



CRANE SPECIFICATION

LIEBHERR LR1300W

COMPREHENSIVE LIFTING SOLUTIONS

We look forward to providing a full heavy lift engineering and crane solution for your next project. Our heavy lift engineers and on site personnel are experienced in managing and organising highly de-manding lift requirements.

Contact us to discuss your lifting requirements and a free quote.

BRISBANE (HQ)

07 3907 5800
37 Paringa Rd, Murarrie, QLD, 4172

BALLINA

02 6686 7748
5 Convair Ave, Ballina, NSW, 2478

GLADSTONE

07 4829 5219
7 Morgan St, Gladstone, QLD, 4680

ROMA

07 4622 5522
8 Wormwell Drive, Roma QLD 4455

TOWNSVILLE

07 4779 4088
16 Mackley St, Garbutt QLD 4814

RICHLANDS

07 3907 5800
462 Boundary Rd, Richlands QLD 4077

ROCKHAMPTON

07 4939 1095
39-42 Johnson St, Park Hurst, QLD, 4702

BILOELA

07 4939 1095
67 Dawson Hwy, Biloela QLD 4715

SUNSHINE COAST

0409 595 618
562 Maroochydore Rd, Kunda Park, QLD, 4556

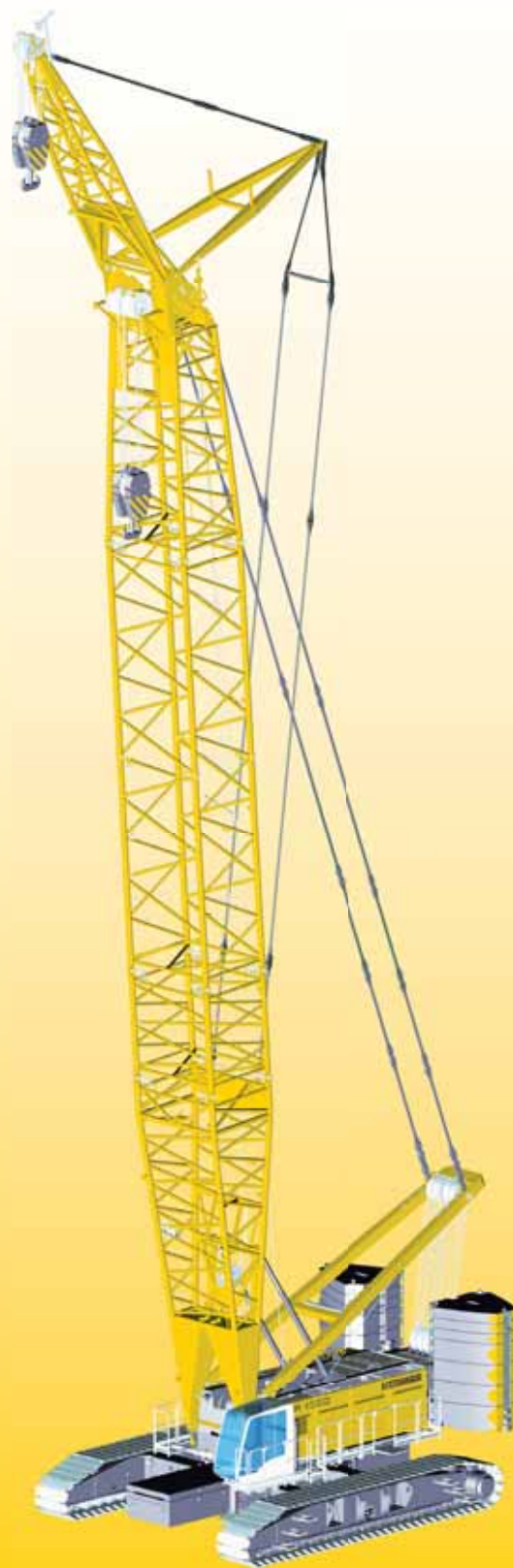
MACKAY

07 4952 6998
135 Diesel Drive, Paget QLD 4740



Technical data
Hydraulic lift crane

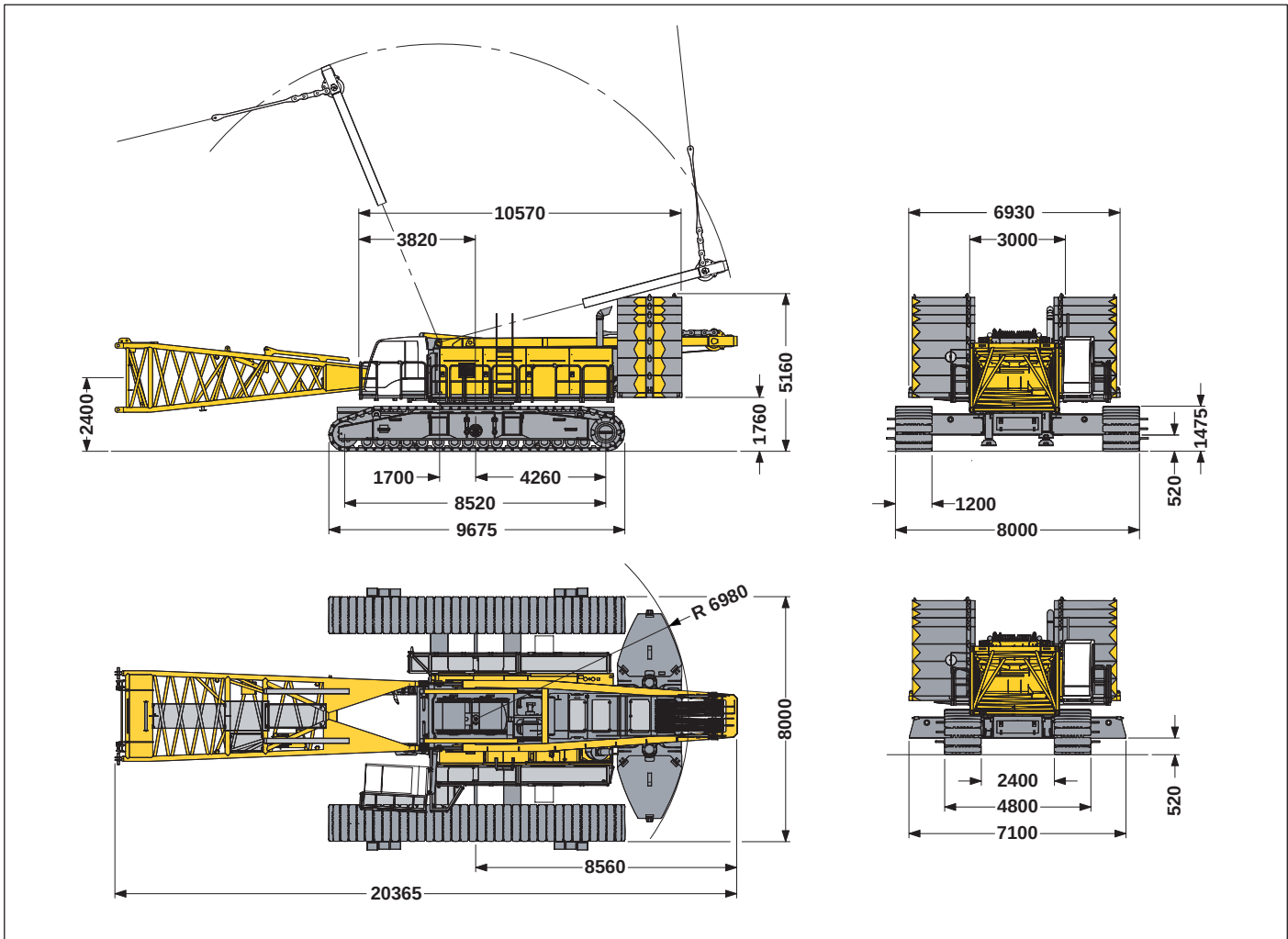
LR 1300 W
Litronic®



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/cm²

Equipment

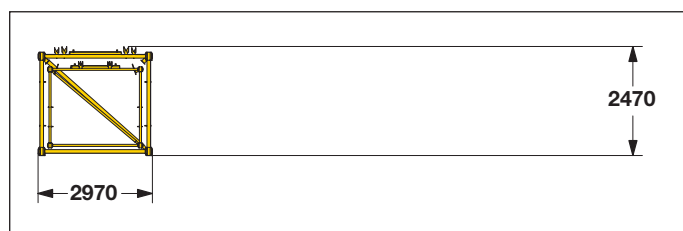
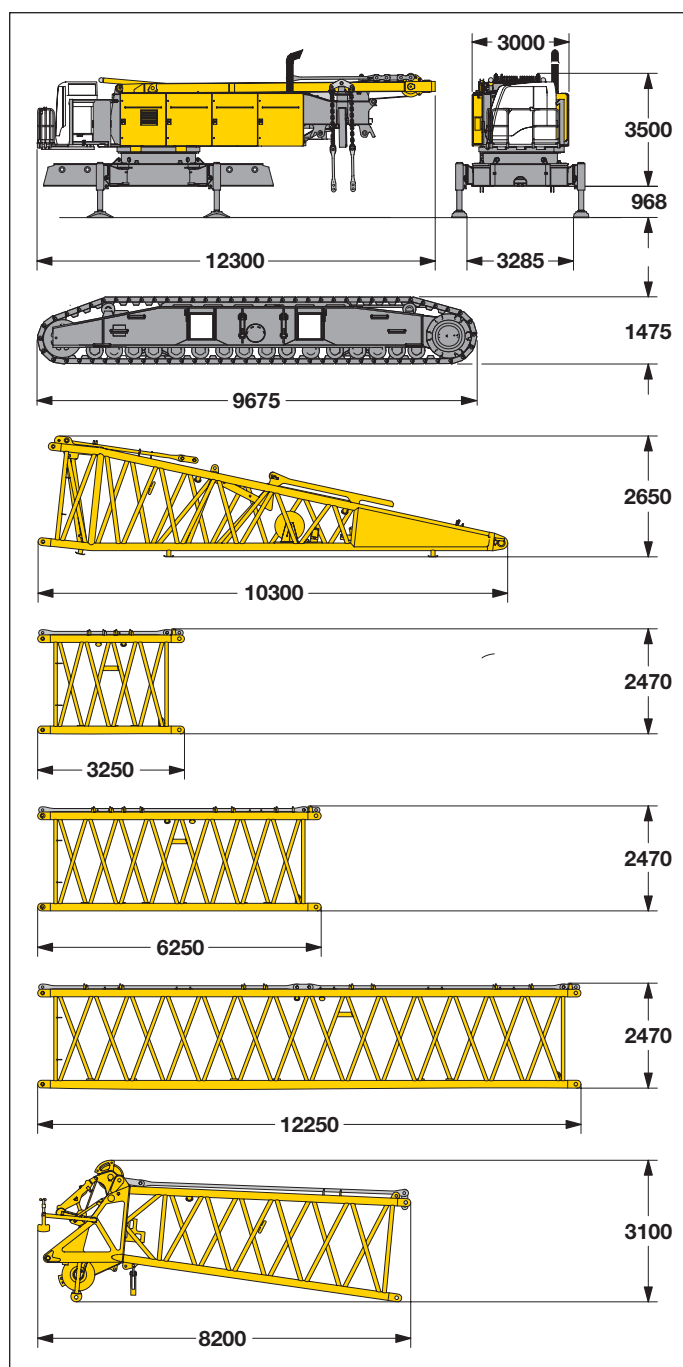
Main boom (No. 2821.xx) max. length _____ 98 m
 Fixed jib (No. 0907.xx) _____ 7 m
 Fixed jib (No. 1507.xx) _____ 8 m
 Derrick (No. 2220.xx) max. length _____ 30 m
 Auxiliary jib _____ 36 t

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)

