No. 0806.xx) _____ 11 m – 32 m
 Auxiliary jib 24 t lifting capacity (option 36 t)

Remarks

1. The lifting capacities stated are valid for lifting operation only (corresponds with crane classification according to F.E.M. 1.001, crane group A1)
2. Crane standing on firm, horizontal ground.
3. The weight of the lifting device (hoisting ropes, hook block, shackle etc.) must be deducted from the gross lifting capacity to obtain a net lifting value.
4. Additional equipment on boom (e.g. boom walkways, auxiliary jib) must be deducted to get the net lifting capacity.
5. For max. wind speed please refer to lift chart in operator's cab or manual.
6. Working radii are measured from centre of swing and under load.
7. The lifting capacities are valid for 360 degrees of swing.
8. Calculation of stability under load is based on DIN 15019 / part 2 / chart 1 and ISO 4305 Table 1 + 2, tipping angle 4°.
9. The structures are calculated according to F.E.M. 1.001 – 1998 (prEN 13001 / T2 / 1997).

Transport dimensions and weights

Basic machine and boom (No. 1311.xx)



Basic machine

with HD undercarriage, boom foot (No. 1311.xx), A-frame, 2x 120 kN crane winches including wire ropes (260 m), without basic counterweight

Width _____ mm _____ 3500
Weight _____ kg _____ 57150

Basic machine

with boom foot (No. 1311.xx), A-frame, 2x 120 kN crane winches including wire ropes (260 m), without basic counterweight and crawlers

Width _____ mm _____ 3500
Weight _____ kg _____ 36750

Crawler

2x

Flat track shoes _____ mm _____ 900
Width _____ mm _____ 915
Weight _____ kg _____ 10200

Boom section (No. 1311.xx)

3 m

Width _____ mm _____ 1400
Weight* _____ kg _____ 510

Boom section (No. 1311.xx)

6 m

Width _____ mm _____ 1400
Weight* _____ kg _____ 880

Boom section (No. 1311.xx)

12 m

Width _____ mm _____ 1400
Weight* _____ kg _____ 1540

Boom head (No. 1311.xx)

Width _____ mm _____ 1750
Weight* _____ kg _____ 2350

Transport option without pendants

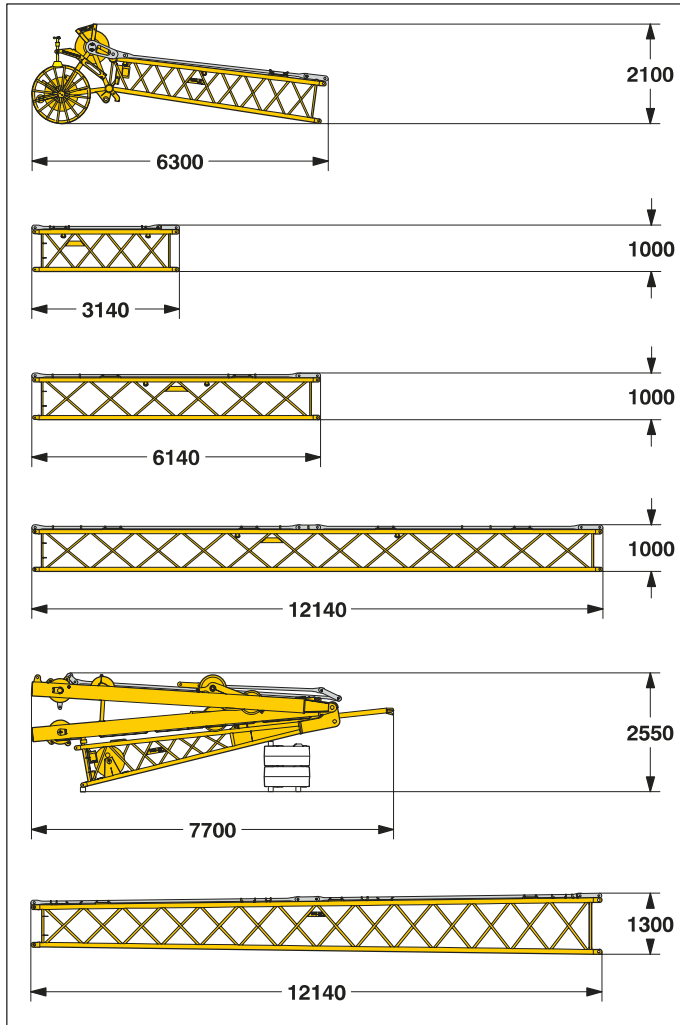
Boom transport option

Length _____ mm _____ 12140
Weight* _____ kg _____ 6160

*) Including pendants

Transport dimensions and weights

Luffing jib (No. 1008.xx)



Luffing jib head (No. 1008.xx)

Width	mm	1300
Weight*	kg	970

Luffing jib section (No. 1008.xx) **3 m**

Width	mm	1200
Weight*	kg	296

Luffing jib section (No. 1008.xx) **6 m**

Width	mm	1200
Weight*	kg	455

Luffing jib section (No. 1008.xx) **12 m**

Width	mm	1200
Weight*	kg	860

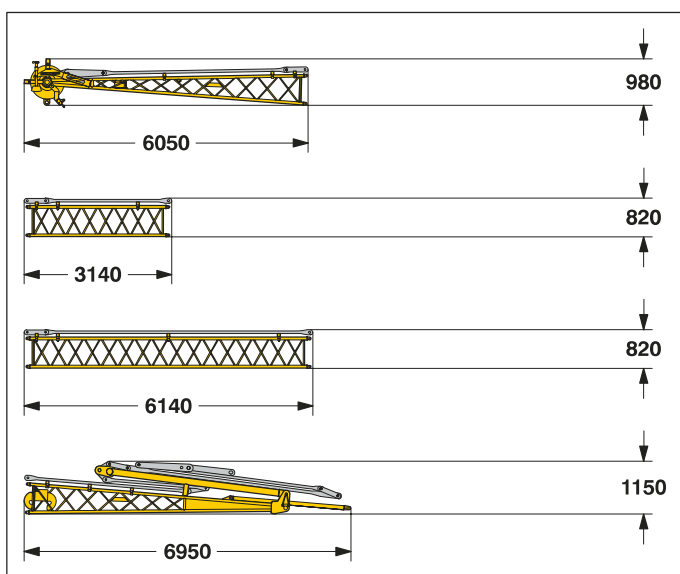
Luffing jib foot with A-frames (No. 1008.xx)

Width	mm	1600
Weight*	kg	3900

Boom section tapered (No. 1311/1008.xx) **12 m**

Width	mm	1400
Weight*	kg	1150

Fixed jib (No. 0806.xx)



Fixed jib head (No. 0806.xx)

Width	mm	1140
Weight*	kg	445

Fixed jib section (No. 0806.xx) **3 m**

Width	mm	950
Weight*	kg	110

Fixed jib section (No. 0806.xx) **6 m**

Width	mm	950
Weight*	kg	195

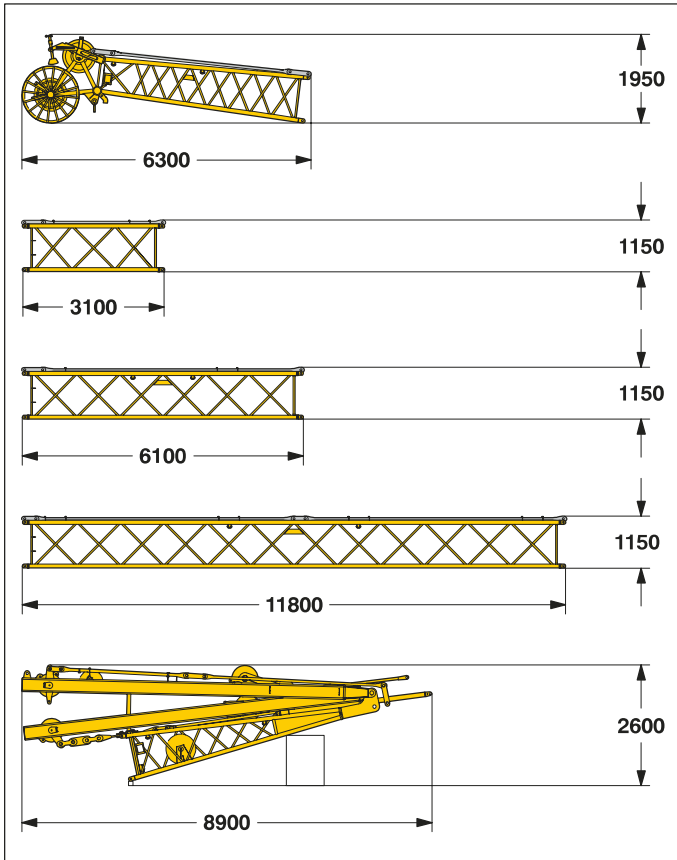
Fixed jib foot with A-frame (No. 0806.xx)

Width	mm	1500
Weight*	kg	930

*) Including pendants

Transport dimensions and weights

Luffing jib (No. 1309.xx)



*) Including pendants

Luffing jib head (No. 1309.xx)

