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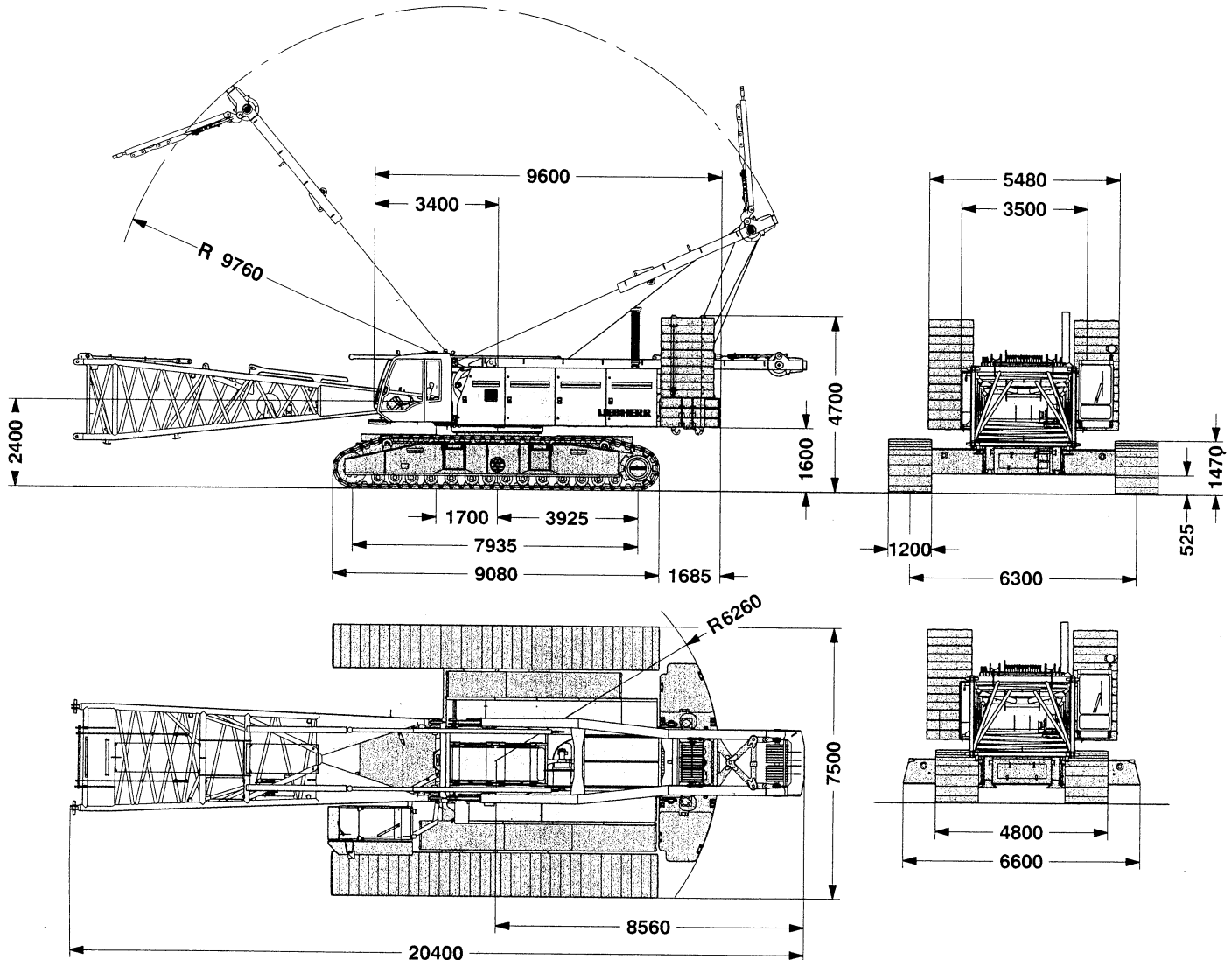
LIEBHERR

LR 1280-2-W 280 Ton Crawler

with adjustable tracks 7.5 - 4.8m

Year 2007 Serial no. 136086 Page 1 of 10

Dimensions Basic machine with undercarriage



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).



