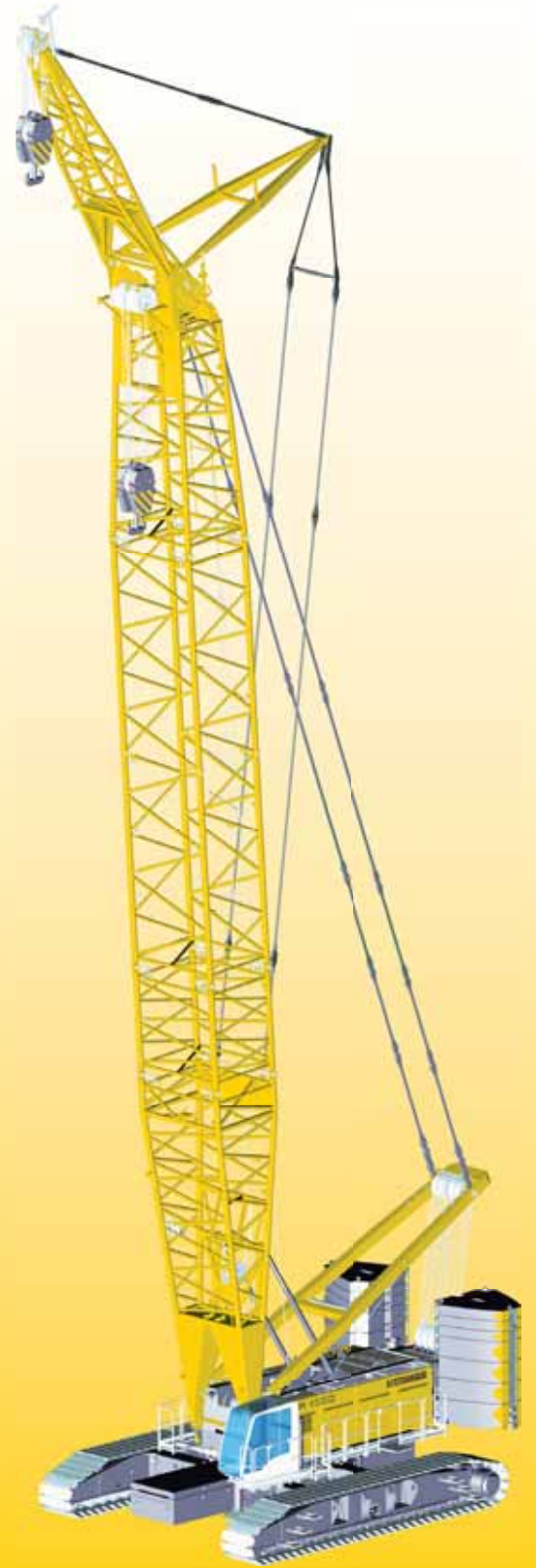


**Technical data**  
**Hydraulic lift crane**

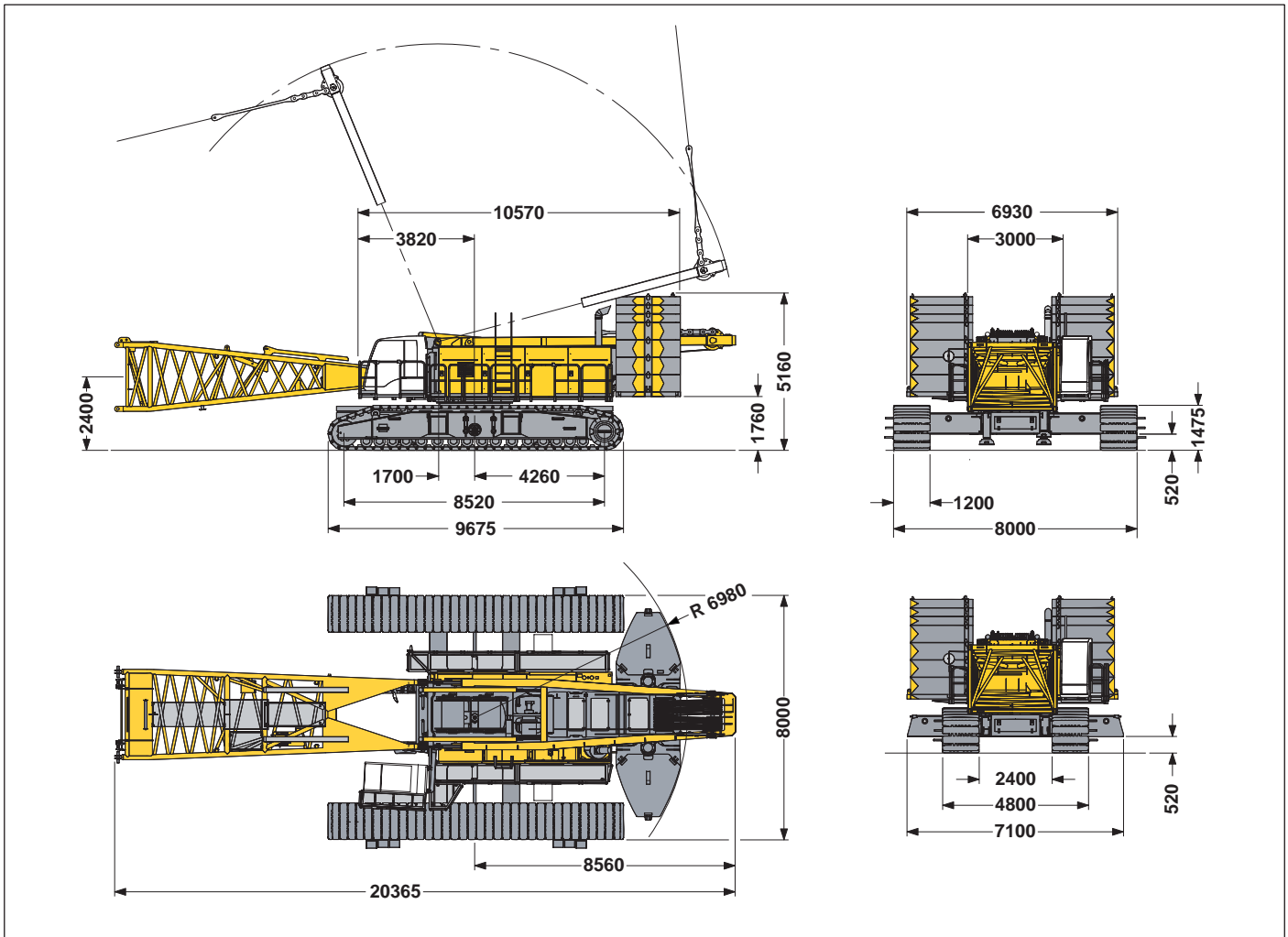
**LR 1300 W**  
Litronic®



**LIEBHERR**

# Dimensions

## Basic machine with undercarriage



## Operating weight

The operating weight includes the basic machine with crawlers, 2 main winches 150 kN and 20 m main boom, consisting of A-frame, boom foot (10 m), boom head (7 m), boom extension (3 m), 124 t basic counterweight, 52.6 t carbody counterweight and 300 t hook block.