Width	mm	1500
Weight*	kg	1135

Luffing jib section (No. 1309.xx) **3 m**

Width	mm	1500
Weight*	kg	420

Luffing jib section (No. 1309.xx) **6 m**

Width	mm	1500
Weight*	kg	520

Luffing jib section (No. 1309.xx) **11.7 m**

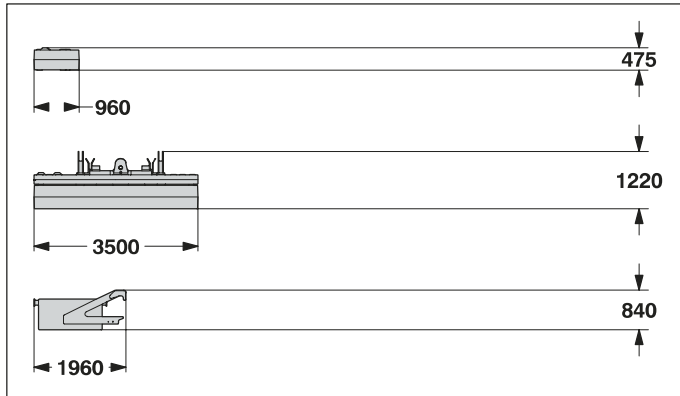
Width	mm	1500
Weight*	kg	960

Luffing jib foot with A-frames (No. 1309.xx)

Width	mm	1700
Weight*	kg	4800

Transport dimensions and weights

Counterweight



Counterweight **10x**

Width	mm	850
Weight	kg	1500

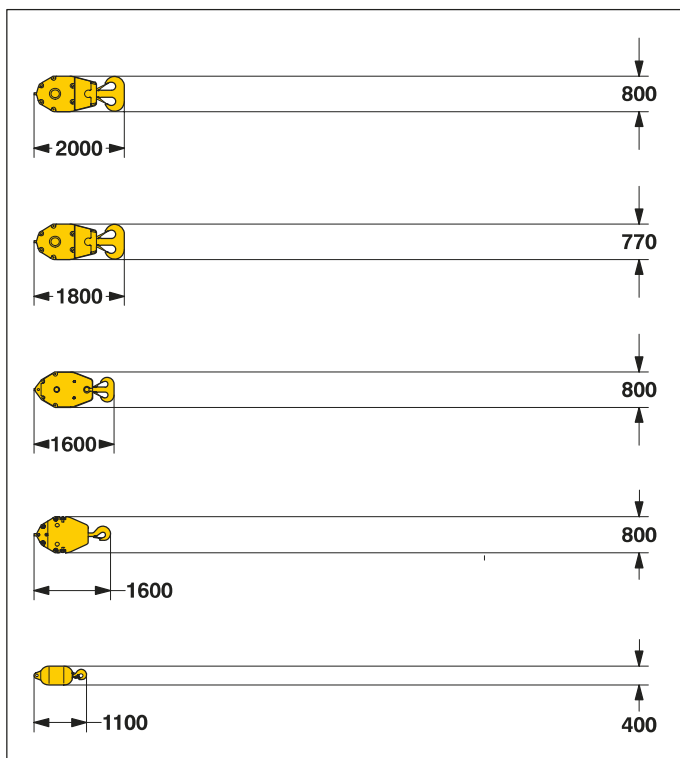
Counterweight **1x**

Width	mm	1050
Weight	kg	17300

Carbody counterweight **2x**

Width	mm	1640
Weight	kg	7500

Hooks



140 t hook block - 7 sheaves

Width	mm	850
Weight	kg	2500

100 t hook block - 5 sheaves

Width	mm	540	640	770
Weight	kg	1300	1800	2300

80 t hook block - 3 sheaves

Width	mm	560
Weight	kg	2000

40 t hook block - 1 sheave

Width	mm	300	400	500
Weight	kg	700	1100	1500

12.5 t single hook

Width	mm	400
Weight	kg	600

Technical description



Engine

Power rating according to ISO 9249, 240 kW (322 hp) at 2000 rpm
Engine type _____ Liebherr D 926 TI-E
Fuel tank _____ 800 l capacity with continuous level indicator
and reserve warning
Complies with EPA CARB II / TIER II / and 97/68 EC TIER II OFF-ROAD



Hydraulic system

A double axial displacement pump supplies the open loop hydraulic system, allowing all functions to be operated simultaneously. To minimize peak pressure an automatic working pressure cut-off is integrated in the pump. All filters are electronically monitored.
The use of synthetic environmentally friendly (biodegradable) oils is possible.
Working pressure _____ max. 350 bar
Oil tank capacity _____ 650 l



Luffing jib winch

Line pull _____ max. 105 kN
Rope diameter _____ 20 mm
Jib luffing _____ 48 sec. from 15° to 78°



Boom winch

Line pull _____ max. 105 kN
Rope diameter _____ 20 mm
Boom up _____ 44 sec. from 15° to 86°



Swing

Consists of rollerbearing with external teeth, swing drive with fixed axial piston hydraulic motor, spring loaded and hydraulically released multi-disc holding brake, planetary gearbox and pinion.
Free swing with hydraulic moment control reduces wear to a minimum. Alternatively the swing control can be changed to simulate closed loop speed control. Then a multi-disc holding brake acts automatically at zero swing motion.
Swing speed from 0 – 3.15 rpm continuously variable.



Main winches

Line pull (1st layer) _____ max. 175 kN
Line pull (7th layer) _____ 120 kN
Rope diameter _____ 26 mm
Drum diameter _____ 580 mm
Rope speed m/min _____ 0 – 136
Rope capacity in 7 layers _____ 489 m
The winches are outstanding in their compact design and easy assembly. Propulsion is via a planetary gearbox in an oil bath.
Load support by the hydraulic system; additional safety factor provided by a spring loaded, multi-disc holding brake.
The main winches use pressure controlled, variable flow hydraulic motors. This system features sensors that automatically adjust oil flow to provide max. winch speed depending on load.
Option – winch with freefall system:
Clutch and braking functions on the freefall system are provided by a compact designed, low wear and maintenance free multi-disc brake.



Crawlers

Propulsion through axial piston motor, hydraulically released spring loaded multi-disc brake, crawler tracks, hydraulic chain tensioning device.
Flat track shoes _____ 900 mm
Drive speed _____ 0 – 1.35 km/h



Control

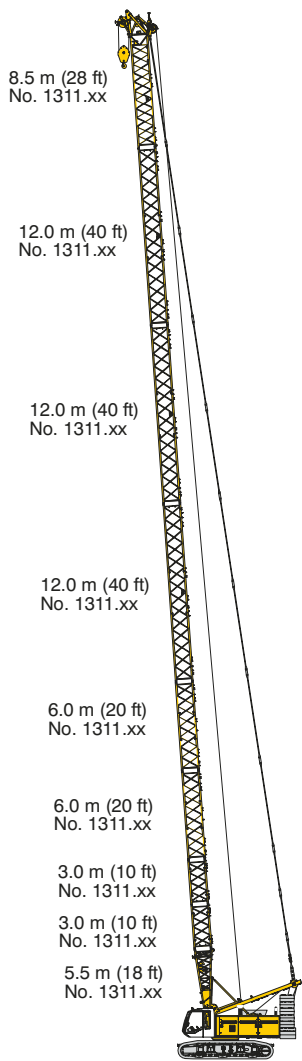
The control system – developed and manufactured by Liebherr – is designed to withstand extreme environmental conditions such as temperature, vibration and electromagnetic interference and to meet all requirements that are needed in heavy duty crane operation. Complete machine operating data are shown on a high resolution display. Standard operational information is displayed by means of graphical symbols, fault indications are displayed in plain text (more than 10 languages available). The cranes are equipped with proportional control for all main movements, which can be carried out simultaneously.
A backup control system, that allows limited use of the crane is standard. This feature increases the safety and availability of the crane even further. The crane is operated with 2 multi-directional joysticks, the right for winch I and boom, the left for winch II and swing control.
Option:
Bi-directional double T-levers for simultaneous boom and luffing jib operation. The crawlers are activated by the two central foot pedals. Additionally, hand levers can be attached to the pedals.



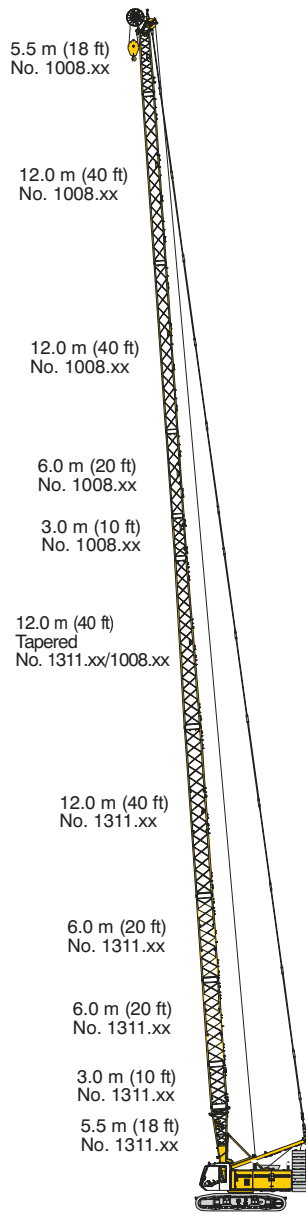
Noise emission

Noise emissions correspond with 2000/14/EC directive on noise emission by equipment used outdoors.