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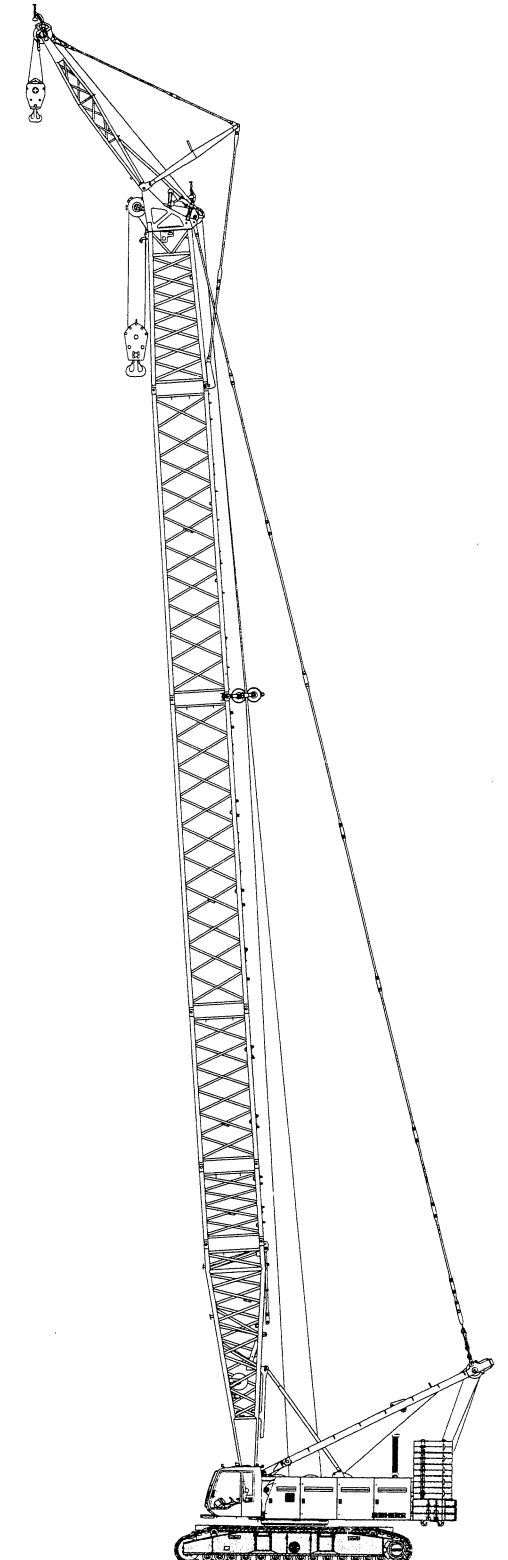
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Technical data, hydraulic lift crane



Operating weight

The operating weight includes the basic machine with crawlers, 2 main winches 150 kN and 29 m main boom, consisting of A-frame, boom foot (10 m), boom head (7 m), boom section tapered (12 m), 85.5 t basic counterweight, 32 t carbody counterweight and 300 t hook block.