Total weight \_\_\_\_\_ approx. 290 t

## Ground pressure

Ground bearing pressure \_\_\_\_\_ 1.45 kg/cm<sup>2</sup>

## Equipment

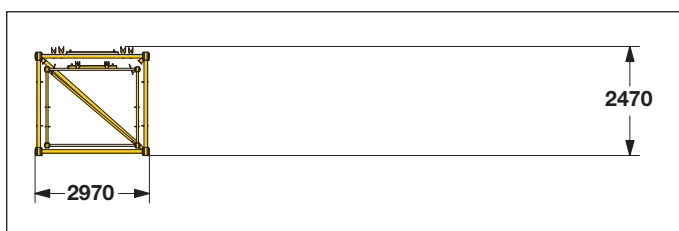
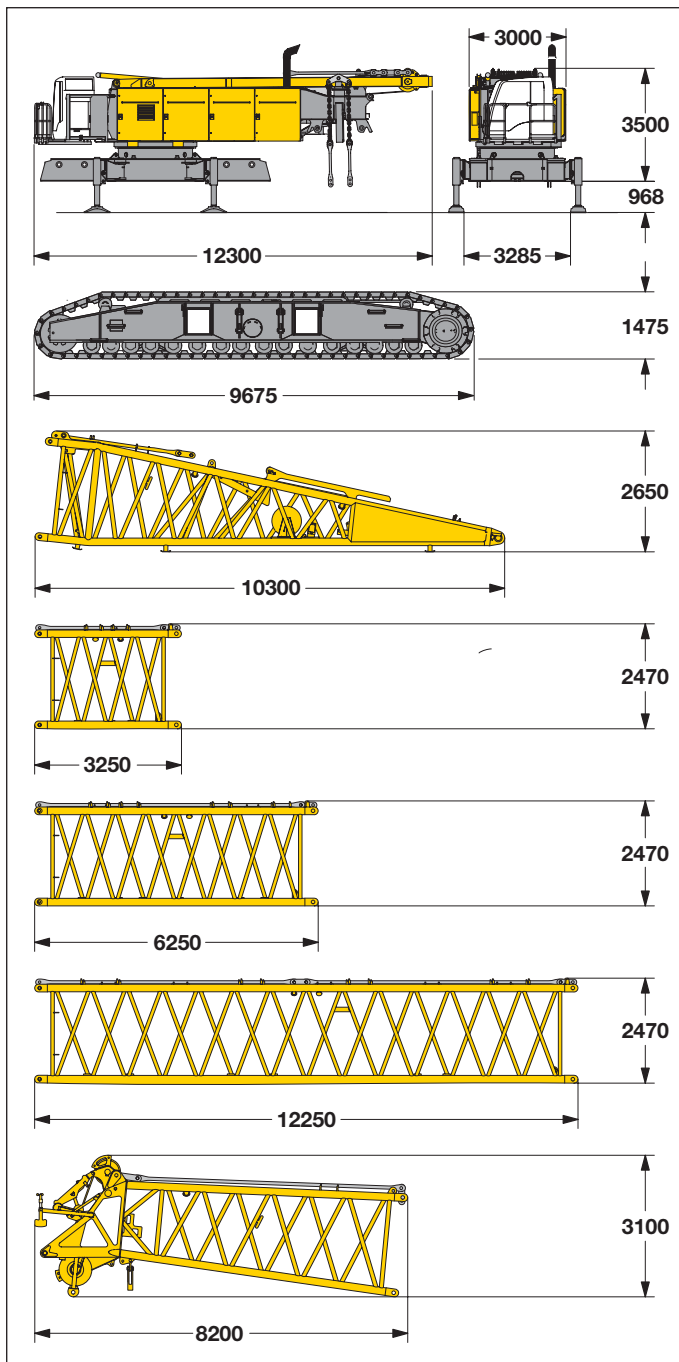
Main boom (No. 2821.xx) max. length \_\_\_\_\_ 98 m  
 Fixed jib (No. 0907.xx) \_\_\_\_\_ 7 m  
 Fixed jib (No. 1507.xx) \_\_\_\_\_ 8 m  
 Derrick (No. 2220.xx) max. length \_\_\_\_\_ 30 m  
 Auxiliary jib \_\_\_\_\_ 36 t

## Remarks

1. The lifting capacities stated are valid for lifting operation only (corresponding 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 center 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 (EN 13001-1; EN 13001-2).

# Transport dimensions and weights

## Basic machine and boom (No. 2821.xx)



\*) Including pendants

### Basic machine

with A-frame, 2x 150 kN crane winches, without boom foot, hoisting ropes, basic counterweight and crawlers

Width	3000 mm
Weight	46500 kg

### Crawler

Flat track shoes	1200 mm
Width	1200 mm
Weight	23000 kg

### Boom foot (No. 2821.30)

Width	2970 mm
Weight without winch	5700 kg
Weight incl. winch and rope	7400 kg

### Boom section (No. 2821.24) **3 m**

Width	2970 mm
Weight*	1200 kg

### Boom section (No. 2821.24) **6 m**

Width	2970 mm
Weight*	1900 kg

### Boom section (No. 2821.24) **12 m**

Width	2970 mm
Weight*	3350 kg

### Boom head (No. 2821.24)

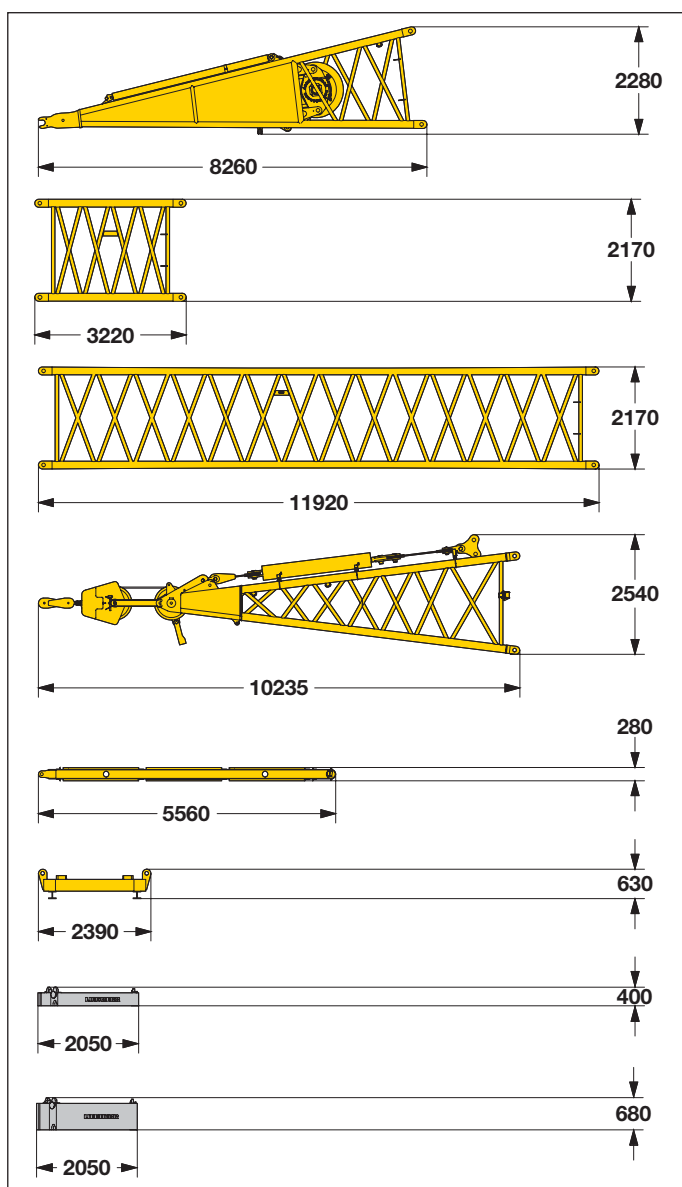
Width	2970 mm
Weight*	5400 kg

### Boom - luffing jib transport option

No. 2821.xx/2316.xx	12/12	6/6	3/3 m
Length	12500	6250	3250 mm
Weight*	5150	2850	1810 kg

# Transport dimensions and weights

## Derrick (No. 2220.xx)



→ including pendant straps; \*\*) including ballast ropes

### Derrick foot (No. 2220.24)

Width	2420 mm
Weight incl. rope	7800 kg

### Derrick section (No. 2220.24)

Width	2420 mm
Weight*	1030 kg

### Derrick section (No. 2220.22)

Width	2420 mm
Weight*	2560 kg

### Derrick head (No. 2220.22)

Width	2420 mm
Weight*	5400 kg

### Spacer frame

Width	2470 mm
Weight*	495 kg

### Counterweight frame

Width	5050 mm
Weight**	14360 kg

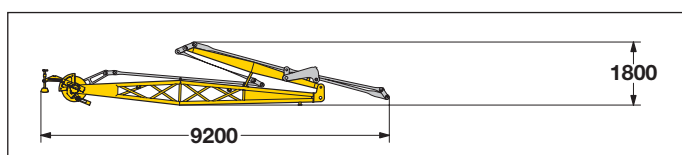
### Counterweight (5 t)