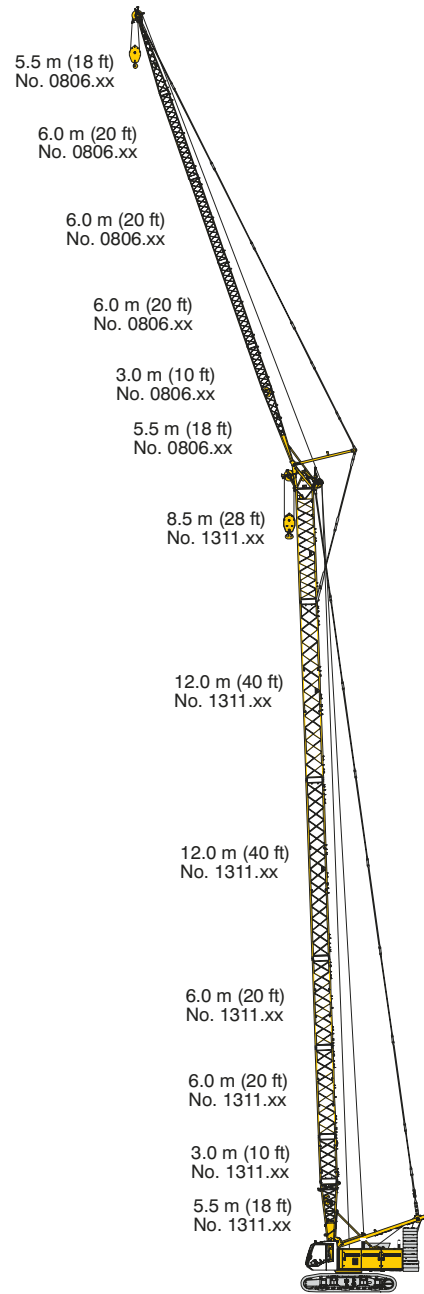
Boom combinations



Main boom No. 1311.xx — 68 m

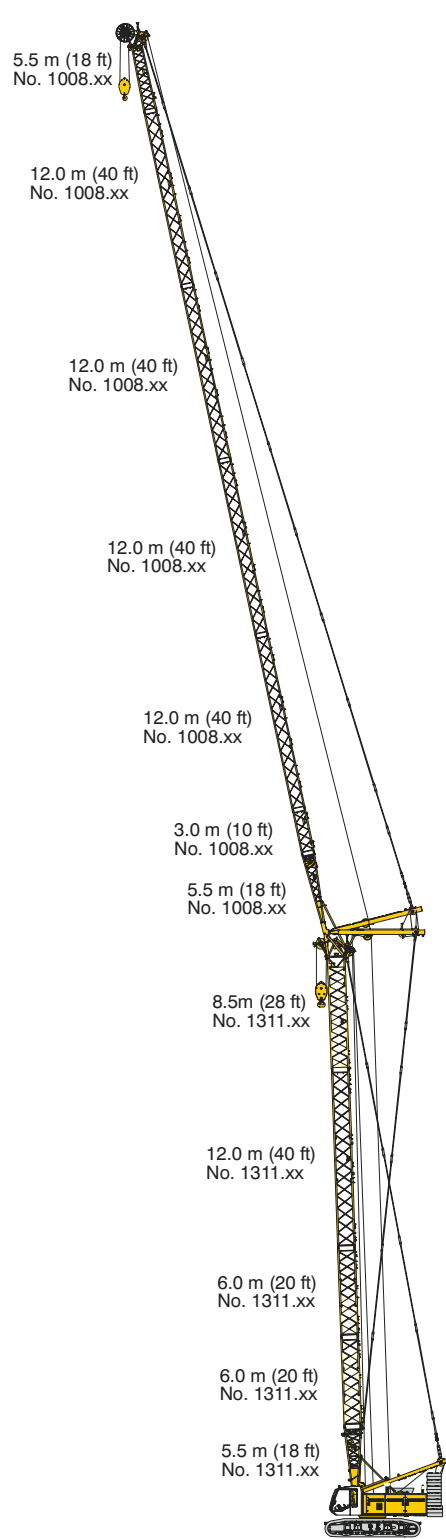


Max. combination — 83.0 m
Main boom No. 1311.xx — 44.5 m
Tapered No. 1311/1008.xx — 12.0 m
Luffing jib No. 1008.xx — 26.5 m

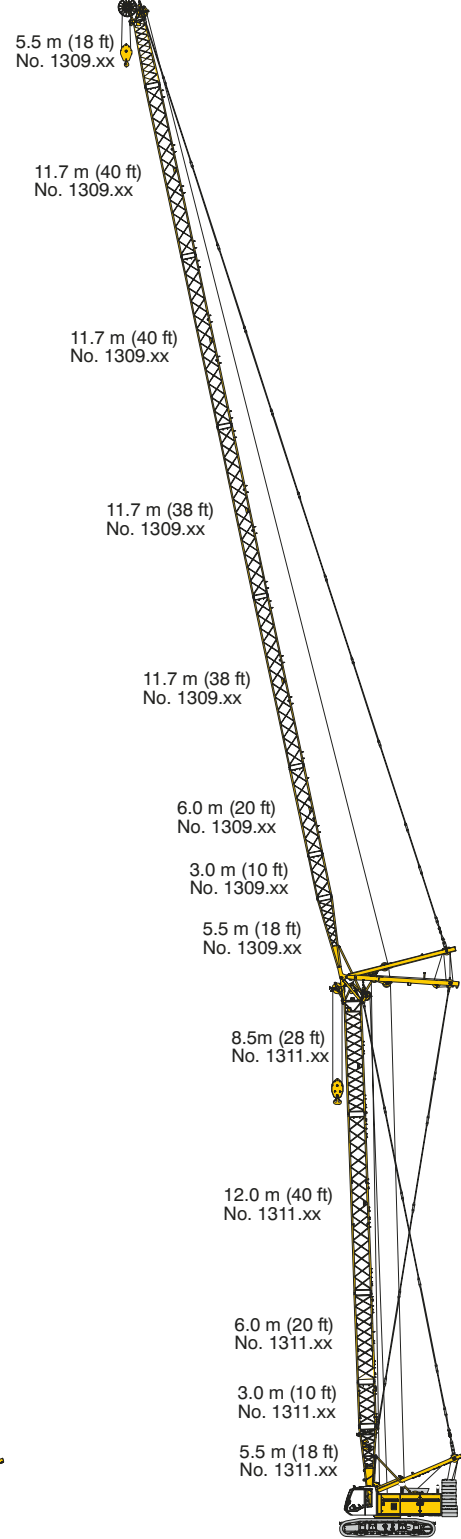


Max. combination — 85.0 m
Main boom No. 1311.xx — 53.0 m
Fixed jib No. 0806.xx — 32.0 m

Boom combinations

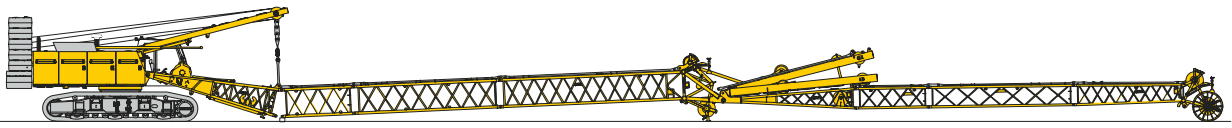


Max. combination — 100.0 m
 Main boom No. 1311.xx — 38.0 m
 Luffing jib No. 1008.xx — 62.0 m
 Main boom No. 1311.xx — 41.0 m
 Luffing jib No. 1008.xx — 44.0 m

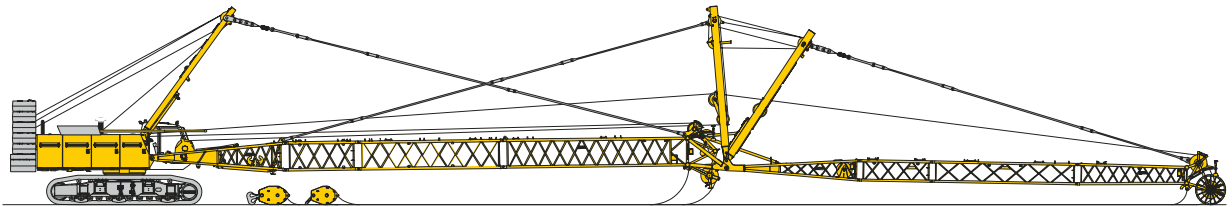


Max. combination — 101.8 m
 Main boom No. 1311.xx — 35.0 m
 Luffing jib No. 1309.xx — 66.8 m
 Main boom No. 1311.xx — 38.0 m
 Luffing jib No. 1309.xx — 46.1 m