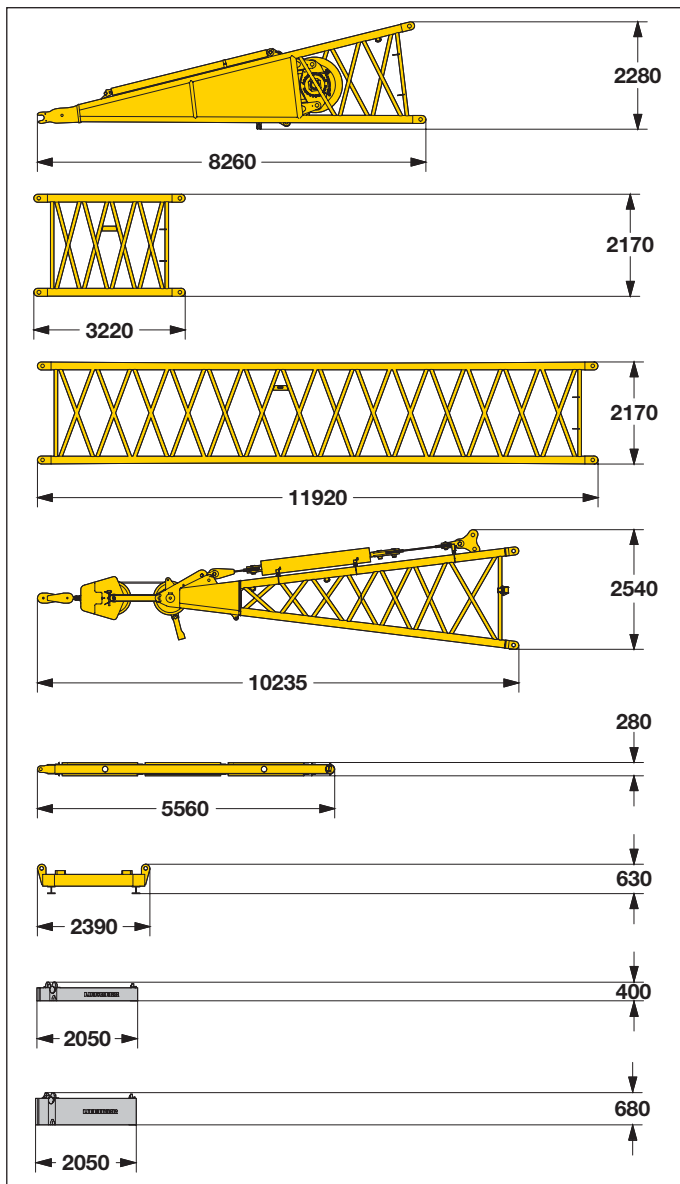
Width	2970 mm
Weight*	5400 kg

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

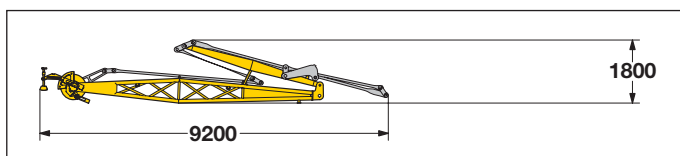
Counterweight (5 t)

Width	2120 mm
Weight*	5000 kg

Counterweight (10 t)

Width	2120 mm
Weight*	10000 kg

Fixed jib (No. 0906.21)

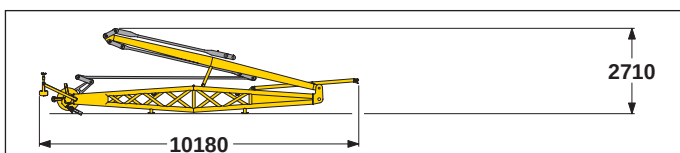


→ including pendants

Fixed jib (No. 0906.21)

Width	1500 mm
Weight*	2400 kg

Fixed jib (No. 1507.20)



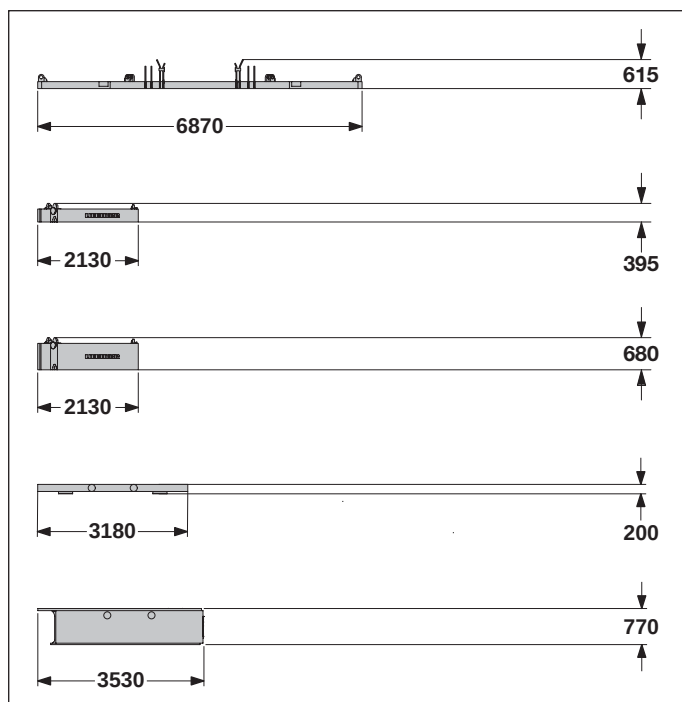
→ including carbon fibre pendants

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

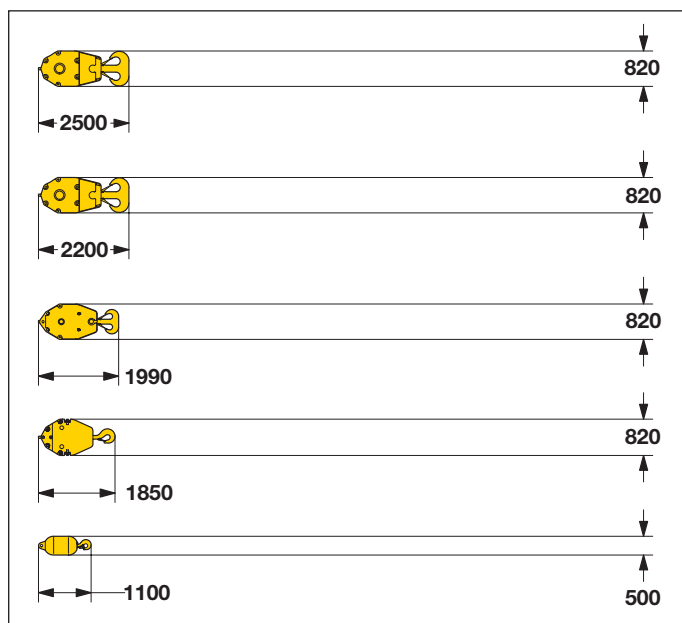
Carbody counterweight 2x

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.