Width	2120 mm
Weight*	5000 kg

### Counterweight (10 t)

Width	2120 mm
Weight*	10000 kg

## Fixed jib (No. 0906.21)

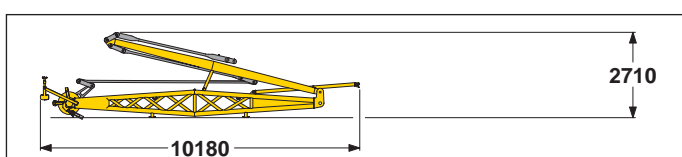


→ including pendants

### Fixed jib (No. 0906.21)

Width	1500 mm
Weight*	2400 kg

## Fixed jib (No. 1507.20)



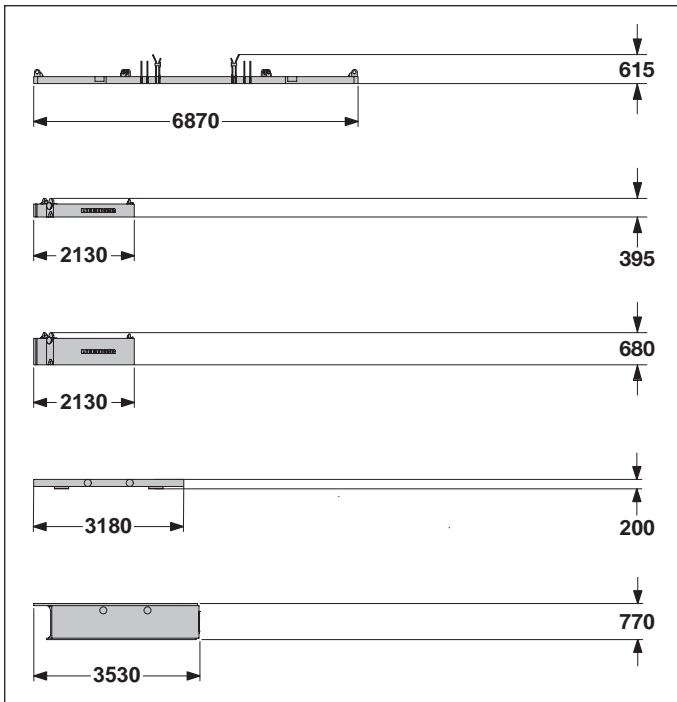
→ including carbon fibre pendants

### Fixed jib (No. 1507.20)

Width	2470 mm
Weight*	3300 kg

# Transport dimensions and weights

## Counterweights



### Counterweight **1x**

Width	2110 mm
Weight	14500 kg

### Counterweight **6x**

Width	2110 mm
Weight	5000 kg

### Counterweight **8x**

Width	2110 mm
Weight	10000 kg

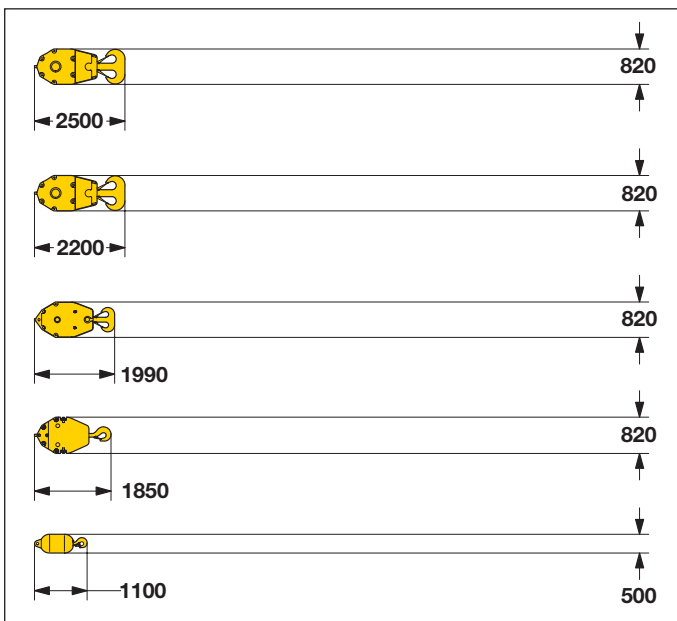
### Carbody counterweight **2x**

Width	1800 mm
Weight	6200 kg

### Carbody counterweight **2x**

Width	1800 mm
Weight	20100 kg

## Hooks



### 300 t hook block - 11 sheaves

Width	880	1230 mm
Weight	3200	5500 kg

### 160 t hook block - 5 sheaves

Width	500	660	820 mm
Weight	1600	2800	4000 kg

### 100 t hook block - 3 sheaves

Width	340	480	620 mm
Weight	1100	2050	3000 kg

### 50 t hook block - 1 sheave

Width	280	410	540 mm
Weight	800	1600	2400 kg

### 16 t single hook

Width	500 mm
Weight	900 kg

# Technical description



## Engine

Power rating according to ISO 9249, 450 kW (603 hp) at 1900 rpm  
Engine type ————— Liebherr D 9508 A7  
Fuel tank ————— 900 l capacity with continuous level indicator and reserve warning  
Engine complies with NRMM exhaust certification EPA / CARB Tier 3 and 97/68 EC Stage III.



## Hydraulic system

An axial displacement pump supplies the open loop hydraulic system for boom luffing, jib luffing and travel. The main hoist winches and swing are operated in a closed loop system. All functions can be operated simultaneously. To minimize peak pressure an automatic working pressure cut-off has been installed. All filters are electronically monitored.  
The use of synthetic environmentally friendly (biodegradable) oils is possible.  
Working pressure ————— max. 350 bar  
Oil tank capacity ————— 900 l



## Boom winch

Line pull ————— max. 217 kN  
Rope diameter ————— 24 mm  
Boom up ————— 127 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.  
Both swing modes are possible – speed control or free swing.  
A multi-disc holding brake acts automatically at zero swing motion.  
Swing speed from 0 – 1.8 rpm continuously variable.



## Main winches

Line pull (1st layer) ————— max. 215 kN  
Line pull (7th layer) ————— 150 kN  
Rope diameter ————— 28 mm  
Drum diameter ————— 730 mm  
Rope speed m/min ————— 0 – 138  
Rope capacity in 7 layers ————— 570 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 ————— 1200 mm (optional 1500 mm)  
Drive speed ————— 0 – 1.3 km/h



## Control

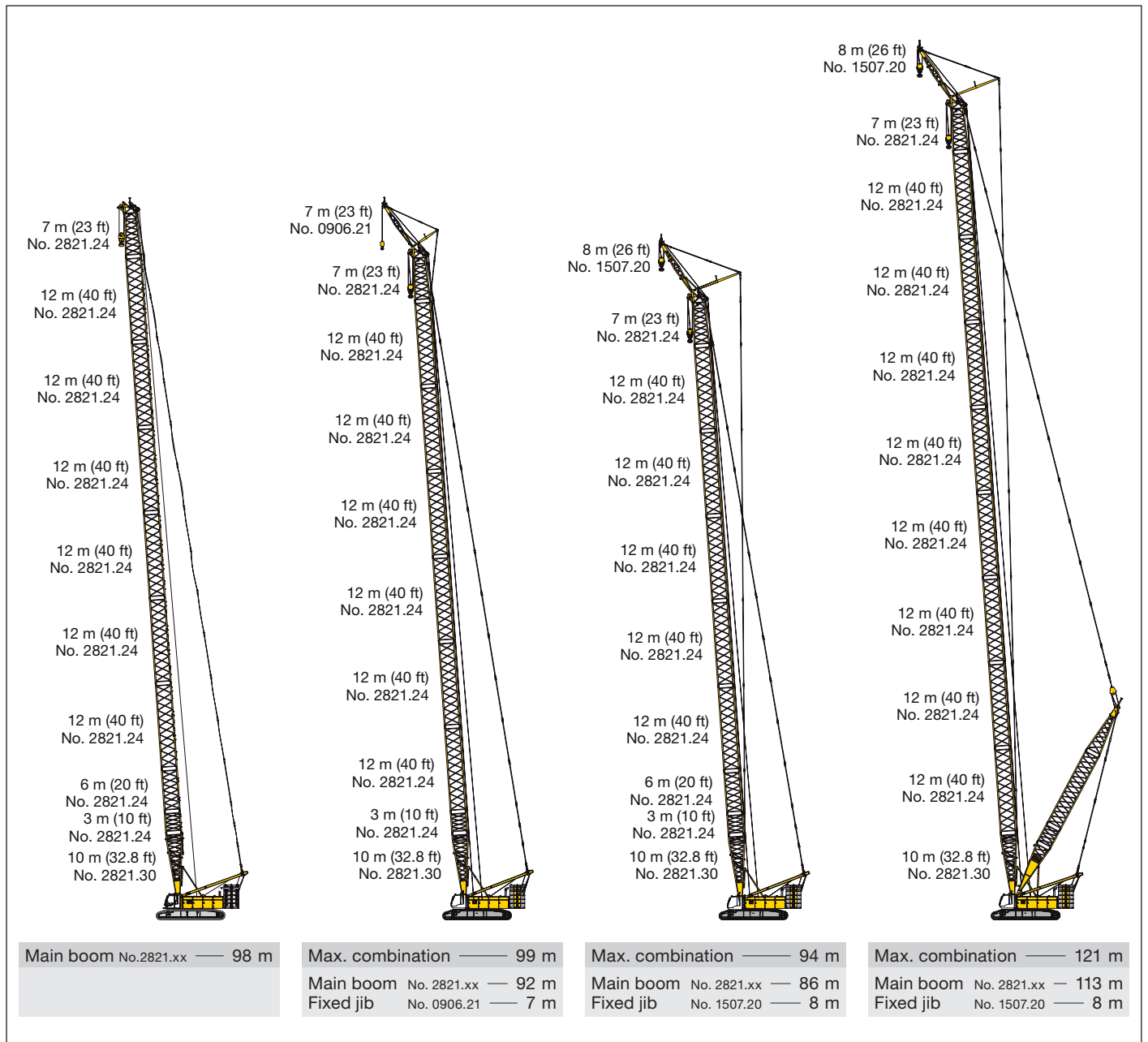
The control system – developed and manufactured by Liebherr – is designed to withstand extreme environmental conditions such as temperature, vibration and electromagnetic interference and to meet all requirements that are needed in heavy duty crane operation.  
Complete machine operating data are shown on a high resolution display. Standard operational information is displayed by means of graphical symbols, fault indications are displayed in plain text (more than 15 languages available).  
The cranes are equipped with proportional control for all main movements, which can be carried out simultaneously.  
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 foot pedals. Additionally, hand levers can be attached to the pedals.  
Remote control for assembly of counterweight and boom hinge pins.



