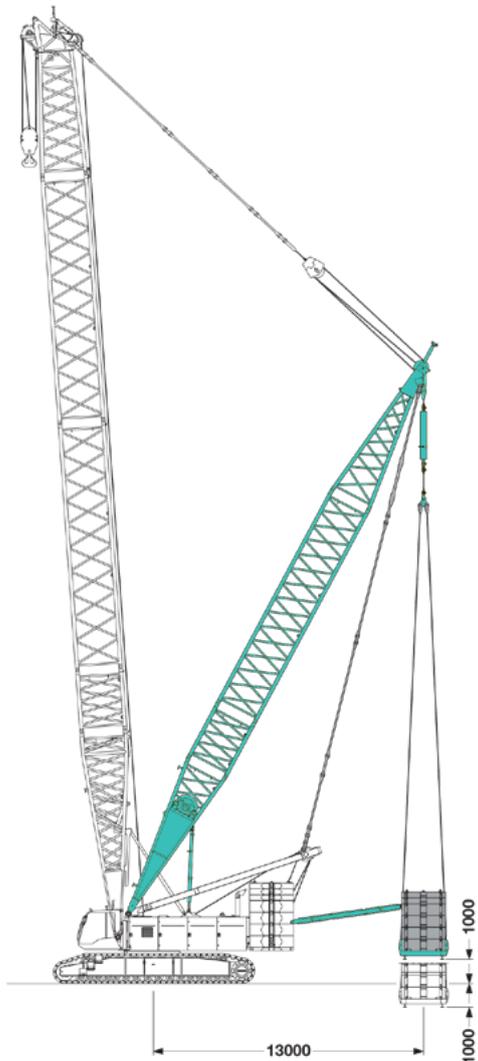


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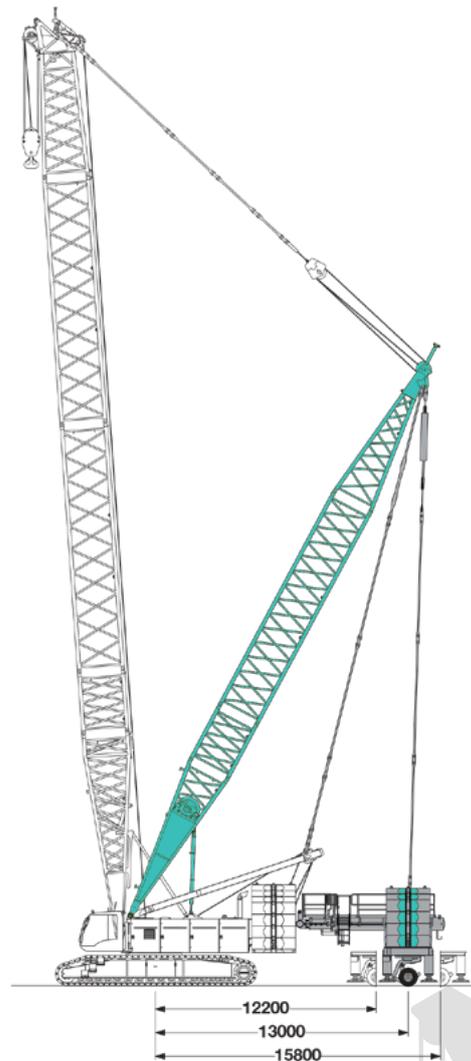
LR1300 DERRICK 300 TONNE