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.



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

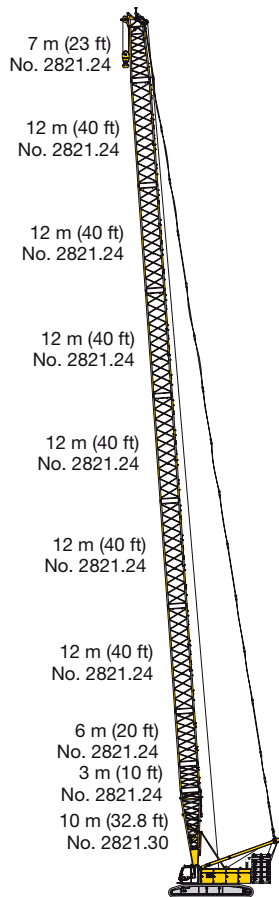
Consists of rollerbearing with external teeth, swing drive with fixed axial piston hydraulic motor, spring loaded and hydraulically released multi-disc holding brake, planetary gearbox and pinion.

Both swing modes are possible – speed control or free swing.

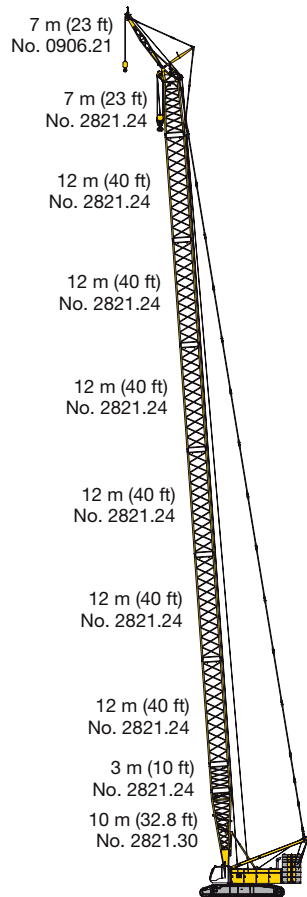
A multi-disc holding brake acts automatically at zero swing motion.

Swing speed from 0 – 1.8 rpm continuously variable.