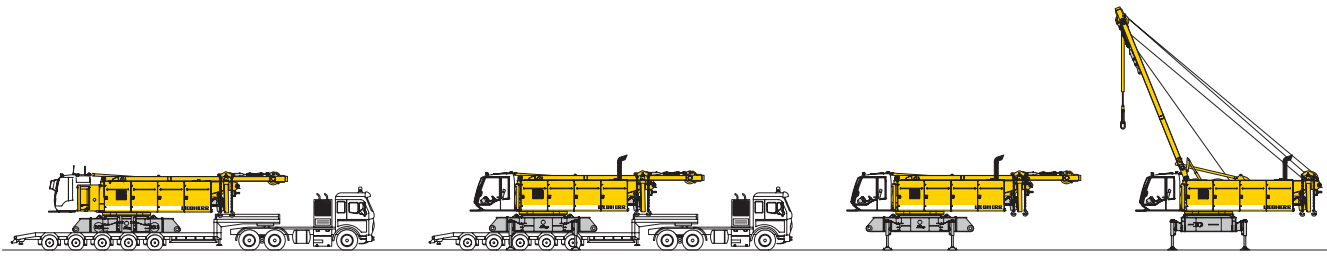
## Noise emission

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

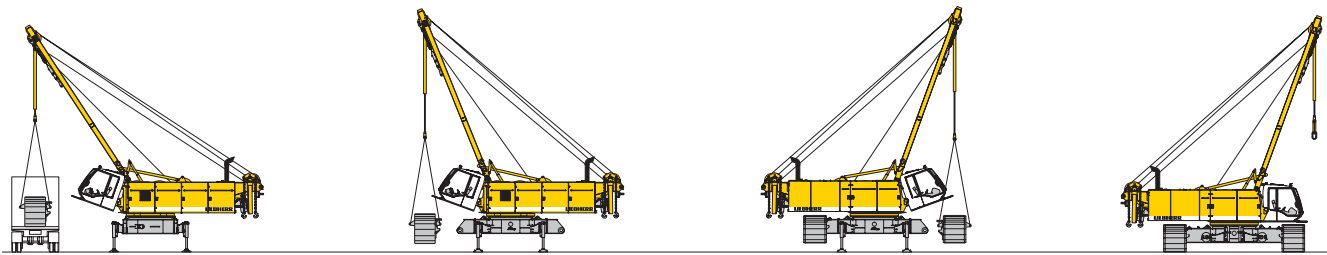
# Boom combinations



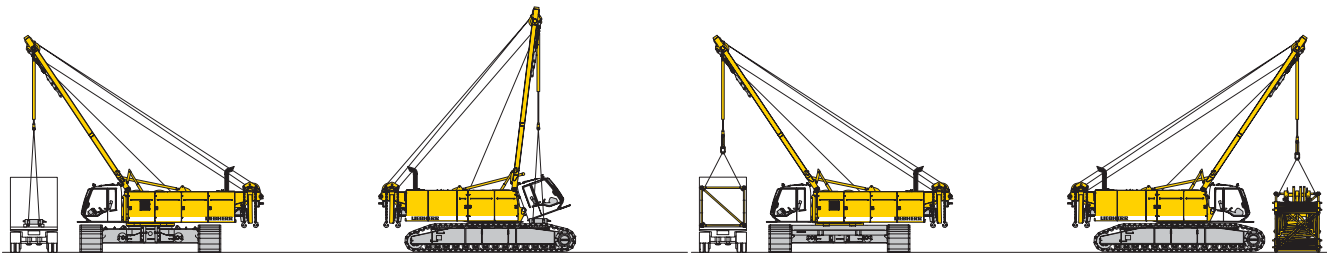
# Self assembly system



Unloading of basic machine

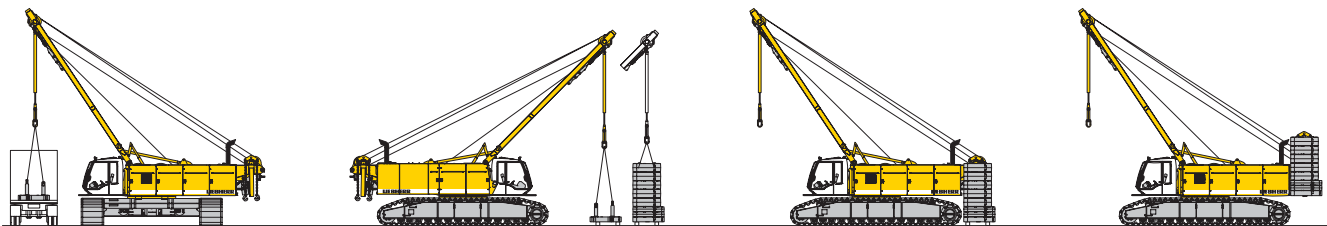


Unloading and assembly of crawlers



Unloading and assembly of carbody counterweight

Unloading and assembly of boom



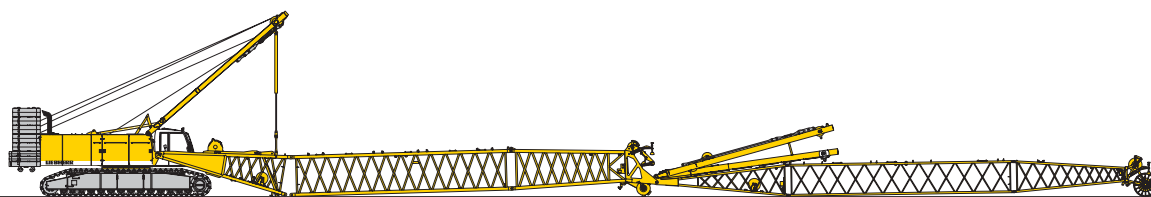
Unloading and assembly of counterweight



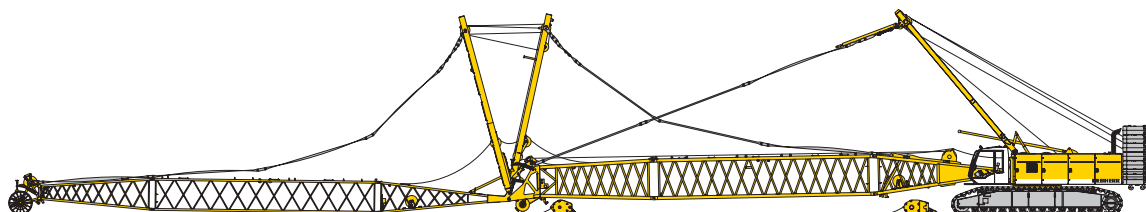
Unloading and assembly of boom foot



# Erecting of main boom to working position



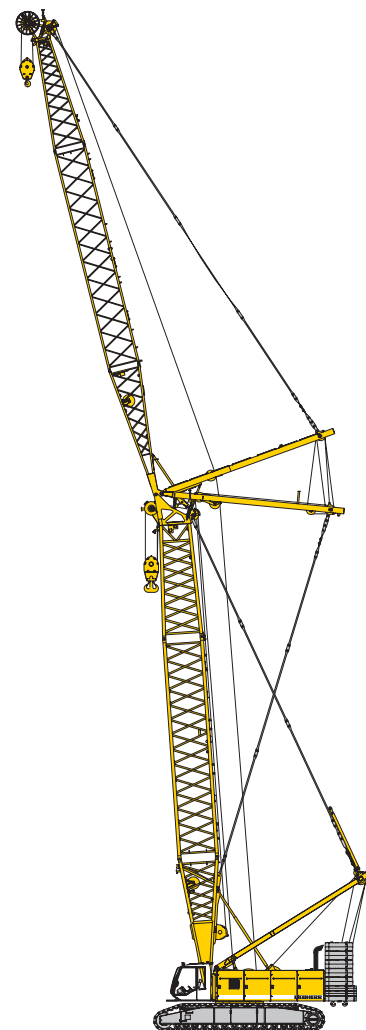
Assembly of boom



Reeving of hoist and luffing jib ropes



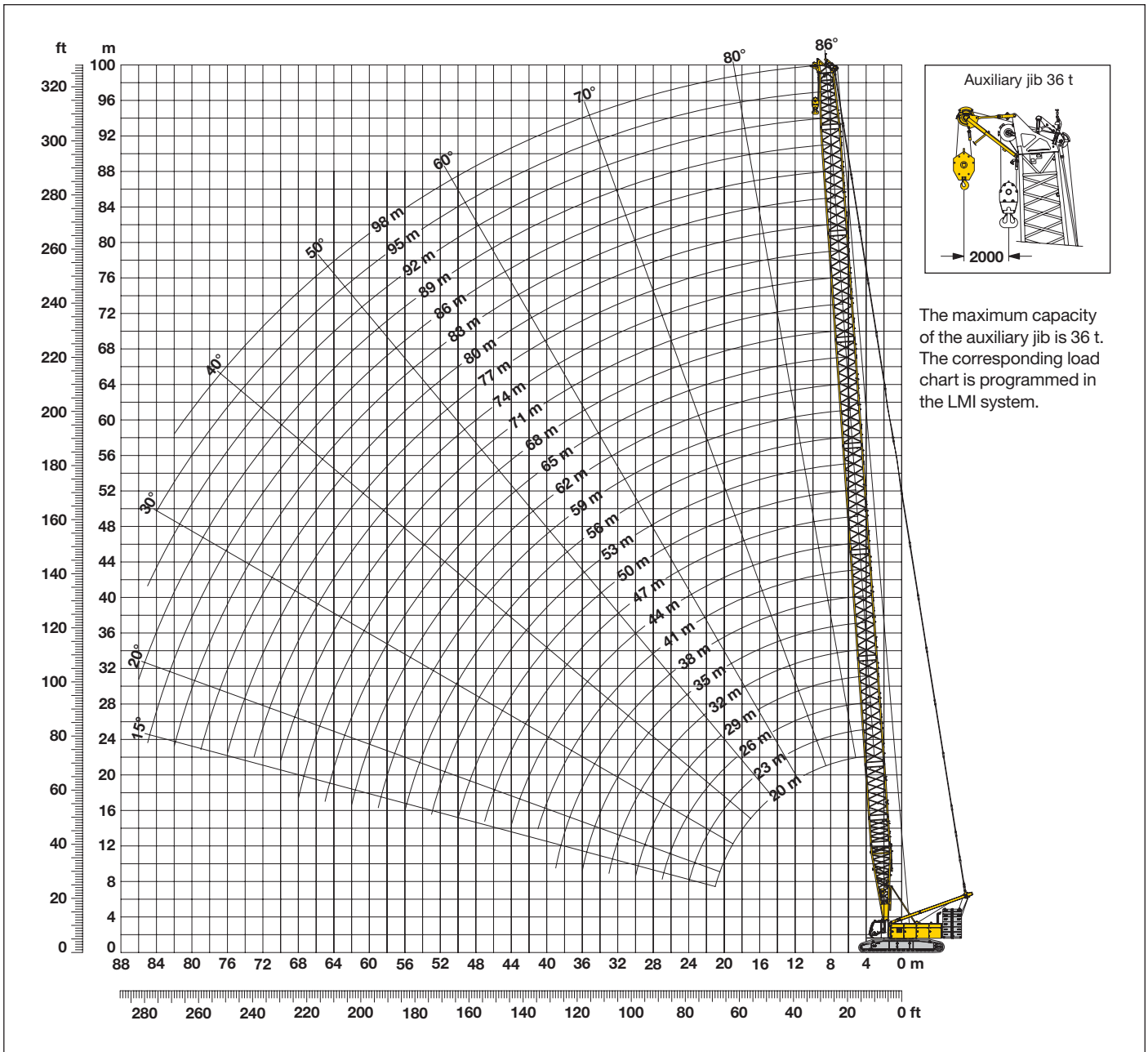
Erecting of main boom and luffing jib



Working position

# Main boom (No. 2821.xx) 86° - 15°

## 124 t counterweight and 52.6 t carbody counterweight



The maximum capacity of the auxiliary jib is 36 t. The corresponding load chart is programmed in the LMI system.

### Main boom configuration (Table 1 – No. 2821.xx)

Configuration for boom lengths between 20 m and 98 m

Length	Amount of boom extensions																										
	10 m	11 m	12 m	13 m	14 m	15 m	16 m	17 m	18 m	19 m	20 m	21 m	22 m	23 m	24 m	25 m	26 m	27 m	28 m	29 m	30 m	31 m					
Boom foot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Boom insert 3 m	1		1		1				1				1				1			1							
Boom insert 6 m		1	1				1	1				1	1				1	1		1	1						
Boom insert 12 m				1	1	1	1	1	1	2	2	2	3	3	3	3	4	4	4	5	5	5					
Boom head 7 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Boom length (m)	20	23	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68	71	74	77	80	83	86	89	92	95	98