Dimensions

Derrick equipment
with suspended counterweight

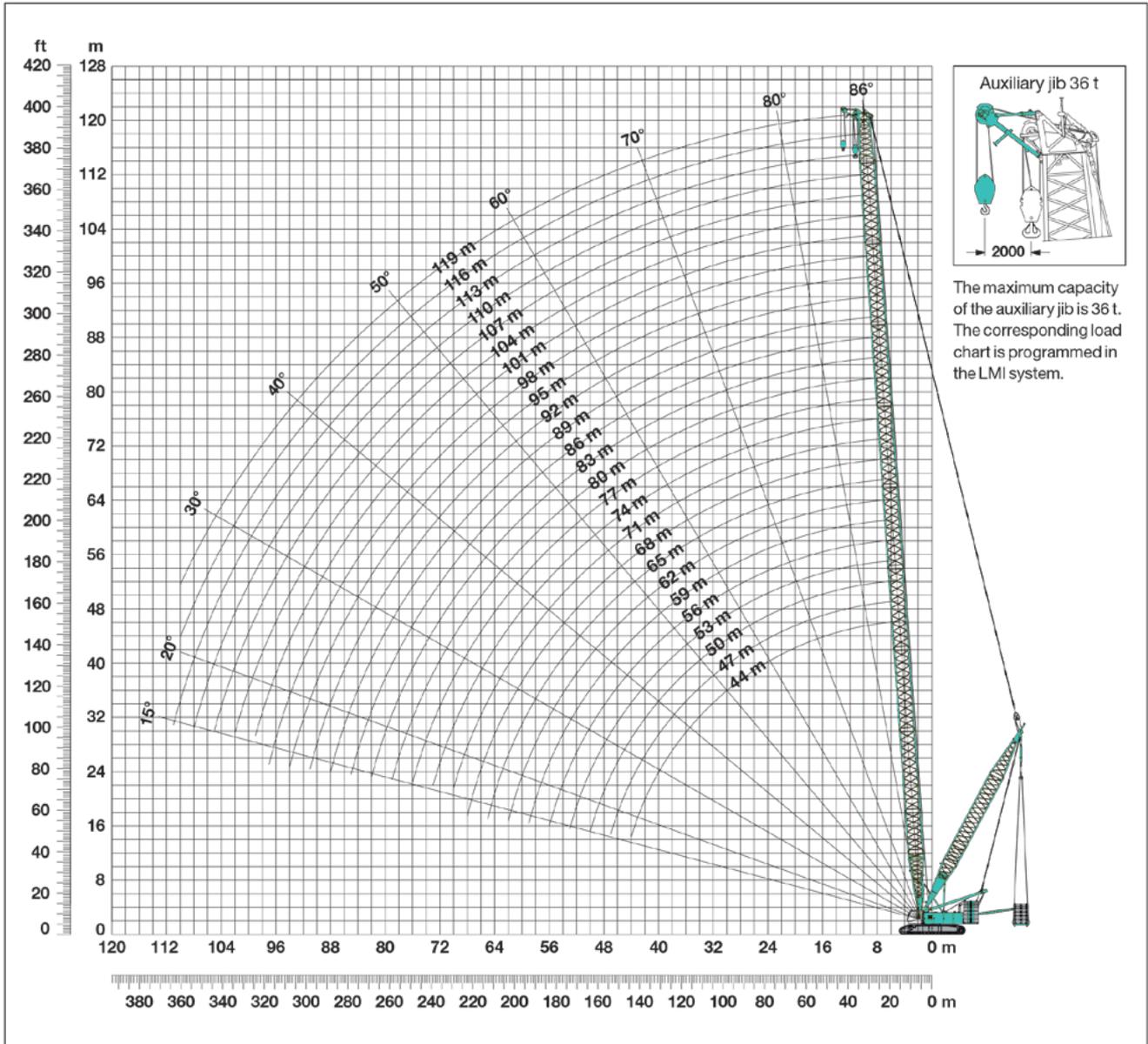


Derrick equipment
with wheeled counterweight carriage



Working Range - Main Boom 86° - 15° (No.2821.xx)

124 t counterweight and 57 t carbody counterweight and max.
120 t suspended counterweight at 13 m radius



Main Boom Configuration (Table 1 - No. 2821.xx)

Configuration for boom lengths between 44m and 119m																											
	Length																										
Boom foot	10m	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	3m	1		1		1		1		1		1		1		1		1		1		1		1			
Boom section	6m		1	1			1	1			1	1			1	1					1	1			1		
Boom section	12m	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
Boom head	7m	6	7	7	7	7	8	8	8	8	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	116	119

Lift Chart - Main Boom (No.2821.xx)

124 t counterweight and 57 t carbody counterweight and max.
120 t suspended counterweight at 13 m radius

Main Boom 44m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
12	98.2	157.6	187.0	204.8	236.6
14	80.6	130.5	155.2	170.1	199.8
16	68.1	110.8	132.1	144.9	170.7
18	63.1	100.8	119.4	130.8	153.2
20	55.3	88.6	105.2	115.4	135.3
22	48.6	78.8	93.9	102.9	121.0
24	43.5	70.9	84.6	92.7	109.2
26	38.9	64.1	76.7	84.3	99.4
28	35.1	58.5	70.1	77.0	90.9
30	31.7	53.5	64.3	70.9	83.8
32	29.1	49.2	59.5	65.4	77.5
34	26.5	45.4	55.0	60.6	72.1
36	24.2	42.2	51.1	56.5	67.2
38	22.2	39.2	47.6	52.7	62.8
40	20.3	36.5	44.6	49.3	59.0
42	18.7	34.0	41.7	46.2	55.4
44	17.2	31.8	39.1	43.4	50.8