Boom combinations



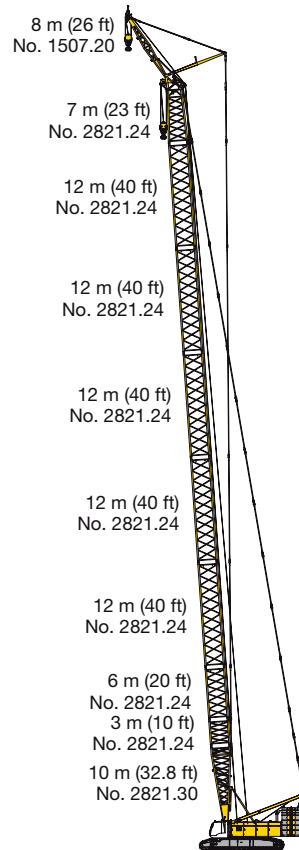
Main boom No.2821.xx — 98 m



Max. combination — 99 m

Main boom No. 2821.xx — 92 m

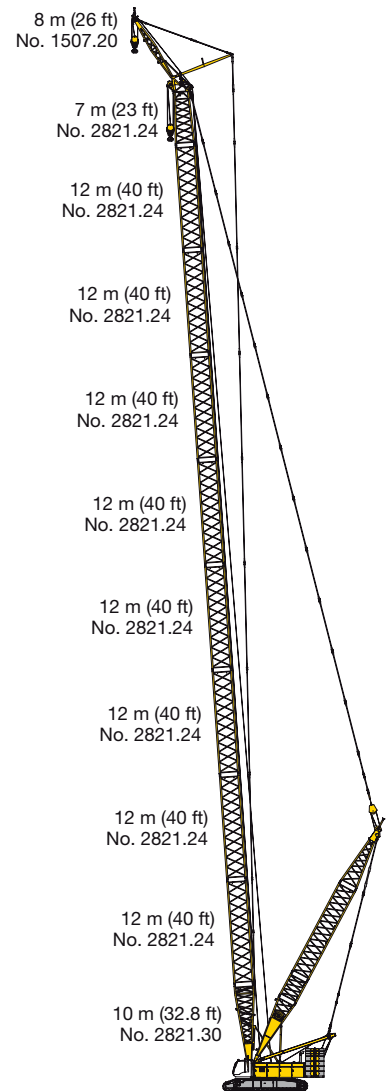
Fixed jib No. 0906.21 — 7 m



Max. combination — 94 m

Main boom No. 2821.xx — 86 m

Fixed jib No. 1507.20 — 8 m

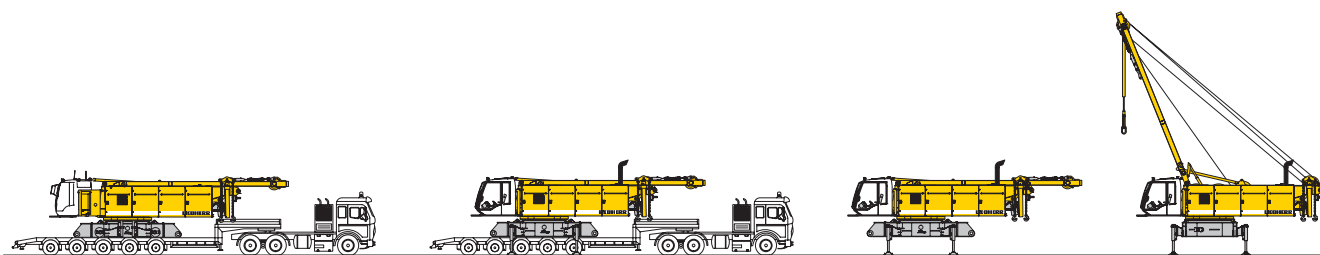


Max. combination — 121 m

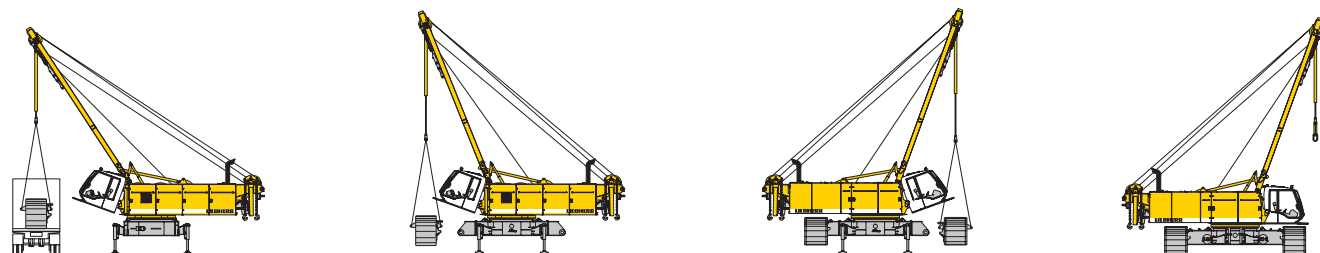
Main boom No. 2821.xx — 113 m

Fixed jib No. 1507.20 — 8 m

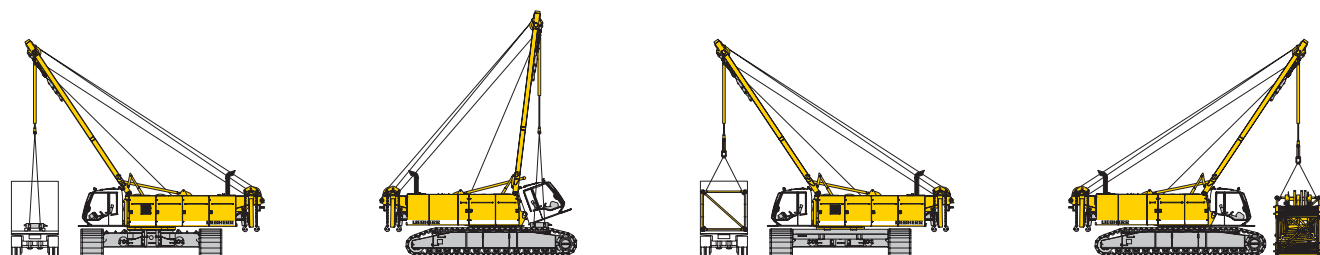
Self assembly system



Unloading of basic machine

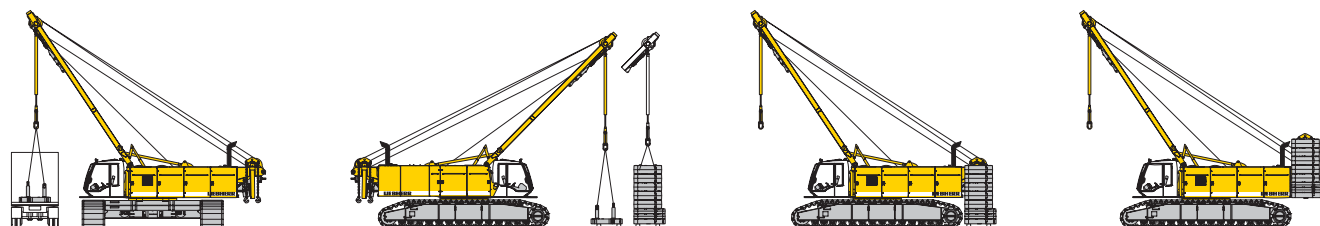


Unloading and assembly of crawlers

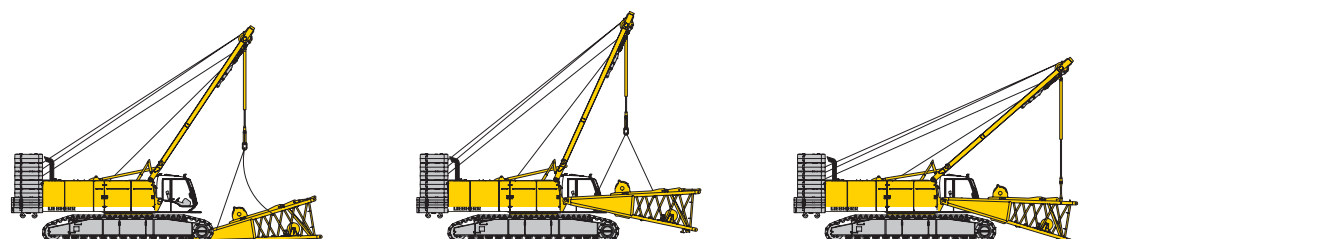


Unloading and assembly of carbody counterweight

Unloading and assembly of boom

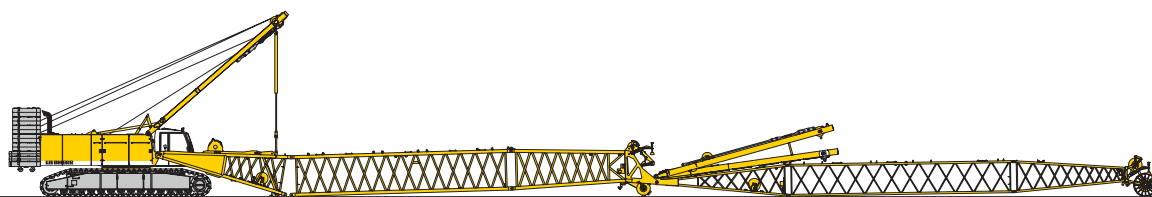


Unloading and assembly of counterweight

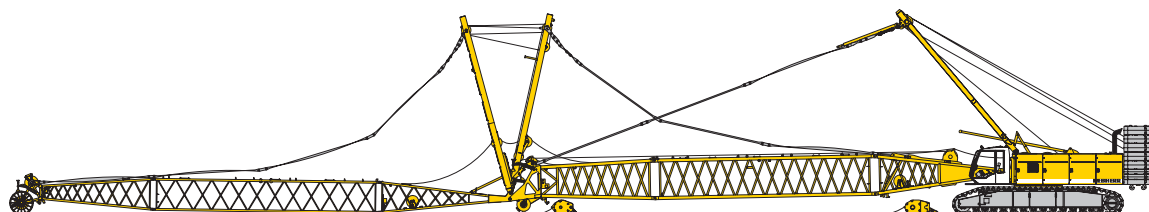