Total weight _____ approx. 228 t

Ground pressure

Ground bearing pressure _____ 1.20 kg/cm²

Equipment

High reach (No. 2821.xx and 2220.xx) _____ 86 m

Fixed jib (No. 0906.xx) _____ 7 m

Auxiliary jib 30 t lifting capacity



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

Drive speed _____ 0 - 1.3 km/h



Boom winch

Line pull (3rd layer) _____ 150 kN

Rope diameter _____ 24 mm

Boom up _____ 137 sec. from 15° to 86°



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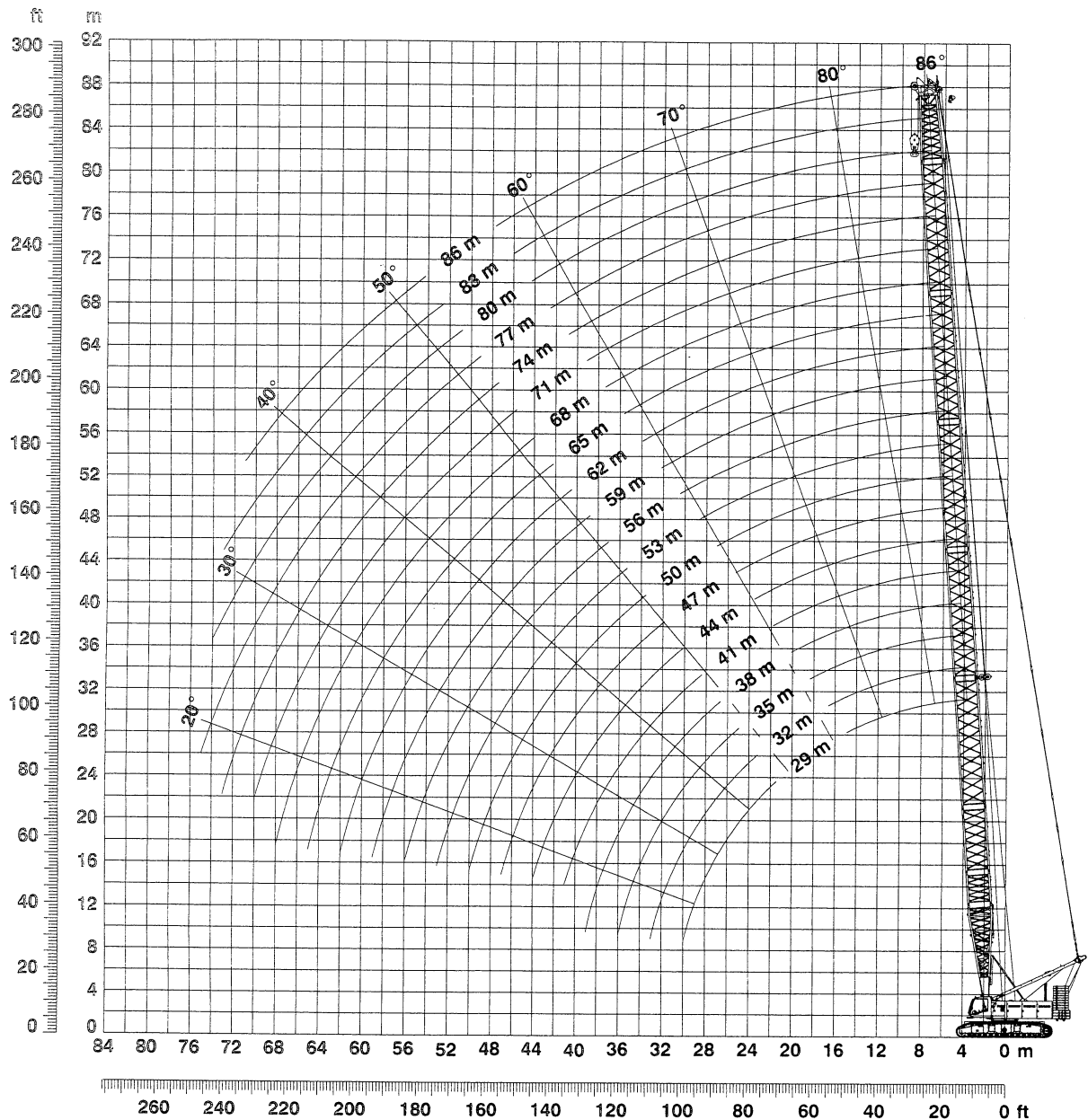
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L – Boom, high reach (No.2821 / 2220.xx) 86m Working Range 86 – 15 degrees



L – boom configuration (No. 2821.xx / No. 2220.xx)

Configuration for L – boom lengths (29m – 86 m)

	Length	Amount of boom and luffing jib extensions																			
Boom foot	10.0 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		
Boom insert	6.0 m			1	1		1	1		1	1		1	1		1	1		1	1	
Boom insert	12.0 m					1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4
Tapered	12.0 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Luffing jib head	7.0 m	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Max. L – boom length (m)		29	32	35	38	41	44	47	50	53	56	59	62	65	68	71	74	77	80	83	86



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Lift chart for L – boom (No.2821 / 2220.xx)

Capacities in metric tons for boom lengths (29 m – 86 m) – with 150 kN winches
 85.5 t counterweight and 32.0 t carbody counterweight