Main Boom 50m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
11	109.3				
12	97.8	157.1	182.5	182.5	
14	80.1	129.9	154.7	169.5	175.6
16	67.5	110.2	131.4	144.4	168.7
18	58.1	95.4	114.2	125.4	147.8
20	50.4	83.9	100.6	110.5	130.6
22	48.1	78.2	93.3	102.5	120.4
24	43.0	70.3	84.0	92.1	108.6
26	38.4	63.5	76.0	83.7	98.8
28	34.5	57.9	69.5	76.4	90.3
30	31.1	52.9	63.7	70.3	83.2
32	28.5	48.6	58.9	64.8	76.9
34	25.9	45.0	54.4	60.0	71.5
36	23.6	41.7	50.5	55.9	66.6
38	21.6	38.6	47.0	52.1	62.2
40	19.8	36.0	44.1	48.7	58.4
42	18.2	33.5	41.2	45.7	54.9
44	16.7	31.3	38.6	43.0	51.7
46	15.3	29.4	36.3	40.5	48.7
48	14.5	27.5	34.2	38.2	46.0
50	13.4	25.8	32.2	36.0	43.7
55	10.7	22.0	27.8	31.3	38.2

Main Boom 56m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
11	109.3	174.9	187.1	187.1	
12	97.8	157.1	182.5	182.5	
14	80.1	129.9	154.7	169.5	175.6
16	67.5	110.2	131.4	144.4	168.7
18	58.1	95.4	114.2	125.4	147.8
20	50.4	83.9	100.6	110.5	130.6
22	48.1	78.2	93.3	102.5	120.4
24	43.0	70.3	84.0	92.1	108.6
26	38.4	63.5	76.0	83.7	98.8
28	34.5	57.9	69.5	76.4	90.3
30	31.1	52.9	63.7	70.3	83.2
32	28.5	48.6	58.9	64.8	76.9
34	25.9	45.0	54.4	60.0	71.5
36	23.6	41.7	50.5	55.9	66.6
38	21.6	38.6	47.0	52.1	62.2
40	19.8	36.0	44.1	48.7	58.4
42	18.2	33.5	41.2	45.7	54.9
44	16.7	31.3	38.6	43.0	51.7
46	15.3	29.4	36.3	40.5	48.7
48	14.5	27.5	34.2	38.2	46.0
50	13.4	25.8	32.2	36.0	43.7
55	10.7	22.0	27.8	31.3	38.2

Main Boom 68m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
9	141.7				
10	123.2	144.5	144.5		
12	97.1	139.4	139.4	139.4	
16	66.7	109.4	130.8	131.4	131.4
18	57.2	94.5	113.3	124.5	126.2
20	49.5	83.0	99.7	109.6	121.8
22	43.7	73.8	88.6	97.7	115.6
24	38.5	65.9	79.6	88.0	104.2
26	34.3	59.7	72.2	79.6	94.7
28	33.6	57.1	68.6	75.5	89.4
30	30.3	52.1	62.8	69.4	82.3
32	27.7	47.7	58.0	63.9	76.0
34	25.1	44.2	53.6	59.3	70.6
36	22.8	40.8	49.6	55.1	65.7
38	20.8	37.8	46.2	51.3	61.3
40	19.0	35.1	43.2	47.9	57.6
44	15.9	30.5	37.8	42.2	50.8
48	13.8	26.8	33.4	37.4	45.2
50	12.6	25.1	31.4	35.2	42.9
55	10.1	21.4	27.2	30.6	37.6
60	7.9	18.3	23.6	26.8	33.1
65	6.1	15.7	20.5	23.5	29.3

Lift Chart - Main Boom (No.2821.xx)

124 t counterweight and 57 t carbody counterweight and max.
120 t suspended counterweight at 13 m radius