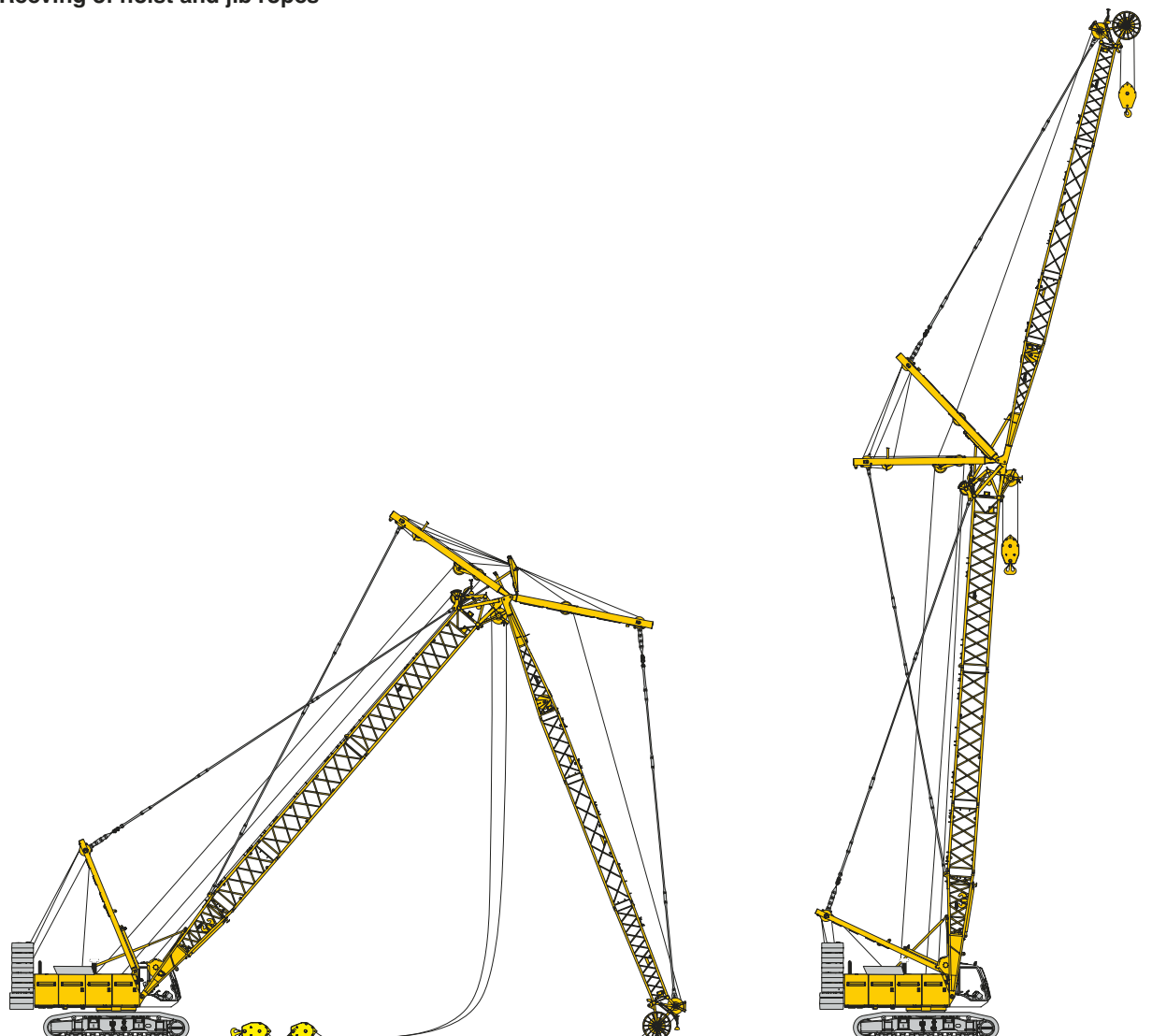
Erecting of main boom to working position



Assembly of boom



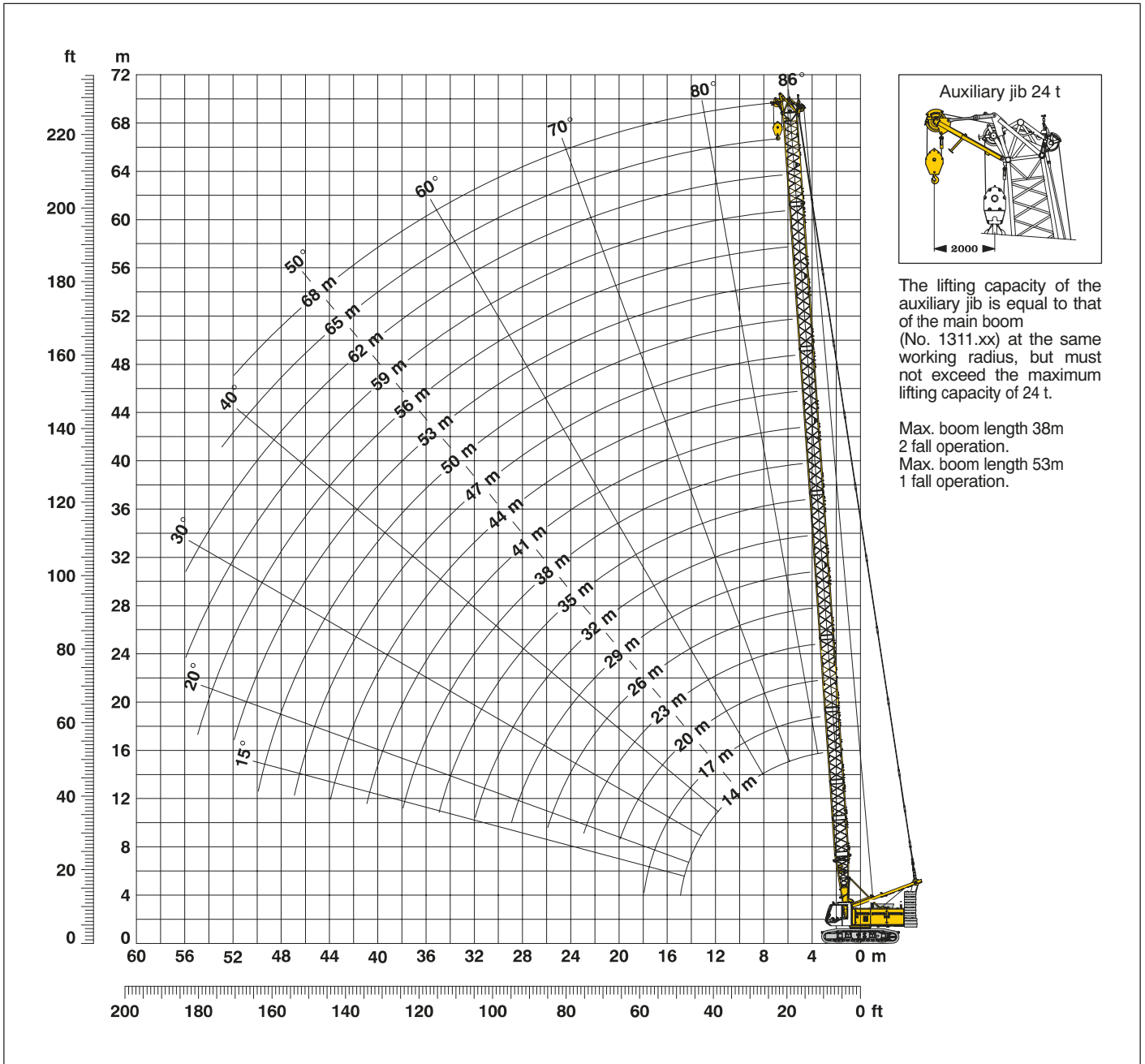
Reeving of hoist and jib ropes



Erecting of main boom and luffing jib

Working position

Working range - main boom (No. 1311.xx) **86 - 15** 32.3 t counterweight and 15 t carbody counterweight



Main boom configuration (Table 1 – No. 1311.xx)

Configuration for boom lengths (17 m – 80 m)

Configuration	Length	Amount of boom extensions																		
		14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68
Boom foot	5.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom insert	3.0 m		1		1		1		1		1		1		1		1		1	2
Boom insert	6.0 m			1	1	2	2	1	1	2	2	1	1	2	2	1	1	2	2	2
Boom insert	12.0 m							1	1	1	1	2	2	2	2	3	3	3	3	3
Boom head	8.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length (m)		14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68

Lift chart for main boom (No. 1311.xx)