# Lift chart for main boom (No. 2821.xx)

104 t counterweight and 52.6 t carbody counterweight

Radius (m)	Boom length in (m)															Radius (m)	
	20	23	26	32	38	44	50	56	62	68	74	80	86	92	95		
4.3	286.2																4.3
5	286.2	300.5	296.8														5
6	258.4	259.3	257.5	245.6	237.4	212.6											6
7	225.6	225.6	222.7	216.1	207.6	198.5	189.6	169.5									7
8	196.1	196.0	195.7	191.4	185.2	179.2	169.5	162.2	150.4	127.8							8
9	173.1	173.0	172.7	172.4	166.5	161.0	153.3	145.7	138.6	125.7	109.1	97.2	83.6				9
10	154.6	154.6	154.3	154.0	151.4	144.0	137.2	130.9	124.9	118.3	104.7	96.5	83.6	73.1	67.8		10
14	107.2	107.2	106.9	106.7	103.2	99.3	95.5	91.9	88.5	85.2	82.0	79.0	74.8	67.7	63.2		14
16	89.3	89.5	89.5	89.5	88.6	85.5	82.4	79.5	76.7	74.0	71.3	68.8	66.4	62.2	59.0		16
18	75.7	76.0	76.0	76.0	75.7	74.8	72.2	69.8	67.4	65.1	62.8	60.7	58.5	56.5	54.5		18
20	65.4	65.7	65.7	65.7	65.4	65.2	64.0	61.9	59.8	57.8	55.8	54.0	52.0	50.2	49.3		20
24		51.0	51.1	51.2	50.9	50.6	50.2	49.8	48.4	46.8	45.2	43.6	42.0	40.5	39.8		24
26			45.7	45.9	45.6	45.3	44.9	44.5	43.9	42.5	41.0	39.5	38.1	36.7	36.0		26
32				34.2	34.0	33.8	33.3	32.9	32.4	32.0	31.4	30.2	28.9	27.8	27.2		32
38					26.3	26.2	25.8	25.4	24.8	24.4	23.8	23.3	22.5	21.5	20.9		38
44						20.7	20.4	20.0	19.5	19.0	18.5	18.0	17.4	16.8	16.3		44
50							16.3	16.0	15.5	15.1	14.6	14.1	13.5	13.0	12.7		50
55								13.4	13.0	12.5	12.0	11.5	10.9	10.4	10.1		55
60									10.8	10.3	9.8	9.3	8.7	8.2	7.9		60
65										8.5	8.0	7.5	6.9	6.4	6.1		65
70											6.4	5.9	5.4	4.8	4.6		70
75												4.6	4.0	3.4	3.0		75
80													2.6				80

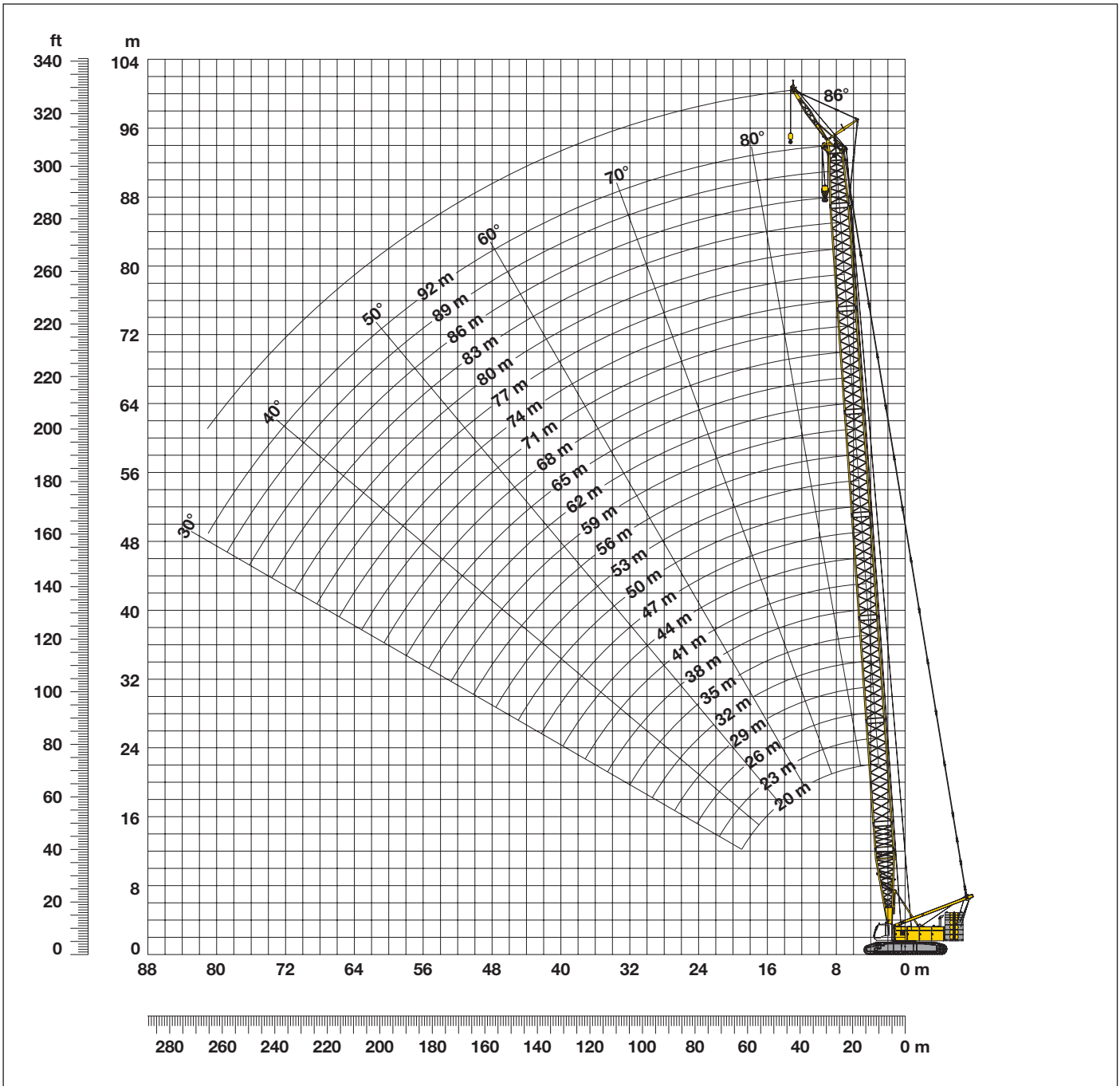
# Lift chart for main boom (No. 2821.xx)