Main Boom 74m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
9	129.9				
10	122.8	129.9			
12	96.7	126.9	122.1		
14	78.9	122.1	118.0	118.0	
18	56.7	108.9	111.6	111.6	111.6
20	48.9	94.0	99.1	107.3	107.3
22	43.1	82.4	88.2	97.2	103.6
24	38.0	73.2	79.1	87.4	100.6
26	33.7	65.4	71.7	79.1	94.2
28	30.1	59.1	65.2	72.2	86.1
30	30.1	53.6	62.3	68.9	81.8
32	27.1	51.6	57.5	63.4	75.5
34	24.6	47.2	53.0	58.8	70.1
36	22.3	43.7	49.1	54.5	65.2
38	20.3	40.3	45.6	50.7	60.8
40	18.4	37.3	42.7	47.4	57.1
44	15.3	32.2	37.3	41.7	50.3
48	13.3	28.1	32.8	36.9	44.9
55	9.6	24.6	26.7	30.1	37.1
60	7.4	20.9	23.1	26.3	32.6
65	5.7	17.8	20.1	23.0	28.9
70	4.1	15.2	17.5	20.2	25.6

Main Boom 86m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
8.9	92.2				
12	90.2	90.2			
16	65.2	86.0	86.0		
18	55.7	84.2	84.2	84.2	
24	36.9	64.3	76.4	76.4	76.4
26	32.6	58.1	70.6	74.1	74.1
28	29.4	52.5	64.1	70.9	72.2
30	26.2	47.7	58.7	65.0	71.5
32	23.5	43.9	53.8	59.8	71.3
34	23.5	42.6	52.0	57.7	69.0
36	21.2	39.2	48.1	53.5	64.1
38	19.2	36.2	44.8	49.7	59.8
40	17.4	33.5	41.7	46.3	56.0
44	14.9	29.1	36.3	40.7	49.3
48	12.2	25.2	31.8	35.8	43.9
55	8.5	19.9	25.7	29.2	36.1
60	6.4	16.8	22.1	25.3	31.6
65	4.7	14.6	19.1	22.1	28.0
70	3.2	12.3	16.6	19.3	24.7
75		10.4	14.6	16.9	21.9
80		8.6	12.6	15.0	19.5
85		7.1	10.8	13.0	17.3

Main Boom 92m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
9.3	79.2				
12	77.8	77.8			
18	55.2	72.8	72.8		
20	47.4	71.6	71.6	71.6	
28	28.8	52.0	62.5	62.5	62.5
30	25.7	47.2	58.2	60.9	60.9
32	22.9	43.3	53.3	59.2	60.3
34	20.5	39.7	49.0	54.8	59.9
36	20.7	38.7	47.5	53.0	59.6
38	18.7	35.7	44.3	49.2	59.1
40	16.9	33.0	41.1	45.8	55.5
44	14.3	28.6	35.7	40.1	48.7
48	11.7	24.7	31.3	35.3	43.3
50	10.5	23.0	29.5	33.2	40.9
55	8.0	19.4	25.2	28.7	35.5
60	5.9	16.3	21.6	24.8	31.1
65	4.2	14.1	18.6	21.6	27.5
70	2.7	11.9	16.1	18.8	24.2
75		9.9	14.2	16.4	21.4
80		8.2	12.2	14.6	19.0
85		6.7	10.4	12.6	16.8
90		5.3	8.8	10.9	14.9

Main Boom 98m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
9.7	68.5				
14	66.2	66.2			
20	46.8	62.0	62.0		
22	41.0	60.1	60.1	60.1	
30	25.0	46.6	57.6	58.0	58.0
32	22.3	42.7	52.7	57.9	57.9
34	19.9	39.0	48.4	54.2	57.9
36	17.8	35.8	44.9	50.1	57.9
38	18.1	35.1	43.7	48.6	57.9
40	16.3	32.4	40.5	45.2	54.9
44	13.7	28.0	35.1	39.5	48.1
48	11.1	24.1	30.7	34.7	42.7
50	9.9	22.4	28.9	32.6	40.3
55	7.4	18.8	24.6	28.1	34.9
60	5.3	15.7	21.0	24.2	30.5
65	3.6	13.5	18.1	21.0	26.9
70	2.1	11.3	15.5	18.2	23.7
75		9.3	13.6	15.8	20.9
80		7.6	11.6	14.0	18.4
85		6.1	9.9	12.1	16.3
90		4.8	8.3	10.4	14.6
95		3.5	6.8	8.8	12.8

Lift Chart - Main Boom (No.2821.xx)