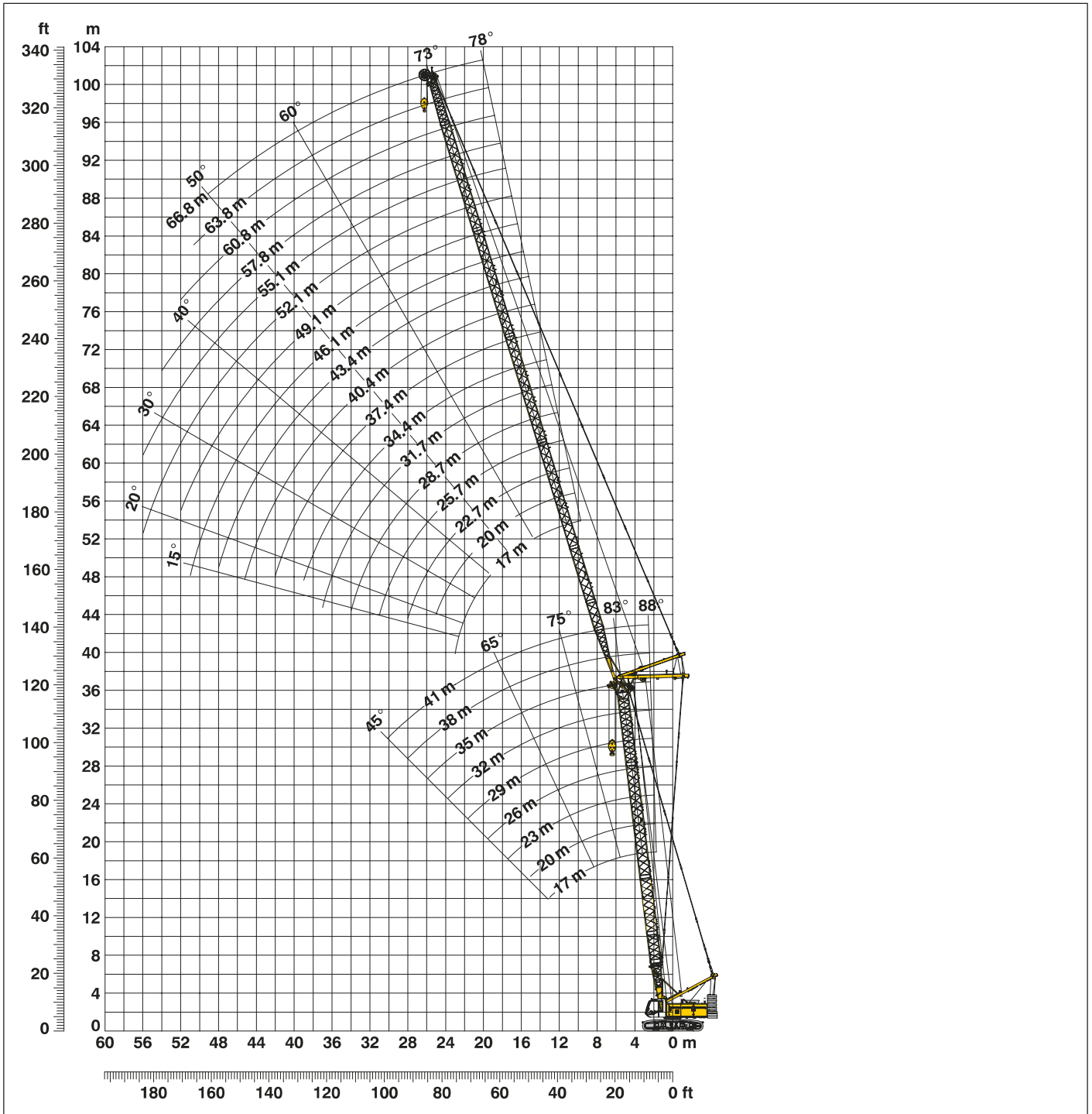
Capacities in metric tons for boom lengths (14 m – 68 m) – with 120 kN winches
32.3 t counterweight and 15 t carbody counterweight

Boom length in (m)											
Radius	14	20	26	32	38	44	50	56	62	68	Radius
(m)	t	t	t	t	t	t	t	t	t	t	(m)
3.1	104.5										3.1
4	103.7	94.1	78.0								4
5	82.2	73.2	65.8	59.8	50.5						5
6	65.8	59.7	54.6	50.2	46.4	35.2	27.7				6
7	54.8	50.3	46.5	43.2	40.2	34.3	26.9	18.6	15.2	10.9	7
8	46.8	43.4	40.4	37.8	35.3	33.1	26.2	18.2	14.9	10.8	8
9	39.5	38.1	35.6	33.5	31.5	29.7	25.2	17.9	14.6	10.5	9
10	34.1	33.9	31.8	30.0	28.3	26.8	24.5	17.5	14.2	10.2	10
12	26.6	26.7	26.1	24.8	23.4	22.3	21.1	16.9	13.5	9.7	12
14	21.6	21.7	21.6	20.9	19.9	18.9	17.9	15.9	13.0	9.3	14
16		18.1	18.0	18.0	17.1	16.3	15.5	14.7	12.1	8.9	16
18		15.5	15.4	15.3	15.0	14.3	13.5	12.8	10.9	8.4	18
20		13.3	13.3	13.2	13.0	12.6	12.0	11.4	10.6	8.1	20
22			11.7	11.6	11.4	11.2	10.6	10.1	9.5	7.8	22
24			10.3	10.3	10.1	9.9	9.5	9.0	8.4	7.3	24
26			9.1	9.1	8.9	8.8	8.5	8.0	7.5	6.9	26
28				8.2	8.0	7.8	7.6	7.2	6.7	6.2	28
30				7.3	7.1	7.0	6.7	6.5	6.0	5.5	30
32				6.6	6.4	6.3	6.0	5.8	5.4	4.9	32
34					5.8	5.6	5.4	5.2	4.8	4.4	34
36					5.2	5.1	4.8	4.7	4.3	3.9	36
38					4.7	4.6	4.4	4.2	3.9	3.4	38
40						4.1	3.9	3.7	3.5	3.0	40
42						3.7	3.5	3.3	3.1	2.7	42
44						3.3	3.1	3.0	2.7	2.3	44
46							2.8	2.6	2.4	2.0	46
48							2.5	2.3	2.1		48
50							2.2	2.0			50

Above lift chart is for reference only. For actual lift duty please refer to lift chart in operator's cab or manual.

Working range - luffing jib (No. 1309.xx) **78° - 15°**

Main boom **88° - 45°**



Boom configuration for main boom lengths (17 m - 41 m) – see table 1 on page 8

Jib configuration for jib lengths (17 m - 66.8 m)

	Length	Amount of luffing jib extensions																	
Luffing jib foot	5.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Luffing jib insert	3.0 m			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Luffing jib insert	6.0 m	1			1	1			1	1			1	1			1	1	1
Luffing jib insert	11.7 m		1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	4
Luffing jib head	5.5 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Luffing jib length (m)		17	22.7	25.7	28.7	31.7	34.4	37.4	40.4	43.4	46.1	49.1	52.1	55.1	57.8	60.8	63.8	66.8	

Lift chart – tower crane (No. 1309.xx)

Main boom angle 88°

Main boom 17 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
6.5	t	t	t	t	t	t	t	t
8	45.7	38.8	35.3					
9	34.7	32.7	27.5					
11	28.7	27.3	24.8	21.3				
13	24.4	23.3	22.0	19.2	13.8			
14	22.7	21.7	20.6	18.2	13.3	10.1		
15	21.2	20.3	19.3	17.5	12.9	10.0	8.2	
17	18.7	17.9	17.1	15.7	11.6	9.5	8.0	5.4
18	17.4	16.9	16.1	15.0	11.3	9.3	7.8	5.4
19	16.2	16.0	15.3	14.4	11.1	9.0	7.7	5.2
24		12.1	11.3	11.2	9.1	7.9	6.7	4.8
30			9.0	8.9	7.6	6.7	5.8	4.4
36				6.9	6.3	5.7	5.0	4.0
46					4.5	4.2	3.8	3.2
50						3.7	3.4	2.8
55							2.9	2.3

Main boom 23 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
6.7	t	t	t	t	t	t	t	t
7	38.3	38.1						
8	35.3	29.9						
10	29.6	26.8	22.6					
11	27.1	25.4	21.7	18.4				
13	23.2	22.1	19.7	17.0	11.8			
14	21.6	20.6	18.7	16.3	11.6	9.0		
16	19.0	18.2	17.1	15.0	11.0	8.7	7.2	
18	17.0	16.2	15.3	13.8	10.2	8.4	6.9	4.9
19	16.2	15.4	14.4	13.3	9.9	8.1	6.8	4.8
24		11.3	10.5	10.1	8.4	7.2	6.0	4.4
30			8.1	7.6	6.8	6.1	5.4	4.0
36				6.2	5.5	5.1	4.6	3.6
46					4.0	3.6	3.3	2.7
50						3.2	2.9	2.3
55							2.5	

Main boom 29 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
7	t	t	t	t	t	t	t	t
9	30.6	27.4	22.4					
10	25.8	21.8	18.8					
11	24.5	21.1	18.0	15.3				
13	21.7	19.2	16.6	14.3	9.8			
15	19.3	17.4	15.2	13.3	9.4	7.8		
16	18.1	16.5	14.6	12.8	9.2	7.6	6.2	
18	16.1	15.0	13.3	11.5	8.6	7.2	5.9	4.3
19	15.1	14.0	12.6	11.3	8.4	7.0	5.8	4.3
24		10.3	9.9	9.0	7.2	6.1	5.2	3.9
30			7.7	7.0	5.9	5.3	4.6	3.5
36				5.8	4.9	4.4	3.9	3.1
46					3.7	3.2	2.9	2.2
48						3.1	2.7	2.1
50						2.9	2.5	
55							2.2	

Main boom 35 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
7.2	t	t	t	t	t	t	t	t
9	22.3	20.3	17.4					
10	19.3	16.7	14.1					
11	18.3	15.9	13.6	11.3				
14	15.3	14.0	12.1	10.2	7.3			
15	14.4	13.3	11.4	9.9	7.1	5.8		
16	13.5	12.7	10.9	9.6	6.9	5.7	4.7	
18	12.4	10.3	10.2	8.8	6.4	5.4	4.5	3.3
19	10.6	9.9	9.7	8.5	6.2	5.2	4.4	3.2
24		7.9	7.8	7.0	5.4	4.6	3.8	2.8
30			6.0	5.6	4.5	4.0	3.4	2.4
36				4.7	3.8	3.4	2.9	2.2
38					3.6	3.2	2.7	2.0
46					2.8	2.4	2.0	
48					2.6	2.2		
50						2.1		