Radius (m)	Boom length (m)											Radius (m)
	29 t	38 t	44 t	50 t	56 t	62 t	68 t	74 t	80 t	83 t	86 t	
4.9	250.7											4.9
5	250.7											5
6	219.0	201.6	182.8									6
7	175.9	169.6	158.6	148.7	134.0							7
8	160.7	146.0	137.6	127.0	122.8	116.3	102.7					8
9	134.1	125.6	119.8	114.6	109.3	103.9	98.9	89.1	78.0	73.0	68.2	9
10	120.5	113.8	107.3	103.0	98.2	93.7	89.5	82.8	77.3	73.0	68.2	10
12	98.3	91.4	88.8	84.9	79.4	77.3	74.7	70.9	64.4	62.4	59.8	12
14	81.9	77.9	74.8	67.8	69.0	66.3	61.8	60.2	54.7	54.6	52.4	14
16	67.9	66.9	64.4	61.9	55.0	54.9	55.2	51.0	48.2	47.3	45.5	16
18	57.7	57.2	55.9	54.2	52.3	49.4	48.4	46.5	43.4	40.8	38.6	18
20	49.9	49.4	49.2	48.0	46.3	43.9	39.9	38.7	38.9	37.7	36.1	20
22	43.8	43.3	43.0	42.6	41.2	39.8	38.2	35.4	34.6	33.6	32.3	22
24	38.8	38.4	38.1	37.6	37.2	35.8	34.5	32.9	31.1	30.1	26.0	24
26	34.7	34.3	34.0	33.6	33.2	32.4	31.1	28.7	27.7	26.0	24.6	26
28	31.2	30.8	30.6	30.1	29.3	29.2	27.7	26.8	25.9	24.9	23.4	28
30	28.2	27.9	27.7	27.2	26.8	26.3	25.8	24.6	23.5	23.0	21.9	30
32		25.4	25.1	24.7	24.3	23.8	23.3	22.5	21.4	20.9	20.3	32
34		23.2	22.9	22.5	22.1	21.6	21.1	20.5	19.5	19.0	18.5	34
36		21.2	21.0	20.6	20.2	19.6	19.2	18.7	17.9	17.4	16.8	36
38		19.4	19.3	18.8	18.5	17.9	17.5	16.9	16.4	15.9	15.4	38
40			17.7	17.3	16.9	16.4	16.0	15.4	14.2	14.6	14.1	40
42			16.3	15.9	15.6	14.9	14.7	13.7	13.4	13.4	12.9	42
44			15.1	14.8	14.4	13.9	13.4	12.9	12.4	12.1	11.8	44
46				13.6	13.3	12.8	12.3	11.8	11.3	11.0	10.7	46
48				12.6	12.2	11.7	11.3	10.7	10.2	10.0	9.7	48
50				11.6	11.3	10.8	10.3	9.8	9.3	9.0	8.7	50
55					9.2	8.7	8.3	7.7	7.3	7.0	6.7	55
60						7.0	6.6	6.1	5.6	5.3	5.0	60
65							5.1	4.6	4.1	3.9	3.6	65
70								3.4	2.9	2.7	2.4	70