124 t counterweight and 57 t carbody counterweight and max.
120 t suspended counterweight at 13 m radius

Main Boom 104m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
12	59.0				
14	57.7	129.9			
22	40.4	52.5	52.5		
26	30.9	50.3	50.3	50.3	
32	21.7	42.1	50.1	50.1	50.1
34	19.3	38.5	47.9	50.1	50.1
36	17.2	35.3	44.3	49.5	50.1
38	15.3	32.4	41.0	45.9	50.1
40	15.7	31.9	40.0	44.8	50.1
44	13.2	27.4	34.6	39.0	47.6
48	10.5	23.6	30.1	34.1	42.2
50	9.3	21.9	28.3	32.0	39.7
55	6.8	18.2	24.0	27.6	34.4
60	4.8	15.2	20.5	23.7	30.0
65	3.0	13.0	17.5	20.5	26.3
70		10.7	15.1	17.7	23.1
75		8.8	13.1	15.3	20.3
80		7.1	11.1	13.5	17.9
85		5.6	9.3	11.6	15.8
90		4.3	7.8	9.9	14.1
95		3.0	6.4	8.4	12.4
100			5.1	7.0	10.8

Main Boom 110m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
10.6	51.4				
16	49.2	49.2			
24	34.6	44.6	44.6		
28	27.0	43.1	43.1	43.1	
36	16.6	34.6	42.7	42.7	42.7
38	15.1	31.8	40.3	42.7	42.7
40	13.6	29.4	37.3	42.0	42.7
44	12.5	26.8	34.0	38.4	42.7
46	11.1	24.8	31.6	35.8	42.7
48	9.9	22.9	29.7	33.5	41.5
50	8.7	21.2	27.7	31.4	39.1
55	6.2	17.6	23.4	26.9	33.8
60	4.1	15.0	19.9	23.1	29.5
65	2.4	12.4	16.9	19.8	25.7
70		10.1	14.7	17.1	22.5
75		8.2	12.5	15.0	19.7
80		6.5	10.5	12.9	17.3
85		5.0	8.7	11.0	15.2
90		3.7	7.2	9.3	13.5
95		2.5	5.8	7.8	11.8
100			4.5	6.4	10.2
105			3.4	5.2	8.8