Main boom 38 m

Radius (m)	Jib length in (m)					
	17	22.7	28.7	34.4	40.4	46.1
7.3	t	t	t	t	t	t
9	19.3	18.2	15.2			
10	17.5	14.6	12.7			
11	16.7	14.0	12.2	10.1		
13	15.0	13.0	11.1	9.6	8.1	
14	14.3	12.6	10.8	9.3	7.8	6.5
16	12.9	10.5	9.9	8.7	7.3	6.2
18	10.0	9.6	9.3	8.0	6.9	5.8
20	8.2	8.8	8.5	7.5	6.4	5.5
24		7.3	7.2	6.4	5.6	4.9
30			5.4	5.2	4.7	4.2
36				4.3	3.9	3.5
42					3.2	2.9
48						2.4

Main boom 41 m

Radius (m)	Jib length in (m)			
	22.7	25.7	28.7	
8.6	t	t	t	t
10	13.5	13.0	10.3	11.0
11	12.5	10.1	10.8	
12	12.2	9.7	10.5	
13	11.0	9.4	10.0	
14	10.5	8.9	9.7	
16	9.6	8.1	8.9	
18	8.9	7.2	8.3	
20	8.3	6.5	7.7	
22	7.7	6.1	7.3	
24	6.9	5.8	6.6	
26		5.6	6.0	
28		5.4	5.6	
30			5.3	

Capacities in metric tons with luffing jib (No. 1309.xx) 32.3 t counterweight + 15 t carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

Lift chart – tower crane (No. 1309.xx)

Main boom angle 83°

Main boom 17 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
9.5	31.8	t	t	t	t	t	t	t
12	25.4	24.2	t	t	t	t	t	t
13	23.5	22.4	21.3	t	t	t	t	t
15	20.4	19.5	18.6	17.7	t	t	t	t
18	16.9	16.2	15.5	14.8	12.7	t	t	t
20	14.7	14.6	13.9	13.3	11.8	9.1	t	t
22	t	13.1	12.6	12.1	11.0	8.8	7.4	t
26	t	10.6	10.5	10.1	9.2	8.1	6.9	4.8
32	t	t	7.9	7.8	7.2	6.8	6.2	4.4
36	t	t	t	6.6	6.2	5.8	5.4	4.3
48	t	t	t	t	4.0	3.8	3.5	3.0
50	t	t	t	t	t	3.5	3.3	2.8
55	t	t	t	t	t	t	2.7	2.3
60	t	t	t	t	t	t	2.2	t

Main boom 23 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
10.2	27.5	t	t	t	t	t	t	t
11	25.7	t	t	t	t	t	t	t
12	23.7	22.6	t	t	t	t	t	t
14	20.5	19.5	18.6	t	t	t	t	t
16	18.0	17.2	16.4	15.7	t	t	t	t
19	15.2	14.5	13.8	13.2	11.0	t	t	t
22	t	12.5	11.9	11.4	10.3	8.0	t	t
24	t	11.5	10.9	10.4	9.4	7.7	6.5	t
26	t	10.4	10.0	9.5	8.6	7.5	6.3	4.4
32	t	t	7.8	7.6	6.8	6.3	5.8	4.1
38	t	t	t	6.0	5.4	5.0	4.7	3.8
48	t	t	t	t	3.9	3.6	3.2	2.7
55	t	t	t	t	t	2.8	2.5	2.0
60	t	t	t	t	t	t	2.1	t

Main boom 29 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
11	24.0	t	t	t	t	t	t	t
12	22.1	t	t	t	t	t	t	t
13	20.5	19.6	t	t	t	t	t	t
15	17.9	17.1	16.3	t	t	t	t	t
20	13.6	13.0	12.3	11.8	9.4	t	t	t
22	12.4	11.8	11.2	10.7	9.0	7.1	t	t
24	t	10.8	10.2	9.8	8.5	6.9	5.6	t
26	t	9.9	9.4	9.0	8.0	6.7	5.5	4.0
32	t	t	7.5	7.1	6.3	5.9	5.2	3.8
38	t	t	t	5.8	5.0	4.7	4.3	3.5
50	t	t	t	t	3.3	3.0	2.7	2.2
55	t	t	t	t	t	2.6	2.3	t

Main boom 35 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
11.7	20.3	t	t	t	t	t	t	t
14	17.9	15.9	t	t	t	t	t	t
16	15.8	14.7	12.6	t	t	t	t	t
17	14.9	14.1	12.2	10.1	t	t	t	t
22	11.4	11.1	9.9	8.7	6.3	5.2	t	t
24	t	10.1	9.3	8.2	6.0	5.1	4.2	t
28	t	8.1	8.2	7.5	5.5	4.7	4.0	2.9
34	t	t	6.4	6.2	5.0	4.3	3.6	2.6
38	t	t	t	5.4	4.5	4.0	3.4	2.5
48	t	t	t	t	3.3	3.0	2.6	2.0
50	t	t	t	t	t	3.1	2.8	2.4
55	t	t	t	t	t	t	2.3	t

Main boom 38 m

Radius (m)	Jib length in (m)					
	17	22.7	28.7	34.4	40.4	46.1
12.1	17.6	t	t	t	t	t
14	16.3	13.9	t	t	t	t
16	15.0	12.9	10.8	t	t	t
18	13.6	11.6	10.1	8.7	t	t
19	12.9	11.1	9.7	8.4	6.9	t
22	10.5	9.9	8.8	7.6	6.4	5.5
28	t	7.7	7.5	6.5	5.6	4.9
34	t	t	6.1	5.7	5.0	4.4
40	t	t	t	4.5	4.4	3.8
46	t	t	t	t	3.7	3.3
50	t	t	t	t	t	3.0

Main boom 41 m

Radius (m)	Jib length in (m)		
	22.7	25.7	28.7
14.1	12.1	t	t
15	11.4	10.2	t
16	11.0	10.0	9.4
18	10.1	9.2	8.9
20	9.4	8.6	8.2
22	8.8	7.9	7.7
24	8.3	7.5	7.2
26	7.8	7.3	6.9
28	7.2	7.1	6.7
32	t	5.7	6.1
34	t	t	5.6

Capacities in metric tons with luffing jib (No. 1309.xx) 32.3 t counterweight + 15 t carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

Lift chart – tower crane (No. 1309.xx)

Main boom angle 75°

Main boom 17 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
14.1	t	t	t	t	t	t	t	t
17	20.4							
19	16.9	16.2						
22	15.0	14.4	13.7					
28	12.4	12.3	11.8	11.3				
30		9.0	8.9	8.6	7.7			
32			8.1	8.0	7.1	6.7		
34			7.4	7.3	6.6	6.2	5.8	
36			6.8	6.7	6.1	5.7	5.3	
40				6.2	5.7	5.3	4.9	4.3
44				5.3	4.9	4.5	4.2	3.6
48					4.2	3.9	3.6	3.1
50					3.6	3.4	3.1	2.6
55					3.3	3.2	2.9	2.3
						2.6	2.4	

Main boom 23 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
15.6	t	t	t	t	t	t	t	t
19	16.9							
22	13.9	13.2						
24	11.9	11.4	10.8					
28	10.7	10.4	9.8	9.4				
30		8.7	8.3	7.9	6.9			
32		7.9	7.7	7.3	6.4			
34			7.1	6.7	5.9	5.5		
36			6.5	6.3	5.5	5.1	4.7	
38			6.0	5.8	5.1	4.7	4.3	
40				5.4	4.7	4.3	4.0	3.4
48				5.0	4.4	4.0	3.7	3.1
50					3.3	3.0	2.6	2.1
55					3.1	2.7	2.4	
						2.3		

Main boom 29 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
17.2	t	t	t	t	t	t	t	t
20	14.0							
24	12.0	11.4						
26	9.9	9.5	8.9					
30	9.1	8.7	8.2	7.7				
32		7.4	6.9	6.5	5.7			
36			6.4	6.1	5.2	4.7		
40			5.6	5.2	4.5	4.1	3.7	
42				4.6	3.8	3.5	3.1	2.5
44				4.3	3.6	3.2	2.8	2.3
48					3.3	2.9	2.6	2.1
50					2.8	2.5	2.2	
					2.6	2.3		

Main boom 35 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	
18.7	t	t	t	t	t	t	t	
22	11.4							
24	9.9	9.4						
26	9.0	8.5	8.0					
28	8.3	7.8	7.3					
32		7.2	6.7	6.3				
34		6.2	5.8	5.4	4.6			
36			5.4	5.0	4.2	3.8		
38			5.0	4.6	3.9	3.5	3.1	
44			4.7	4.3	3.6	3.2	2.8	
48				3.5	2.8	2.4	2.1	
50					2.4	2.0		
					2.2			

Main boom 38 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	40.4	46.1		
19.5	t	t	t	t	t	t		
22	10.4							
26	9.3	8.7						
28	7.8	7.4	6.9					
30	7.2	6.8	6.3	5.9				
32		6.3	5.8	5.4	5.0			
34		5.8	5.4	5.0	4.6	4.2		
40		5.4	5.0	4.6	4.2	3.9		
44			4.1	3.7	3.3	3.0		
48				3.2	2.9	2.5		
50					2.5	2.1		
					2.3			