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



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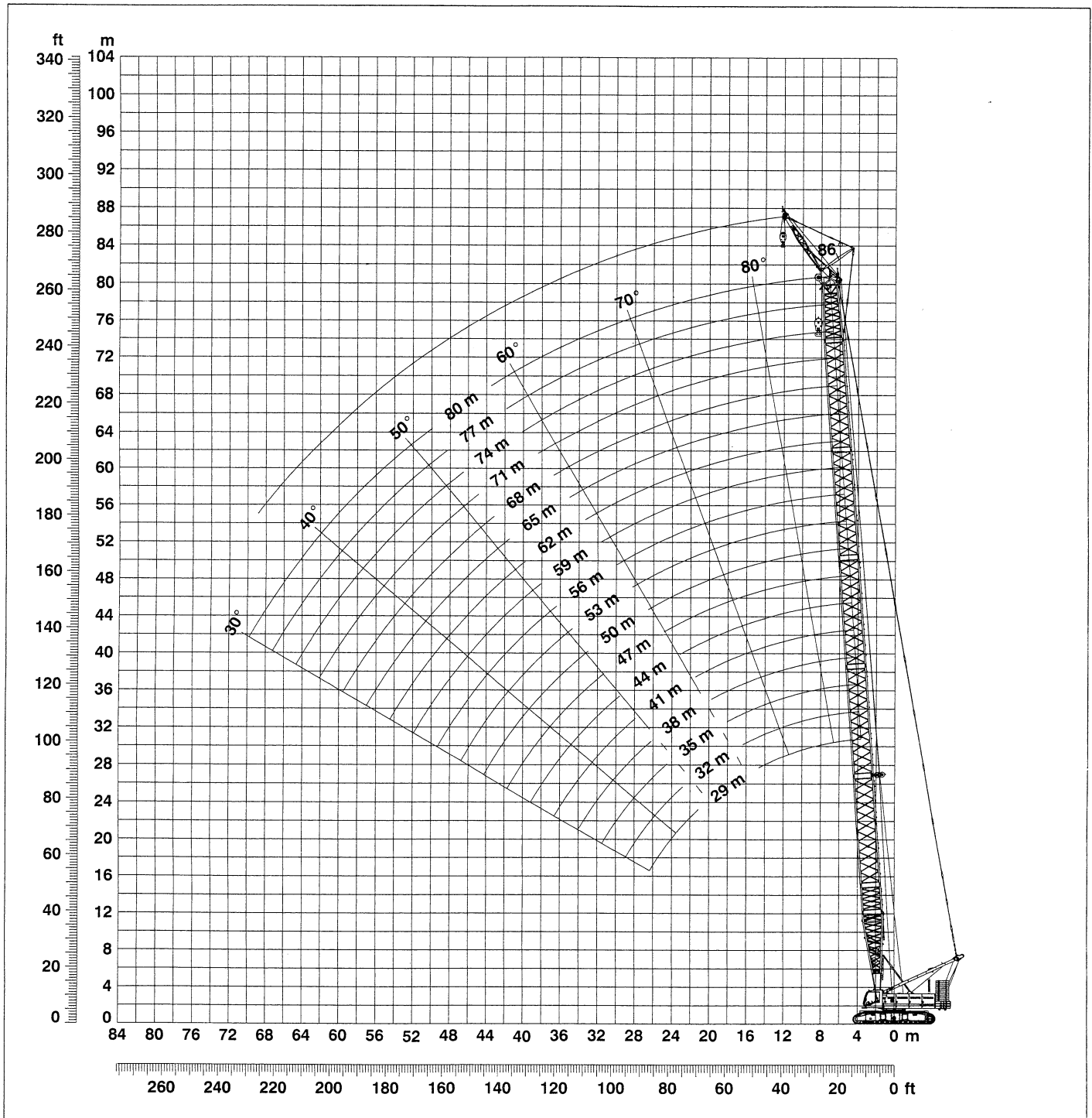
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LR 1280-2-W 280 Ton Crawler

with adjustable tracks 7.5 - 4.8m

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Working Range – fixed jib (No.0906.xx) 30 degrees Main boom 88 – 30 degrees



Boom configuration for boom lengths (29m to 80m) – see table 1 on page 3



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Lift chart – fixed jib (No.0906.xx) 7m Offset 30 degrees

Main boom 29 m		Main boom 32 m		Main boom 38 m		Main boom 44 m	
Radius (m)	t	Radius (m)	t	Radius (m)	t	Radius (m)	t
7.3	74.1	7.5	80.0	7.7	83.4	7.9	82.8
10	70.8	10	75.9	10	77.8	10	78.9
12	68.6	12	71.5	12	73.7	12	74.5
14	66.4	14	67.7	14	69.4	14	70.7
16	62.3	16	63.7	16	65.5	16	63.1
18	58.8	18	58.6	18	56.1	18	55.3
20	50.9	20	50.7	20	50.3	22	43.7
22	44.6	22	44.4	22	44.0	26	34.4
24	39.5	24	39.3	24	39.0	30	27.9
26	35.3	26	35.1	26	34.8	34	23.0
28	31.8	28	31.6	30	28.2	38	19.3
30	28.8	30	28.6	34	23.3	42	16.2
32	26.2	34	23.7	38	19.6	46	13.8
34	23.8	36	21.7	42	16.5	48	12.7