124 t counterweight and 52.6 t carbody counterweight

Radius (m)	Boom length in (m)															Radius (m)	
	20	23	26	32	38	44	50	56	62	68	74	80	86	92	98		
6.8								169.5									6.8
8							169.5	162.2	150.4	127.8							8
9					166.5	161.0	155.0	147.0	139.3	125.7	109.1	97.2	83.6				9
10				156.8	152.7	146.4	140.8	135.7	128.8	118.3	104.7	96.5	83.6	73.1	63.7		10
12	136.9	136.9	134.9	133.1	127.8	124.7	120.3	114.9	110.0	105.1	96.1	90.9	79.5	70.8	62.7		12
14	115.7	115.7	115.4	113.1	110.9	107.0	103.6	100.4	95.6	90.8	84.1	82.3	74.8	67.7	59.8		14
16	99.7	99.8	99.5	98.5	96.1	94.4	90.6	87.3	84.2	80.7	75.1	72.7	67.4	62.2	57.0		16
18	86.0	86.2	86.2	86.2	84.7	83.1	80.9	77.2	74.4	71.5	67.9	65.8	61.7	57.1	52.6		18
20	74.4	74.7	74.7	74.7	74.4	74.0	72.1	69.6	66.7	63.9	60.9	59.2	56.8	53.2	49.0		20
22		65.6	65.6	65.7	65.4	65.1	64.7	63.0	60.8	57.9	55.1	53.4	51.3	48.8	46.3		22
24		58.2	58.3	58.4	58.1	57.9	57.4	57.1	55.4	53.1	50.5	48.6	46.5	44.4	42.1		24
26			52.3	52.5	52.2	51.9	51.4	51.1	50.6	48.7	46.5	44.8	42.6	40.6	38.5		26
32				39.4	39.2	39.0	38.5	38.1	37.6	37.2	36.6	35.4	33.8	32.2	30.4		32
38					30.6	30.5	30.1	29.7	29.1	28.7	28.1	27.6	26.9	25.9	24.6		38
44						24.4	24.1	23.7	23.2	22.7	22.1	21.6	21.1	20.6	19.6		44
50							19.5	19.2	18.7	18.3	17.7	17.2	16.6	16.1	15.5		50
55								16.2	15.8	15.3	14.8	14.3	13.8	13.2	12.6		55
60									13.4	13.0	12.4	11.9	11.4	10.8	10.2		60
65										10.9	10.4	9.9	9.3	8.7	7.9		65
70											8.6	8.1	7.4	6.7	5.9		70
75												6.3	5.6	5.0	4.2		75
80													4.1	3.4	2.7		80
85														2.7	2.1		85

# Working range - main boom (No. 2821.xx)

Main boom 88° - 30°



## Main boom configuration

Configuration for boom lengths between 20 m and 92 m

Component	Length	Amount of boom extensions																											
		10 m	13 m	16 m	19 m	22 m	25 m	28 m	31 m	34 m	37 m	40 m	43 m	46 m	49 m	52 m	55 m	58 m	61 m	64 m	67 m	70 m	73 m	76 m	79 m	82 m	85 m	88 m	91 m
Boom foot	10 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom insert	3 m	1		1		1		1		1		1		1		1		1		1		1		1		1		1	
Boom insert	6 m		1	1		1		1		1		1		1		1		1		1		1		1		1		1	
Boom insert	12 m				1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	6
Boom head	7 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length (m)		20	23	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68	71	74	77	80	83	86	89	92			

# Lift chart - fixed jib 7 m (No. 0906.21) offset 30°

## 124 t counterweight and 52.6 t carbody counterweight

### Main boom 38 m

Radius (m)	(t)
11	75.0
12	72.9
14	69.0
16	65.9
18	62.6
20	60.1
24	55.3
26	52.9
28	47.8
30	43.4
32	39.7
34	36.4
38	31.0
42	26.6

### Main boom 50 m

Radius (m)	(t)
10	78.6
12	74.5
14	71.8
16	68.6
18	66.3
20	62.7
24	57.4
26	52.1
30	42.6
34	35.6
38	30.2
42	25.9
46	22.4
50	19.5

### Main boom 62 m

Radius (m)	(t)
8.5	81.5
12	75.5
14	72.9
16	70.5
18	68.0
20	66.0
24	54.8
26	49.9
30	41.8
34	34.7
38	29.4
42	25.0
50	18.6
60	13.0

### Main boom 68 m

Radius (m)	(t)
8.7	80.7
12	75.8
14	73.0
16	70.4
18	65.7
20	62.0
24	53.2
26	48.4
30	40.6
38	28.8
42	24.6
50	18.1
60	12.6
65	10.5

### Main boom 71 m

Radius (m)	(t)
8.8	80.3
12	75.7
14	73.0
16	71.0
18	65.3
20	60.9
24	52.3
26	47.6
30	39.9
34	33.9
42	24.3
50	17.9
60	12.4
70	8.3

### Main boom 74 m

Radius (m)	(t)
8.9	77.6
12	73.3
14	70.3
16	68.2
18	63.3
20	59.0
24	51.5
26	46.8
30	39.2
34	33.3
42	24.1
50	17.6
60	12.1
70	7.9

### Main boom 77 m

Radius (m)	(t)
9	73.7
12	68.7
14	65.2
16	62.7
18	59.3
20	56.0
24	50.7
26	46.1
30	38.6
34	32.7
42	23.8
50	17.4
60	11.9
75	5.9

### Main boom 80 m

Radius (m)	(t)
9.1	68.4
12	63.7
14	60.1
16	57.5
18	54.9
20	52.3
24	48.5
26	45.0
30	37.9
34	32.1
42	23.6
50	17.1
60	11.6
75	5.5

### Main boom 83 m

Radius (m)	(t)
9.2	65.7
14	58.6
16	56.2
18	53.9
20	51.3
24	47.4
26	44.6
30	37.3
34	31.5
42	23.2
50	16.8
60	11.3
70	7.0
80	3.5

### Main boom 86 m

Radius (m)	(t)
9.4	62.3
14	55.8
16	53.4
18	51.6
20	49.3
24	45.7
26	43.8
30	36.6
34	30.9
42	22.7
50	16.5
60	11.0
70	6.6
80	3.2

### Main boom 89 m

Radius (m)	(t)
9.5	58.1
14	51.9
16	49.4
18	47.6
20	45.3
24	41.8
26	40.5
30	35.1
34	30.4
42	22.2
50	16.3
60	10.8
70	6.3
80	2.9