Unloading and assembly of boom foot

Erecting of main boom to working position



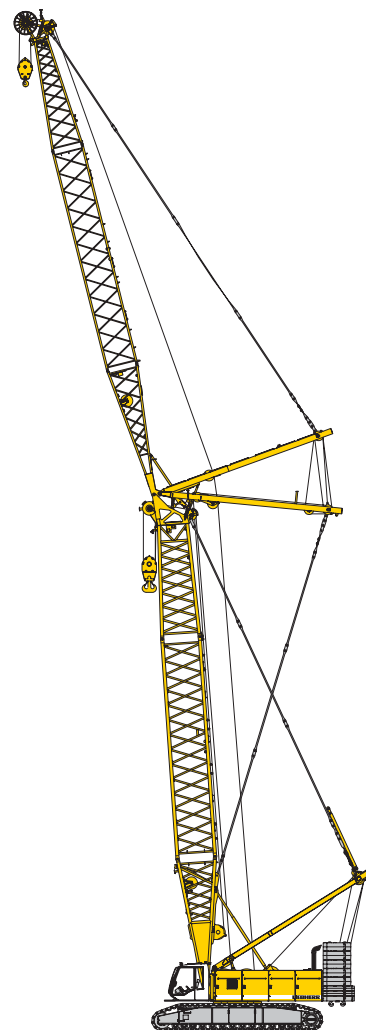
Assembly of boom



Reeving of hoist and luffing jib ropes



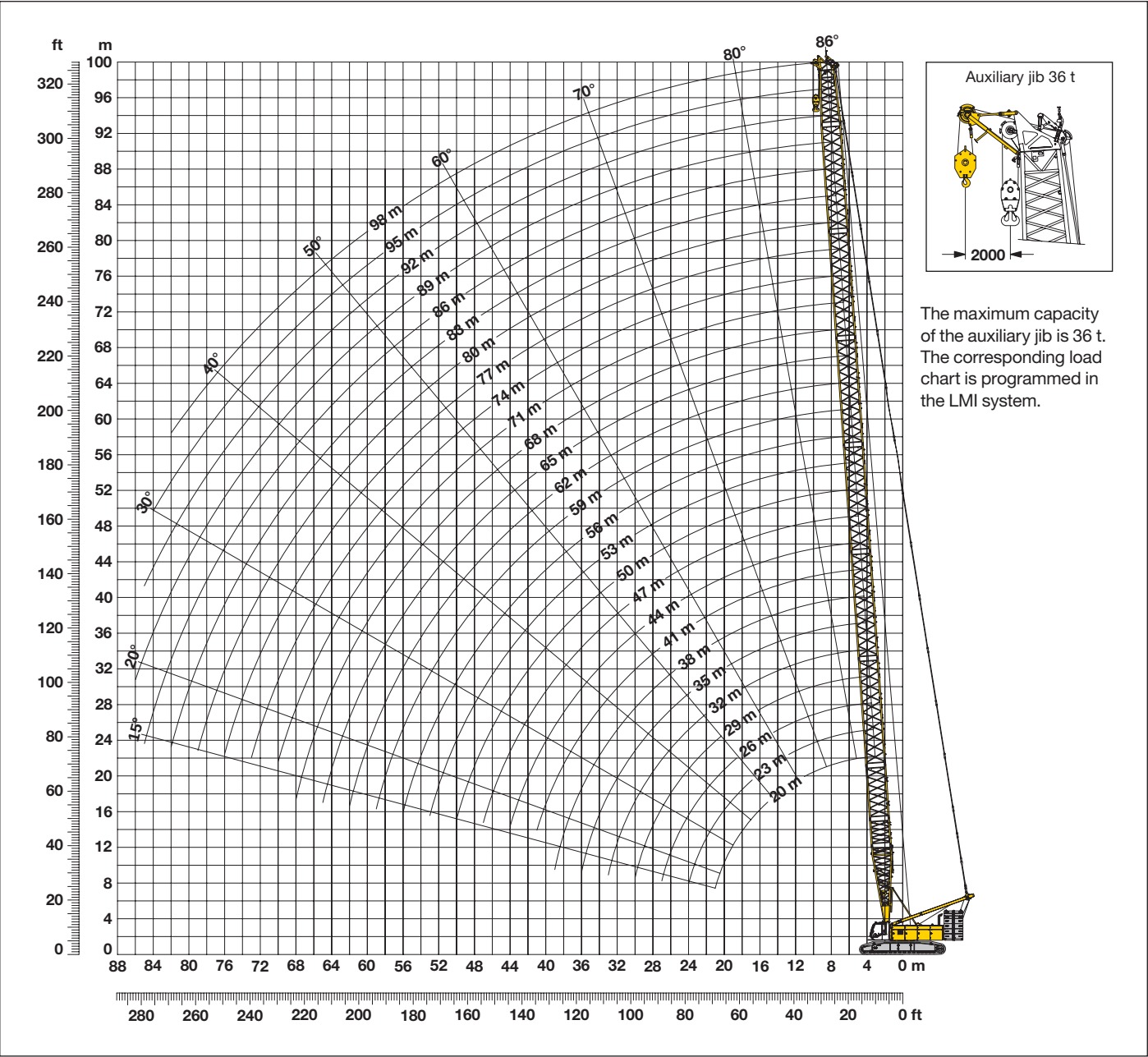
Erecting of main boom and luffing jib



Working position

Main boom (No. 2821.xx) 86° - 15°

124 t counterweight and 52.6 t carbody counterweight



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

Configuration for boom lengths between 20 m and 98 m																												
	Length	Amount of boom extensions																										
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	
Boom insert	3 m	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
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	
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	t	t	t	t	t	t	t	t	t	t	t	t	t	t	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)