Main boom 41 m

Radius (m)	Jib length in (m)							
	22.7	25.7	28.7					
22.7	t	t	t					
24	7.9							
26	7.6	7.1						
28	6.9	6.7	6.4					
30	6.4	6.1	5.9					
32	5.9	5.7	5.4					
34	5.5	5.2	5.0					
36	5.1	4.9	4.7					
38		4.5	4.3					
40			4.0					
			3.8					

Capacities in metric tons with luffing jib (No. 1309.xx) 32.3 t counterweight + 15 t carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

Lift chart – tower crane (No. 1309.xx)

Main boom angle 65°

Main boom 17 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
19.5	t	t	t	t	t	t	t	t
24	13.5	10.3						
26	10.4	9.3						
28	9.3	8.4	8.2					
30		7.6	7.5	7.2				
36			5.8	5.6				
38				5.2	4.6			
40				4.8	4.3	3.9		
42				4.4	4.0	3.6		
44					3.7	3.4	3.0	
48					3.2	2.9	2.6	2.0
50					2.9	2.7	2.4	
55						2.2		

Main boom 23 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	
22	t	t	t	t	t	t	t	
26	10.5	8.4						
28	8.7	7.7						
30	7.9	7.1	6.7					
34		5.9	5.7	5.4				
38			4.9	4.6				
40				4.3	3.6			
42				4.0	3.3			
44				3.7	3.1	2.7		
46					2.8	2.5	2.1	
48					2.6	2.3		
50					2.4	2.1		
55					2.0			

Main boom 29 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4	46.1	52.1	57.8	66.8
24.5	t	t	t	t	t	t	t	t
28	8.1	6.6						
30	7.1	6.1						
32	6.5	5.7	5.2					
36		4.9	4.5	4.1				
42			3.6	3.3	2.6			
44				3.1	2.4			
46				2.9	2.2			
48				2.7				

Main boom 35 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4				
27.1	t	t	t	t				
32	6.2	4.8						
34	5.1	4.4	4.0					
38		3.8	3.4	3.0				
40			3.2	2.8				
42			2.9	2.6				
44			2.7	2.4				
46				2.2				
48				2.0				

Main boom 38 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4				
28.3	t	t	t	t				
32	5.3	4.3						
34	4.7	4.0						
36	4.3	3.7	3.2					
40		3.1	2.8	2.4				
44			2.3	2.0				
46			2.1					

Main boom 41 m

Radius (m)	Jib length in (m)							
	22.7	25.7	28.7					
32.9	t	t	t					
34	3.6							
36	3.5							
38	3.2	3.0						
40	2.9	2.7	2.5					
42	2.7	2.5	2.3					
44		2.3	2.1					
		2.1						

Capacities in metric tons with luffing jib (No. 1309.xx) 32.3 t counterweight + 15 t carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

Lift chart – tower crane (No. 1309.xx)

Main boom angle 45°

Main boom 17 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7	34.4				
28.4	t	t	t	t				
30	7.1							
34		5.5						
36		5.0						
38			4.4					
42			3.8					
44				3.3				
46				3.1				

Main boom 23 m

Radius (m)	Jib length in (m)							
	17	22.7	28.7					
32.6	t	t	t					
34	5.0							
38		4.8						
40		3.9						
44		3.6						
46			2.8					
48			2.6					
				2.2				

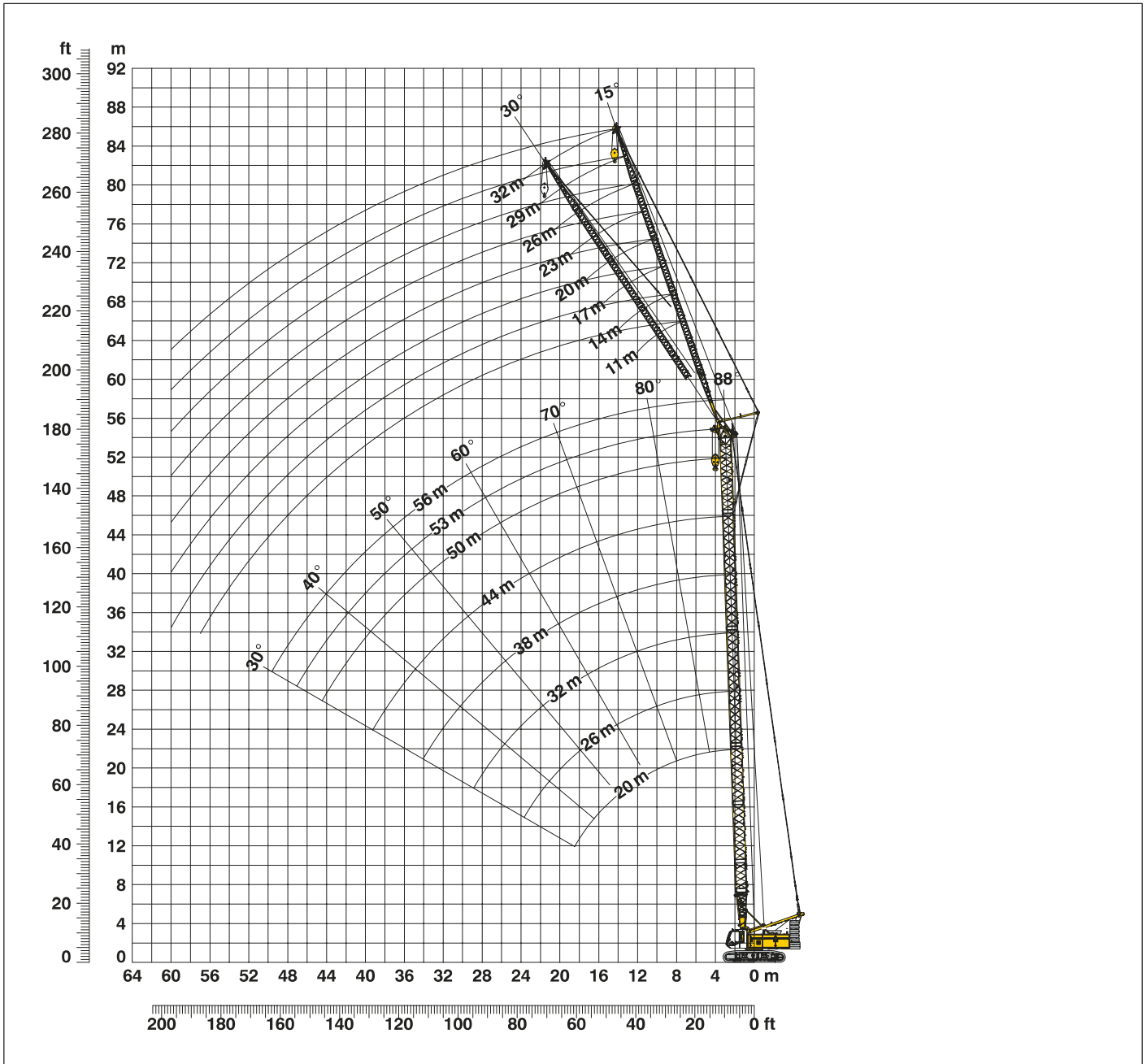
Main boom 29 m

Radius (m)	Jib length in (m)						
	17	22.7					
36.9	t	t					
38	3.3						
42		3.2					
44			2.5				
			2.3				

Capacities in metric tons with luffing jib (No. 1309.xx) 32.3 t counterweight + 15 t carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

Working range - fixed jib (No. 0806.xx) 15° and 30°

Main boom 88° - 30°



Boom configuration for boom lengths (20 m - 56 m) – see table 1 on page 8

Fixed jib configuration for fixed jib lengths (11 m - 32 m)

	Length	Amount of fixed jib extensions							
Fixed jib foot	5.5 m	1	1	1	1	1	1	1	1
Fixed jib insert	3.0 m		1		1		1		1
Fixed jib insert	6.0 m	0	0	1	1	2	2	3	3
Fixed jib head	5.5 m	1	1	1	1	1	1	1	1
Fixed jib length (m)		11	14	17	20	23	26	29	32

Lift chart – fixed jib (No. 0806.xx)

Offset 15°

Main boom 20 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
4.8	24.0			
9	23.0	12.6		
11	21.6	10.9	6.9	
14	19.8	9.9	6.3	4.1
16	18.7	9.3	6.0	3.9
18	16.0	8.8	5.7	3.7
20	13.9	8.3	5.4	3.6
22	12.2	7.9	5.1	3.5
24	10.9	7.6	4.9	3.3
26	9.7	7.2	4.7	3.2
28	8.7	7.0	4.5	3.1
30	7.9	6.7	4.3	3.0
38		5.8	3.8	2.7
44			3.7	2.5
50				2.5

Main boom 26 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
5.1	24.0			
9	22.3	12.1		
11	21.1	10.6	6.7	
14	19.2	9.7	6.2	4.0
16	17.8	9.2	5.9	3.9
18	15.6	8.8	5.6	3.7
20	13.6	8.3	5.3	3.6
22	12.0	7.9	5.1	3.5
24	10.6	7.6	4.9	3.3
26	9.4	7.3	4.7	3.2
30	7.6	6.7	4.4	3.0
34	6.2	6.4	4.1	2.9
44		4.3	3.6	2.5
50			3.5	2.4
55				2.4