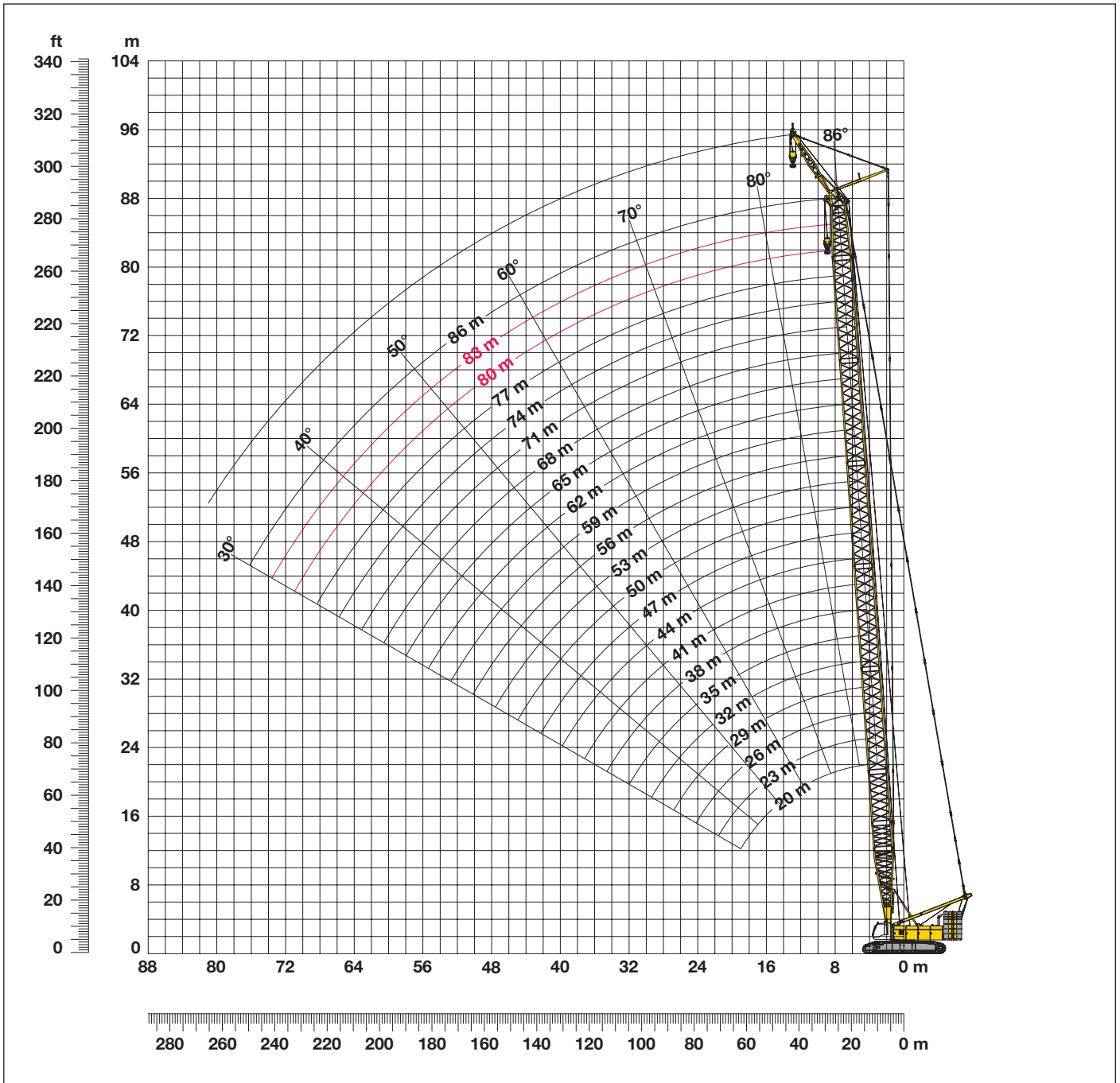
### Main boom 92 m

Radius (m)	(t)
9.6	55.8
14	50.6
16	48.4
18	46.7
20	44.8
24	41.5
28	38.3
30	35.3
34	29.8
42	21.7
50	15.9
60	10.4
70	5.9
80	2.5

Capacities in metric tons with fixed jib (No. 0906.21) 124 t counterweight + 52.6 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 - main boom (No. 2821.xx)

Main boom 88° - 20°



## Main boom configuration

Configuration for boom lengths between 20 m and 86 m

	Length	Amount of boom extensions																						
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Boom foot	10 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	x	x	1
Boom insert	3 m	1		1		1		1		1		1		1		1		1		1		x	x	1
Boom insert	6 m		1	1		1	1		1	1		1	1		1	1		1	1		1	x	x	1
Boom insert	12 m				1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	x	x	5
Boom head	7 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	x	x	1
Boom length (m)		20	23	26	29	32	35	38	41	44	47	50	53	56	59	62	65	68	71	74	77	80*	83*	86

\*) not possible

# Lift chart - fixed jib 8 m (No. 1507.20) offset 30°

## 124 t counterweight and 52.6 t carbody counterweight

### Main boom 38 m

Radius (m)	(t)
10	116.4
12	114.6
14	102.5
16	93.5
18	82.0
20	73.1
24	58.6
26	52.5
28	47.4
30	43.0
32	39.3
34	36.0
38	30.6
42	26.3

### Main boom 44 m

Radius (m)	(t)
10	116.5
12	116.5
14	105.2
16	91.2
18	81.0
20	72.0
24	58.3
26	52.2
30	42.7
34	35.6
38	30.2
42	26.0
46	22.4
48	20.8

### Main boom 50 m

Radius (m)	(t)
9	116.9
12	110.7
14	103.5
16	89.4
18	79.1
20	70.8
24	57.5
26	51.7
30	42.2
34	35.2
38	29.7
42	25.5
46	21.9
50	19.0

### Main boom 56 m

Radius (m)	(t)
8.2	115.8
12	104.6
14	97.6
16	87.4
18	77.0
20	68.8
24	55.8
26	50.8
30	41.8
34	34.7
38	29.4
46	21.5
50	18.6
55	15.5

### Main boom 59 m

Radius (m)	(t)
8.3	109.0
12	99.7
14	92.4
16	84.6
18	75.3
20	67.7
24	54.9
26	50.0
30	41.6
34	34.5
38	29.1
46	21.3
50	18.3
60	12.8

### Main boom 62 m

Radius (m)	(t)
8.5	102.3
12	94.8
14	87.5
16	81.5
18	73.1
20	66.5
24	54.1
26	49.1
30	41.2
34	34.2
38	28.8
46	21.0
50	18.1
60	12.5

### Main boom 65 m

Radius (m)	(t)
8.6	93.9
12	87.5
14	81.6
16	77.5
18	70.2
20	64.4
24	53.3
26	48.4
30	40.5
38	28.6
46	20.8
50	17.9
60	12.3
65	10.2

### Main boom 68 m

Radius (m)	(t)
8.7	88.5
12	82.4
14	76.8
16	72.6
18	67.1
20	61.9
24	52.4
26	47.6
30	39.8
38	28.3
46	20.5
50	17.6
60	12.0
65	9.9

### Main boom 71 m

Radius (m)	(t)
8.8	83.1
12	77.5
14	72.4
16	68.0
18	63.5
20	58.8
24	51.5
26	46.8
30	39.2
38	28.1
46	20.3
50	17.3
60	11.8
70	7.5

### Main boom 74 m

Radius (m)	(t)
8.9	78.3
12	72.9
14	68.2
16	63.6
18	59.7
20	55.0
24	48.2
26	44.7
30	38.2
38	27.8
46	20.0
50	17.0
60	11.5
75	5.3

### Main boom 77 m

Radius (m)	(t)
9	75.6
12	72.5
14	69.9
16	67.0
18	64.6
20	59.1
24	49.9
26	45.3
30	37.8
38	27.4
42	23.3
50	16.8
60	11.3
75	5.1