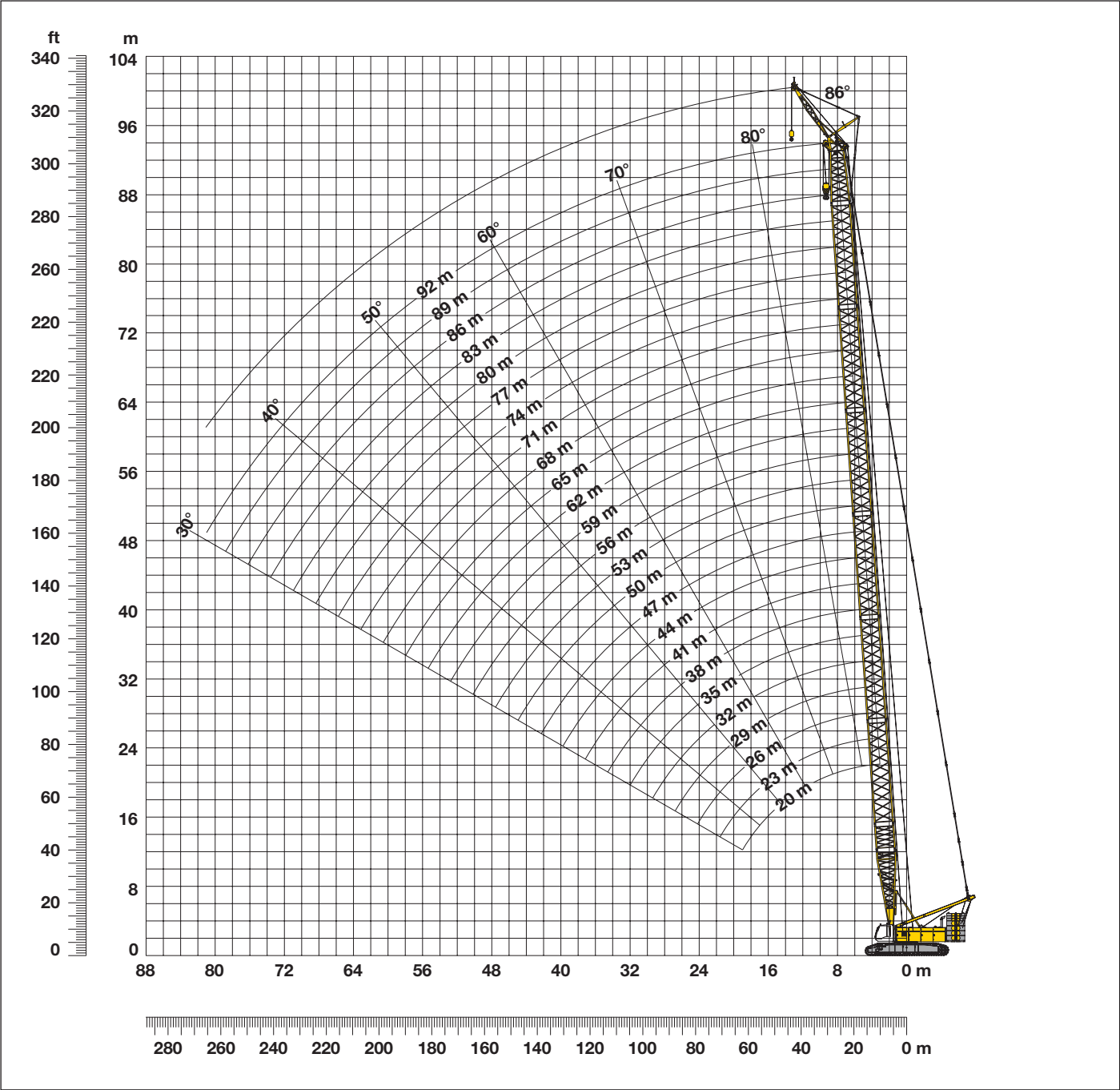
124 t counterweight and 52.6 t carbody counterweight

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																										
	Length	Amount of boom extensions																								
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 insert	3 m	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			
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
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)		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