Main boom 32 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
5.3	22.8			
9	20.7	10.4		
12	19.1	9.8	6.3	
14	18.0	9.3	6.0	3.9
16	16.9	8.9	5.7	3.8
18	14.9	8.5	5.5	3.7
20	13.2	8.1	5.2	3.5
22	11.8	7.8	5.0	3.4
26	9.2	7.2	4.6	3.2
32	6.7	6.4	4.2	2.9
36	5.5	5.9	4.0	2.8
40	4.5	4.9	3.8	2.6
48		3.4	3.5	2.5
55			2.7	2.4
60				2.3

Main boom 38 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
5.5	20.5			
9	19.0	9.8		
12	17.3	9.3	6.0	
14	16.3	8.9	5.8	3.8
16	15.4	8.5	5.6	3.7
20	12.4	7.8	5.1	3.5
24	10.0	7.3	4.7	3.2
28	8.0	6.7	4.4	3.1
32	6.4	6.2	4.2	2.9
36	5.2	5.7	3.9	2.8
40	4.2	4.7	3.7	2.6
44	3.5	3.9	3.6	2.5
50		2.9	3.1	2.4
55			2.4	2.3
60				2.0

Main boom 44 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
5.7	17.4			
10	15.7	8.8		
11	15.3	8.7		
12	14.9	8.5	5.6	
13	14.5	8.4	5.6	
14	14.1	8.2	5.5	3.7
18	12.6	7.6	5.1	3.5
22	10.5	7.0	4.7	3.3
26	8.5	6.4	4.4	3.1
30	6.9	5.9	4.1	2.9
34	5.6	5.4	3.9	2.8
38	4.5	4.9	3.7	2.6
42	3.6	4.0	3.6	2.5
46	2.9	3.3	3.4	2.4
50	2.3	2.7	2.9	2.3
55		2.0	2.2	2.3

Main boom 50 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
5.9	14.7			
10	13.4	8.0		
12	12.6	7.8	5.2	
15	11.1	7.3	5.0	3.5
16	10.8	7.1	4.9	3.4
18	10.1	6.8	4.8	3.3
22	9.0	6.2	4.5	3.1
26	7.8	5.7	4.2	3.0
30	6.4	5.2	4.0	2.8
34	5.2	4.7	3.7	2.7
38	4.2	4.2	3.5	2.5
42	3.4	3.7	3.2	2.5
46	2.6	3.0	3.0	2.4
48	2.3	2.7	2.8	2.3
50	2.0	2.4	2.6	2.3
55				2.0

Main boom 53 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
6	13.4			
11	11.6	7.4		
12	11.4	7.3	5.0	
15	10.5	6.9	4.8	3.4
18	9.6	6.5	4.6	3.3
22	8.6	5.9	4.3	3.1
26	7.6	5.4	4.1	2.9
30	6.1	5.0	3.8	2.8
34	4.9	4.5	3.6	2.6
38	4.0	4.2	3.4	2.5
40	3.5	3.8	3.3	2.5
42	3.2	3.5	3.2	2.4
44	2.8	3.1	3.1	2.4
46	2.5	2.8	2.9	2.3
48	2.2	2.5	2.6	2.3
50		2.2	2.4	2.2

Main boom 56 m

Radius (m)	Fixed jib length in (m)			
	11	14	20	23
6.1	10.6			
8	10.6	9.1		
10	10.3	9.1	6.6	
11	10.0	8.9	6.6	5.6
12	9.8	8.7	6.5	5.5
14	9.2	8.2	6.3	5.4
18	8.1	7.3	5.8	5.1
22	7.2	6.5	5.2	4.7
26	6.3	5.8	4.8	4.3
30	5.6	5.1	4.3	4.0
34	4.7	4.6	3.9	3.6
38	3.8	3.9	3.6	3.3
42	3.0	3.1	3.2	3.0
46	2.3	2.4	2.6	2.7
48	2.0	2.1	2.3	2.4
50			2.1	2.2

Capacities in metric tons with fixed jib (No. 0806.xx) 32.3 t counterweight + 15 t carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.

Lift chart – fixed jib (No. 0806.xx)

Offset 30°

Main boom 20 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
7.5	21.7			
13	19.0	9.0		
17	16.7	8.2	5.2	
22	12.4	7.4	4.7	3.2
24	11.0	7.0	4.5	3.1
26	9.8	6.8	4.4	3.0
28	8.8	6.6	4.2	3.0
30	7.9	6.4	4.1	2.9
34		6.2	3.9	2.7
36		6.1	3.8	2.7
38		5.9	3.8	2.6
42			3.7	2.5
44			3.7	2.5
48				2.5
50				2.6

Main boom 26 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
7.7	20.6			
14	18.1	8.6		
17	16.7	8.1	5.1	
22	12.2	7.3	4.7	3.2
24	10.8	7.1	4.5	3.1
26	9.6	6.8	4.4	3.0
28	8.6	6.6	4.3	2.9
30	7.8	6.5	4.1	2.9
32	7.0	6.3	4.0	2.8
34	6.3	6.2	3.9	2.7
38		5.8	3.8	2.6
44		4.4	3.6	2.5
48			3.5	2.5
50			3.4	2.5
55				2.6

Main boom 32 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
7.9	19.1			
14	16.2	8.3		
17	14.8	7.8	4.9	
22	11.9	7.2	4.6	3.1
26	9.5	6.6	4.3	3.0
28	8.5	6.4	4.2	2.9
30	7.6	6.2	4.1	2.9
32	6.8	5.9	4.0	2.8
34	6.2	5.7	3.9	2.7
36	5.6	5.5	3.8	2.7
38	5.1	5.4	3.8	2.6
40	4.6	5.1	3.7	2.6
50		3.2	3.5	2.4
55			2.7	2.5
60				2.3

Main boom 38 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
8.1	17.1			
14	14.9	7.8		
18	13.4	7.4	4.7	
22	11.5	6.9	4.5	3.1
26	9.3	6.4	4.3	2.9
30	7.4	5.9	4.1	2.8
34	6.0	5.5	3.9	2.7
36	5.4	5.4	3.8	2.7
38	4.8	5.2	3.7	2.6
40	4.4	4.9	3.7	2.6
42	3.9	4.5	3.6	2.5
44	3.5	4.1	3.5	2.5
46	3.2	3.7	3.5	2.4
55		2.3	2.6	2.4
60				2.2

Main boom 44 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
8.3	14.6			
14	12.7	7.2		
18	11.2	6.9	4.5	
22	10.1	6.3	4.3	3.0
26	8.8	5.9	4.1	2.9
30	7.1	5.5	3.9	2.8
34	5.8	5.1	3.8	2.6
38	4.7	4.7	3.6	2.6
42	3.8	4.3	3.4	2.5
44	3.4	3.9	3.4	2.4
46	3.0	3.5	3.3	2.4
48	2.7	3.2	3.2	2.4
50	2.4	2.8	3.1	2.4
55		2.1	2.4	2.3
60				2.0

Main boom 50 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
8.5	12.1			
14	10.6	6.4		
18	9.4	6.1	4.3	
22	8.4	5.6	4.1	2.9
26	7.4	5.2	3.9	2.8
30	6.6	4.8	3.7	2.7
34	5.4	4.4	3.5	2.6
38	4.4	4.0	3.3	2.5
40	3.9	3.9	3.2	2.4
42	3.5	3.7	3.1	2.4
44	3.1	3.5	3.0	2.3
46	2.8	3.3	2.9	2.3
48	2.4	2.9	2.8	2.3
50	2.1	2.6	2.7	2.2
55			2.2	2.1

Main boom 53 m

Radius (m)	Fixed jib length in (m)			
	11	20	26	32
8.6	10.7			
15	9.5	6.0		
18	8.8	5.8	4.1	
22	7.9	5.4	4.0	2.8
26	7.1	4.9	3.9	2.7
30	6.4	4.6	3.6	2.6
34	5.2	4.2	3.4	2.5
38	4.2	3.9	3.2	2.4
40	3.7	3.8	3.1	2.4
42	3.3	3.6	3.0	2.4
44	3.0	3.4	2.9	2.3
46	2.6	3.1	2.8	2.3
48	2.3	2.7	2.8	2.2
50	2.0	2.4	2.7	2.2
55			2.0	2.1

Main boom 56 m

Radius (m)	Fixed jib length in (m)			
	11	14	20	23
8.7	9.1			
11	9.0	7.6		
15	8.2	7.2	5.3	
17	7.8	6.9	5.3	4.5
19	7.3	6.6	5.1	4.5
22	6.7	6.0	4.8	4.3
26	6.0	5.5	4.4	4.0
30	5.3	4.9	4.1	3.7
34	4.8	4.5	3.7	3.4
38	4.0	4.0	3.4	3.1
42	3.2	3.3	3.1	2.9
44	2.8	3.0	3.0	2.8
46	2.5	2.6	2.8	2.6
48	2.2	2.3	2.6	2.5
50		2.0	2.3	2.4

Capacities in metric tons with fixed jib (No. 0806.xx) 32.3 t counterweight + 15 t carbody counterweight. Above lift chart is for reference only. For actual lift duty and complete chart with all available configurations please refer to lift chart in operator's cab or manual.