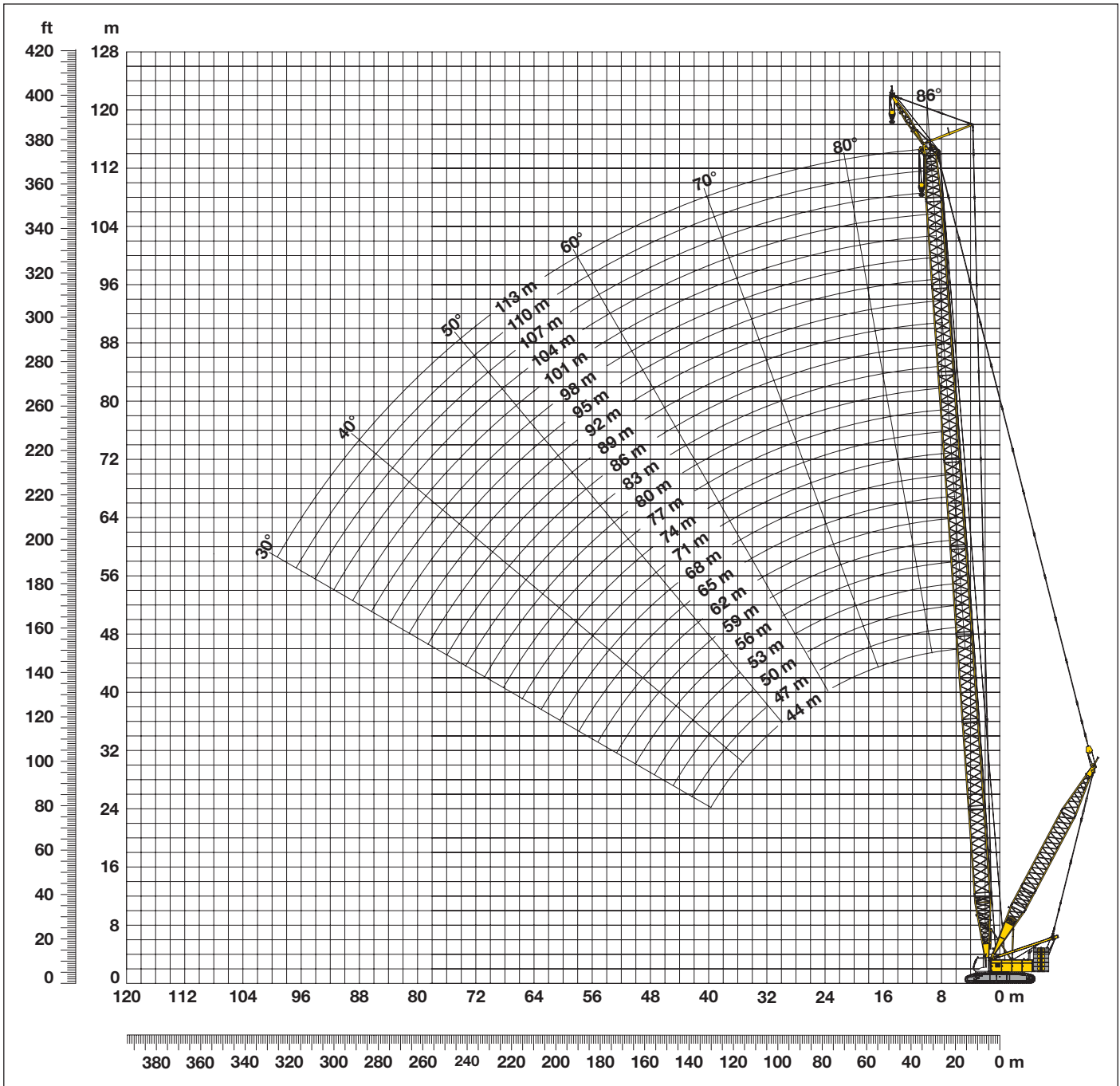
### Main boom 86 m

Radius (m)	(t)
9.4	64.5
14	61.3
16	59.1
18	57.5
20	54.7
24	46.6
26	43.1
30	35.8
38	25.7
46	18.7
50	15.9
60	10.2
70	5.7
80	2.3

Capacities in metric tons with fixed jib (No. 1507.20) 124 t counterweight + 52.6 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 - main boom (No. 2821.xx) 87° - 30°

## 124 t counterweight and 52.6 t carbody counterweight



Booms are self-erecting up to a length of 68 m. For boom lengths exceeding 68 m please refer to self-erect charts in load chart manual.

### Main boom configuration

Configuration for boom lengths between 44 m and 113 m

	Length																								
Boom foot	10 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section	3 m	1		1		1		1		1		1		1		1		1		1		1		1	
Boom section	6 m		1	1		1	1		1	1		1	1		1	1		1	1		1	1		1	1
Boom section	12 m	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8
Boom head	7 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length (m)		44	47	50	53	56	59	62	65	68	71	74	77	80	83	86	89	92	95	98	101	104	107	110	113



# Lift chart - fixed jib 8 m (No. 1507.20) offset 30°

## 124 t counterweight and 52.6 t carbody counterweight

### Main boom 44 m

Radius (m)	(t)
13	90.0
14	82.0
16	69.0
18	59.4
20	51.5
24	43.9
26	39.1
28	35.2
30	31.7
32	29.2
36	24.2
40	20.2
44	17.0
48	14.6

### Main boom 56 m

Radius (m)	(t)
12	100.0
14	81.7
16	68.6
18	58.8
20	50.9
24	39.6
26	35.2
30	31.0
32	28.5
36	23.5
40	19.5
44	16.3
48	13.9
55	10.0

### Main boom 62 m

Radius (m)	(t)
11	111.8
12	99.8
14	81.4
16	68.3
18	58.5
20	50.4
24	39.1
26	34.7
30	30.5
36	23.0
40	19.0
48	13.4
55	9.5
60	7.3

### Main boom 68 m

Radius (m)	(t)
11	101.0
12	99.6
14	81.2
16	68.0
18	58.1
20	50.1
24	38.7
26	34.3
30	27.8
36	22.5
40	18.5
48	13.0
55	9.1
65	5.1

### Main boom 74 m

Radius (m)	(t)
10,4	91.2
12	90.5
14	80.8
16	67.6
18	57.7
20	49.6
24	38.2
26	33.8
30	27.3
36	22.0
40	18.0
48	12.4
65	4.5
70	2.9

### Main boom 80 m

Radius (m)	(t)
10,7	81.7
12	80.8
14	79.2
16	67.3
18	57.3
20	49.2
24	37.8
26	33.3
30	26.8
36	21.2
40	17.5
48	11.9
65	4.0
70	2.5

### Main boom 86 m

Radius (m)	(t)
11	72.7
14	70.9
16	66.9
18	56.9
20	48.7
24	37.2
26	32.7
30	26.2
36	18.6
40	16.9
44	14.1
48	11.3
55	7.5
65	3.5

### Main boom 92 m

Radius (m)	(t)
11,3	64.9
14	63.0
16	60.9
18	56.5
20	48.3
24	36.8
26	32.3
30	25.7
36	18.1
40	16.1
44	13.6
48	10.8
55	6.9
65	2.9

### Main boom 98 m

Radius (m)	(t)
11,7	57.7
14	56.0
15	55.4
16	54.4
18	52.9
20	47.8
24	36.2
26	31.7
30	25.1
36	17.5
40	14.2
48	10.2
55	6.3
65	2.3

### Main boom 104 m

Radius (m)	(t)
12	51.1
14	49.9
16	48.4
18	46.7
20	45.4
24	35.8
26	31.2
30	24.6
36	16.9
40	13.6
44	10.5
48	9.6
55	5.7
60	3.5

### Main boom 110 m

Radius (m)	(t)
12,3	45.1
14	44.3
16	42.8
18	41.0
20	39.7
24	35.2
26	30.7
30	24.0
36	16.3
40	13.0
44	9.8
48	8.9
55	5.1
60	2.9

### Main boom 113 m

Radius (m)	(t)
12,5	42.4
14	42.0
16	40.3
18	38.5
20	37.1
24	34.4
26	30.5
30	23.8
36	16.1
40	12.8
44	9.6
48	8.7
55	4.9
60	2.7

Capacities in metric tons with fixed jib (No. 1507.20) 124 t counterweight + 52.6 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 8 m (No. 1507.20) offset 30°

**124 t counterweight, 52.6 t carbody counterweight and 120 t suspended counterweight at 13 m radius**

## Main boom 44 m

Radius (m)	(t)
13	116.5
14	113.7
16	109.2
18	105.3
20	100.4
24	93.6
26	90.0
28	86.9
30	83.7
32	77.4
36	67.0
40	58.7
44	51.8
48	46.1

## Main boom 56 m

Radius (m)	(t)
12	116.7
14	116.3
16	112.7
18	108.0
20	104.5
24	97.1
26	94.1
30	83.0
34	71.2
38	61.7
42	54.3
46	48.1
50	43.0
55	37.5

## Main boom 62 m

Radius (m)	(t)
11	112.3
14	111.0
16	109.8
18	106.3
20	103.5
24	98.3
26	95.1
30	82.6
34	70.7
38	61.2
42	53.8
46	47.6
50	42.5
60	32.5

## Main boom 68 m

Radius (m)	(t)
11	101.0
14	99.6
16	98.7
18	96.1
20	93.4
24	89.0
26	86.2
30	79.4
34	70.2
38	60.8
42	53.4
50	42.1
60	32.1
65	28.4

## Main boom 74 m

Radius (m)	(t)
10.4	91.2
14	89.2
16	87.9
18	86.2
20	83.3
24	79.2
26	76.9
30	72.3
38	60.3
42	52.8
50	41.5
60	31.6
70	24.6
75	21.7

## Main boom 80 m

Radius (m)	(t)
10.7	81.7
14	79.2
16	77.2
18	75.7
20	73.3
24	69.3
26	67.9
30	63.5
38	58.0
42	52.3
50	41.0
60	31.1
70	24.1
80	18.7

## Main boom 86 m

Radius (m)	(t)
11	72.7
14	70.9
16	68.8
18	67.2
20	65.3
24	61.1
26	59.6
30	55.9
34	52.4
42	49.1
50	40.5
60	30.5
70	23.6
85	15.9

## Main boom 92 m

Radius (m)	(t)
11.3	64.9
16	60.9
18	59.3
20	58.0
24	53.8
26	52.2
30	49.2
34	45.9
42	41.6
50	39.6
60	30.0
70	23.1
80	17.7
90	13.6

## Main boom 98 m

Radius (m)	(t)
11.7	57.7
16	54.4
18	52.9
20	51.5
24	49.3
26	48.1
30	46.3
34	44.6
42	43.1
50	39.3
60	29.6
70	22.5
80	17.1
95	11.2

## Main boom 104 m

Radius (m)	(t)
12	51.1
16	48.4
18	46.7
20	45.4
24	43.3
26	42.5
30	41.1
42	38.9
50	38.4
60	29.0
70	21.9
80	16.6
90	12.5
100	9.1

## Main boom 110 m

Radius (m)	(t)
12.3	45.1
16	42.8
18	41.0
20	39.7
24	37.5
26	36.8
30	35.1
42	32.7
50	32.7
60	28.4
70	21.3
80	15.9
90	11.9
105	7.0

## Main boom 113 m

Radius (m)	(t)
12.5	42.4
16	40.3
18	38.5
20	37.1
24	35.0
26	34.3
30	32.6
42	30.1
50	30.0
60	27.9
70	21.0
80	15.7
90	11.7
105	6.8

Capacities in metric tons with fixed jib (No. 1507.20) 124 t counterweight, 52.6 t carbody counterweight and 120 t suspended counterweight at 13 m radius. 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.