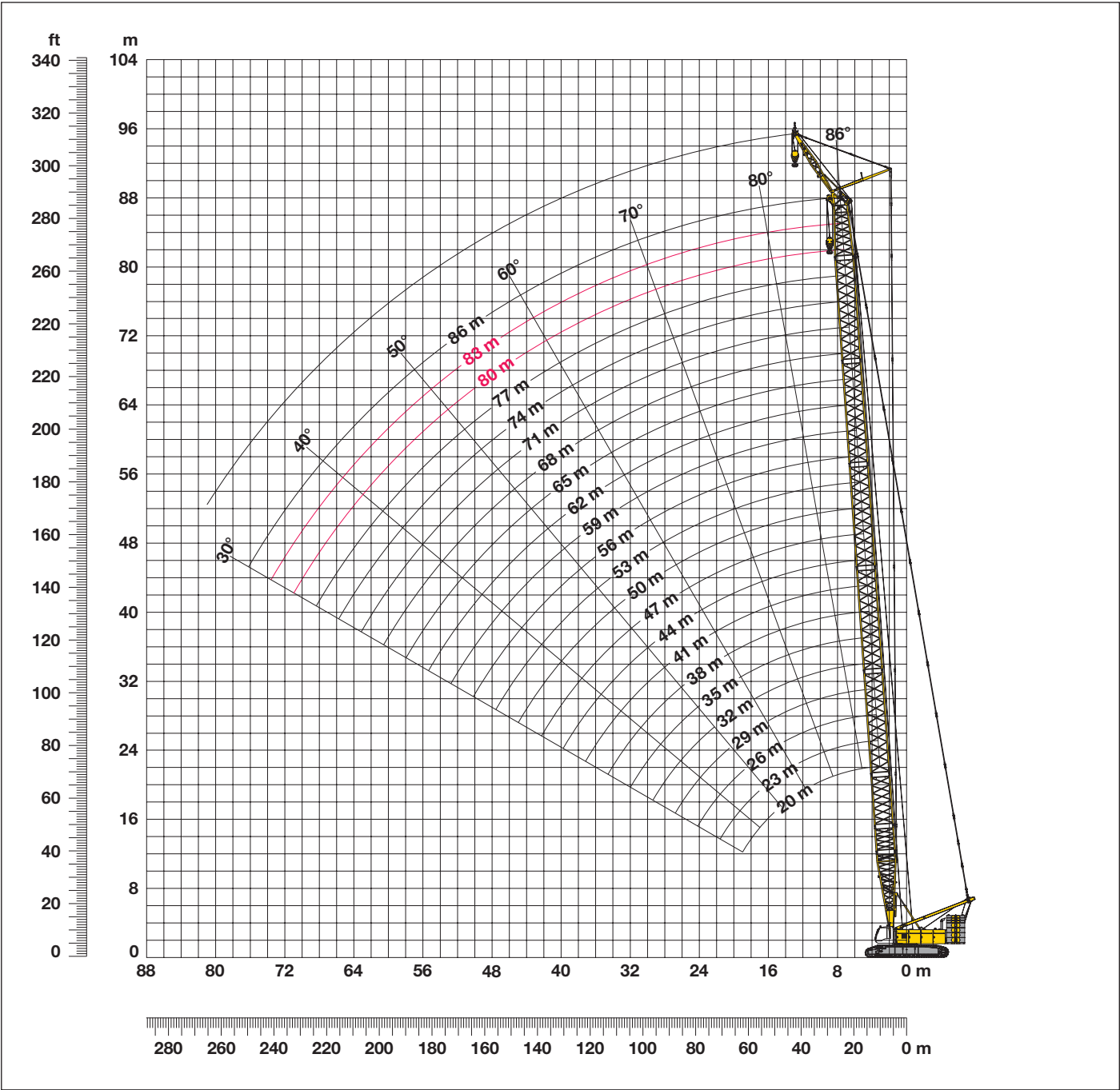
Main boom 92 m

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																						
Boom foot	10 m	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		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	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

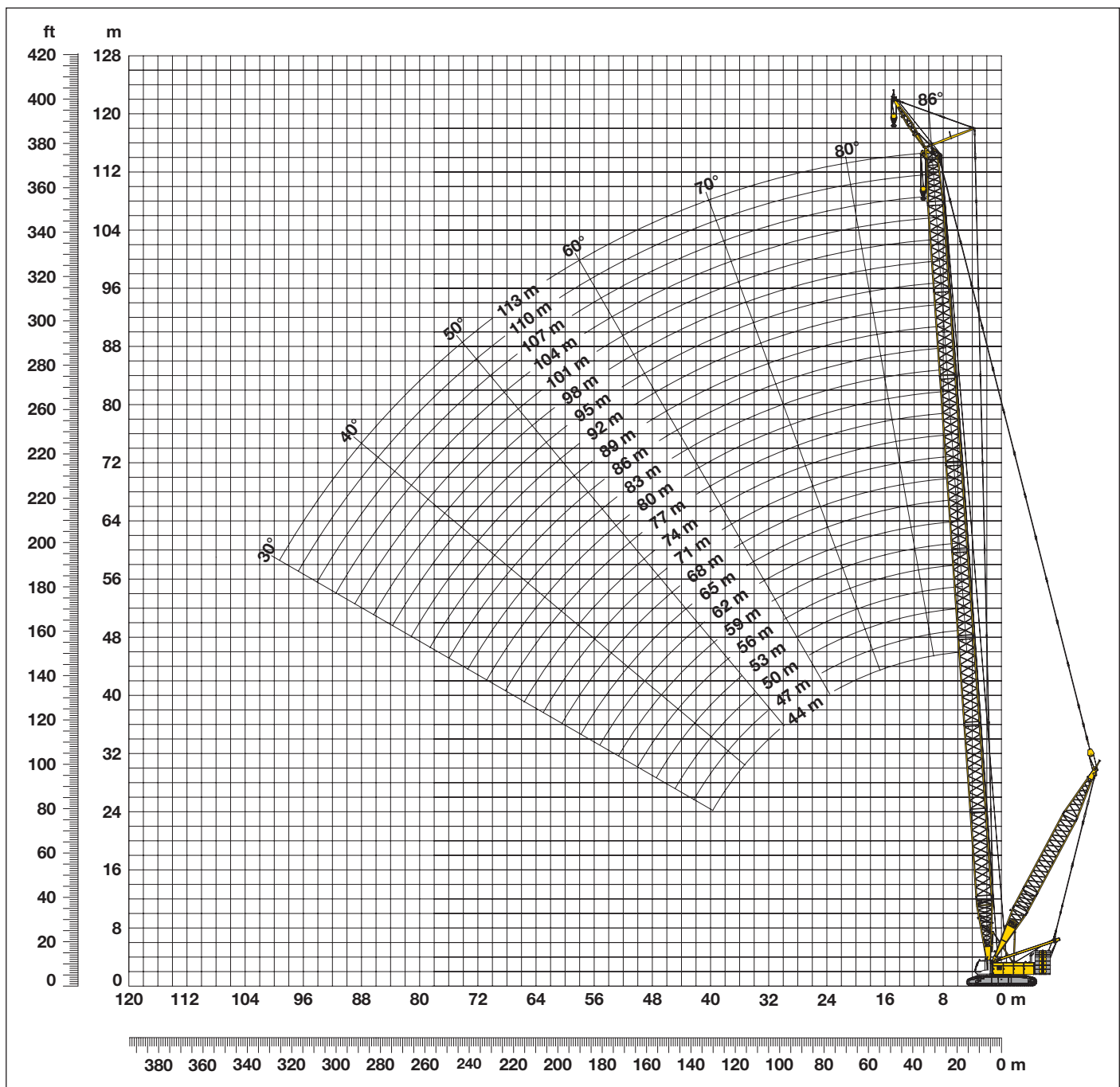
Main boom 86 m

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.

Notice

A full-page sheet of white graph paper featuring a uniform grid of thin black horizontal and vertical lines. The grid covers the entire area of the page, creating a series of small squares suitable for technical drawing or mathematics.