Main Boom 113m

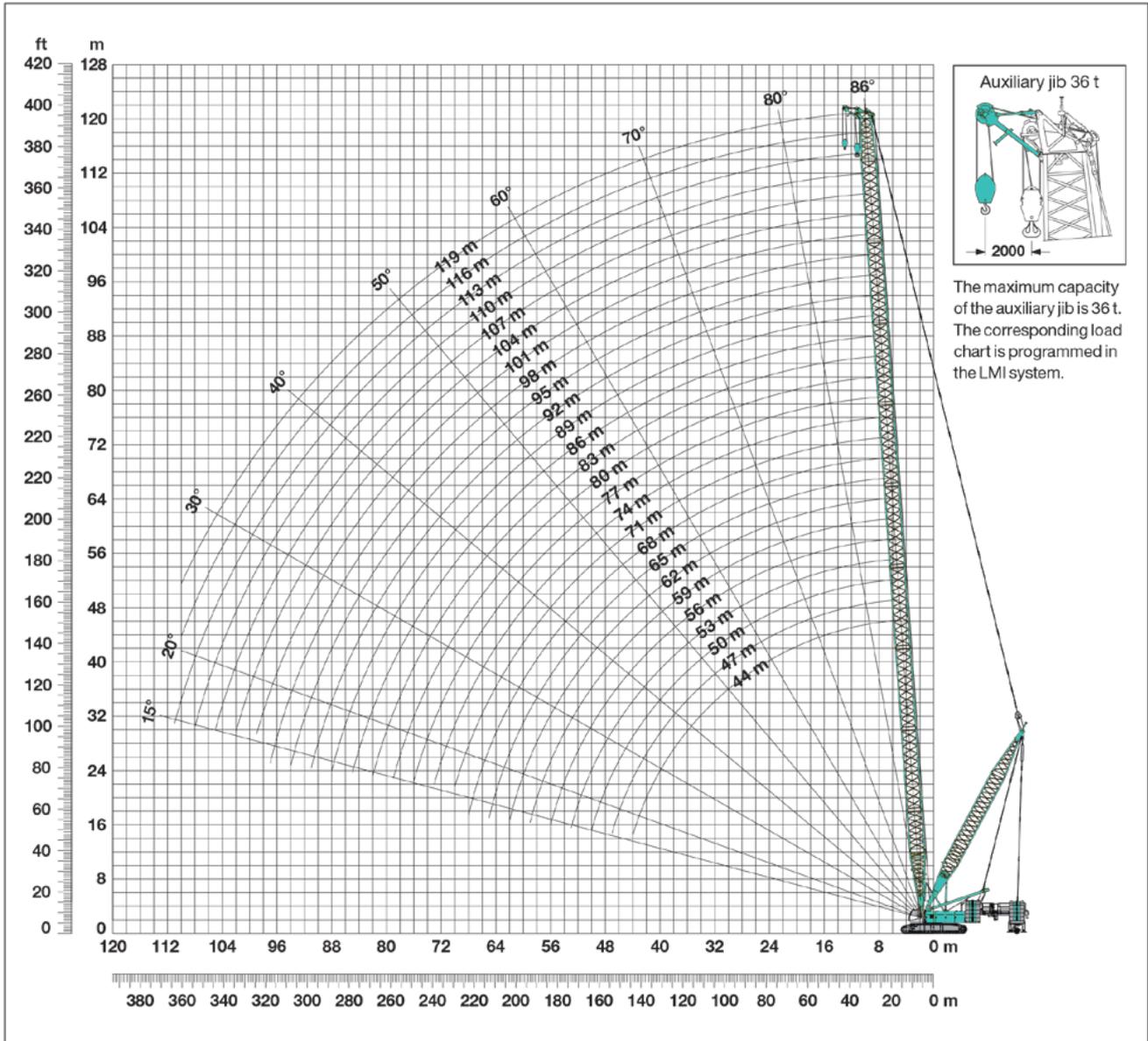
Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
10.8	47.9				
16	45.9	45.9			
24	34.4	41.3	41.3		
30	23.6	39.4	39.4	39.4	
38	15.1	31.5	38.9	38.9	38.9
40	13.4	29.2	37.1	38.9	38.9
44	12.3	26.6	33.7	38.0	38.9
46	10.9	24.6	31.4	35.6	38.9
48	9.6	22.7	29.5	33.3	38.9
50	8.5	21.0	27.5	31.2	38.7
55	6.0	17.4	23.2	26.7	33.6
60	3.9	14.8	19.7	22.9	29.3
65	2.2	12.1	16.7	19.6	25.5
70		9.9	14.5	16.9	22.3
75		8.0	12.2	14.8	19.5
80		6.3	10.3	12.7	17.1
85		4.8	8.5	10.8	15.0
90		3.5	7.0	9.1	13.3
95		2.3	5.6	7.6	11.6
100			4.3	6.2	10.0
105			3.2	5.0	8.6
110			2.1	3.8	7.3

Main Boom 119m

Radius (m)	Suspended counterweight in metric tons at 13 m radius				
	0 t	50 t	75 t	90 t	120 t
11.2	41.5				
18	38.6	38.6			
28	26.2	33.4	33.4		
32	20.2	32.6	32.6	32.6	
42	11.2	26.2	31.9	31.9	31.9
44	11.7	25.9	31.9	31.9	31.9
46	10.3	23.9	30.8	31.9	31.9
48	9.0	22.1	28.8	31.9	31.9
50	7.8	20.4	26.9	30.6	31.9
55	5.3	16.7	22.6	26.1	31.9
60	3.3	14.1	19.0	22.2	28.6
65		11.5	16.1	19.0	24.9
70		9.3	13.9	16.2	21.7
75		7.3	11.6	14.2	18.9
80		5.7	9.7	12.1	16.5
85		4.2	7.9	10.2	14.4
90		2.9	6.4	8.5	12.5
95			5.0	7.0	10.8
100			3.8	5.7	9.3
105			2.6	4.4	7.9
110				3.3	6.6
115				2.2	5.6

Working Range - Main Boom 86° - 15° (No.2821.xx)

124 t counterweight and 57 t carbody counterweight and 120 t wheeled counterweight carriage at 15.8 m radius



Main Boom Configuration (Table 1 - No. 2821.xx)

Configuration for boom lengths between 44m and 119m																											
	Length																										
Boom foot	10m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Boom section	3m	1		1		1		1		1		1		1		1		1		1		1					
Boom section	6m		1	1		1	1		1	1		1	1		1	1		1	1		1	1					
Boom section	12m	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8
Boom head	7m	6	7	7	7	7	8	8	8	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	116	119

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Lift Chart - Main Boom (No.2821.xx)

124 t counterweight and 57 t carbody counterweight and
120 t wheeled counterweight carriage at 15.8 m radius

Capacities in metric tons for boom lengths (44 m - 119 m) - with 215 kN winches 124 t counterweight and 57 t carbody counterweight and 120 t wheeled counterweight carriage														
Radius	Boom length in (m)												Radius	
	44	50	56	68	74	86	92	98	104	110	113	119		
(m)	t	t	t	t	t	t	t	t	t	t	t	t	(m)	
8.9						92.2							8.9	
9				147.9	129.9	92.2							9	
10				144.5	126.9	92.2	79.2	68.5					10	
12	236.6	211.2	182.5	139.4	122.1	90.2	77.8	67.7	59.0	51.4	47.9	41.5	12	
14	219.4	201.0	175.6	134.7	118.0	88.4	76.5	66.2	57.7	50.4	47.1	41.0	14	
16	188.8	188.3	168.7	131.4	114.9	86.0	74.5	64.9	56.6	49.2	45.9	39.7	16	
18	169.1	164.1	163.2	126.2	111.6	84.2	72.8	63.3	55.1	48.0	44.8	38.6	18	
20	149.6	149.3	144.7	121.8	107.3	82.3	71.6	62.0	53.9	46.7	43.4	36.9	20	
22	133.8	133.5	133.2	118.2	103.6	79.1	69.2	60.1	52.5	45.7	42.4	35.7	22	
24	120.9	120.6	120.3	114.9	100.6	76.4	66.6	58.7	51.2	44.6	41.3	34.8	24	
26	110.1	109.8	109.5	105.4	98.1	74.1	64.4	58.2	50.3	43.7	40.4	34.0	26	
28	101.0	100.5	100.3	99.5	95.6	72.2	62.5	58.0	50.1	43.1	39.7	33.4	28	
30	93.0	92.7	92.4	91.5	91.0	71.5	60.9	58.0	50.1	42.9	39.4	32.9	30	
32	86.2	85.9	85.6	84.7	84.2	71.3	60.3	57.9	50.1	42.8	39.3	32.6	32	
34	80.1	79.8	79.5	78.6	78.1	71.1	59.9	57.9	50.1	42.7	39.1	32.4	34	
36	74.7	74.4	74.2	73.2	72.9	71.0	59.6	57.9	50.1	42.7	39.0	32.1	36	
38	70.0	69.7	69.5	68.6	68.1	67.0	59.3	57.9	50.1	42.7	38.9	31.9	38	
40	65.7	65.4	65.2	64.3	63.8	62.7	59.0	57.9	50.1	42.7	38.9	31.9	40	
42	61.8	61.5	61.3	60.4	59.9	59.0	58.2	57.7	50.1	42.7	38.9	31.9	42	
44	58.1	58.1	57.9	57.1	56.5	55.5	55.0	54.4	50.1	42.7	38.9	31.9	44	
46		54.9	54.7	53.9	53.3	52.3	51.8	51.2	49.2	42.7	38.9	31.9	46	
48		51.9	51.7	50.9	50.4	49.4	48.9	48.3	47.7	42.4	38.9	31.9	48	
50		49.2	49.0	48.2	47.7	46.7	46.2	45.6	45.0	42.1	38.9	31.9	50	
55			43.2	42.5	42.0	41.0	40.5	39.9	39.4	38.7	38.4	31.9	55	
60				37.6	37.1	36.2	35.6	35.1	34.5	33.9	33.7	31.9	60	
65				33.5	33.0	32.1	31.6	31.0	30.4	29.8	29.6	29.0	65	
70					29.5	28.6	28.1	27.5	27.0	26.4	26.2	25.5	70	
75						25.5	25.0	24.5	23.9	23.3	23.1	22.3	75	
80							22.8	22.4	21.8	21.3	20.7	20.5	80	
85							20.4	20.0	19.5	18.9	18.3	18.1	85	
90								17.9	17.4	16.9	16.3	16.1	90	
95									15.4	15.0	14.4	14.2	95	
100										13.4	12.7	12.5	100	
105											11.3	11.0	105	
110												9.6	110	
115													2.6	115

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.