Main boom 50 m		Main boom 56 m		Main boom 62 m		Main boom 65 m	
Radius (m)	t	Radius (m)	t	Radius (m)	t	Radius (m)	t
8.1	82.2	8.3	81.6	8.5	80.9	8.6	80.5
10	79.3	10	79.6	10	79.9	10	80.0
12	75.3	12	76.1	12	76.3	12	74.9
14	70.4	14	67.8	14	65.2	16	55.5
16	60.8	16	56.9	16	56.5	20	43.1
20	47.2	20	45.5	20	43.9	24	34.6
24	37.9	24	36.6	24	35.2	28	28.3
28	30.5	28	29.6	28	28.8	32	23.5
32	24.8	32	24.4	32	24.0	36	19.5
36	20.6	36	20.2	36	19.7	40	16.1
40	17.2	40	16.8	40	16.3	44	13.5
44	14.6	44	14.2	44	13.7	50	10.3
48	12.3	50	11.0	50	10.5	60	6.4
50	11.3	55	8.8	60	6.5	65	4.9

Main boom 68 m		Main boom 74 m		Main boom 77 m		Main boom 80 m	
Radius (m)	t	Radius (m)	t	Radius (m)	t	Radius (m)	t
8.7	77.6	8.9	73.3	9	72.8	9.1	72.2
10	77.4	10	73.3	10	72.8	10	72.2
12	73.3	12	69.8	12	69.2	12	67.8
16	54.4	16	52.4	16	51.5	16	50.5
20	42.3	20	40.7	20	40.0	20	39.2
24	33.9	24	32.6	24	32.0	24	31.3
28	27.3	28	26.3	28	26.0	28	25.4
32	22.9	32	21.9	32	21.4	32	20.9
36	19.2	36	18.2	36	17.8	36	17.3
40	15.9	40	15.2	40	14.1	40	13.8
44	13.2	44	12.7	44	12.4	44	12.0
50	10.0	50	9.5	50	9.3	50	9.0
60	6.1	60	5.6	60	5.4	60	5.1
65	4.6	70	2.8	70	2.6	70	2.3

Capacities in metric tons with fixed jib (No. 0906.xx) 85.5 t counterweight + 32 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.



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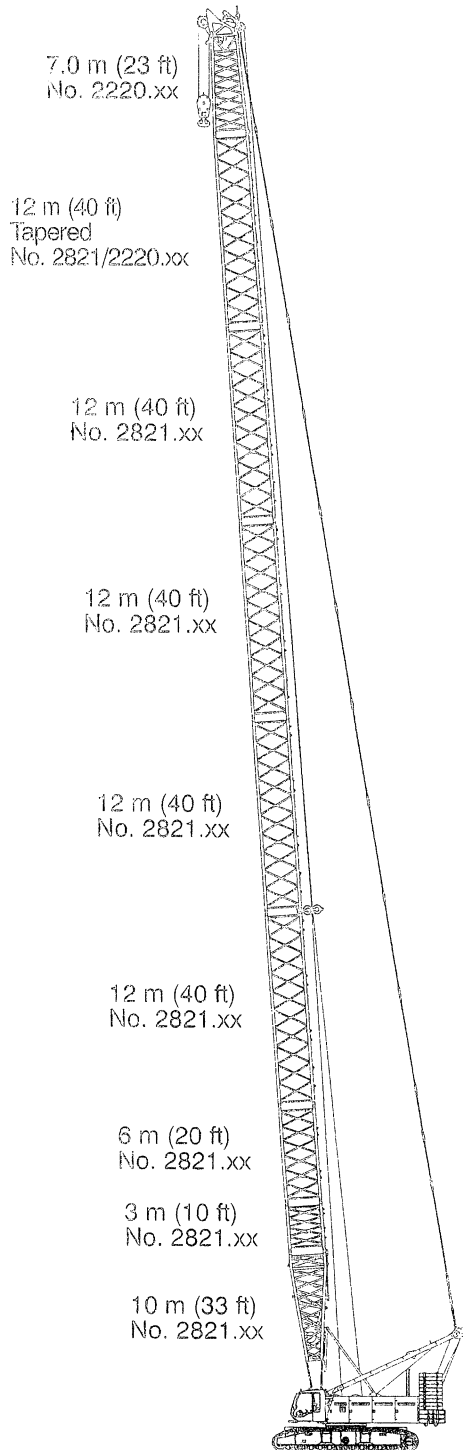
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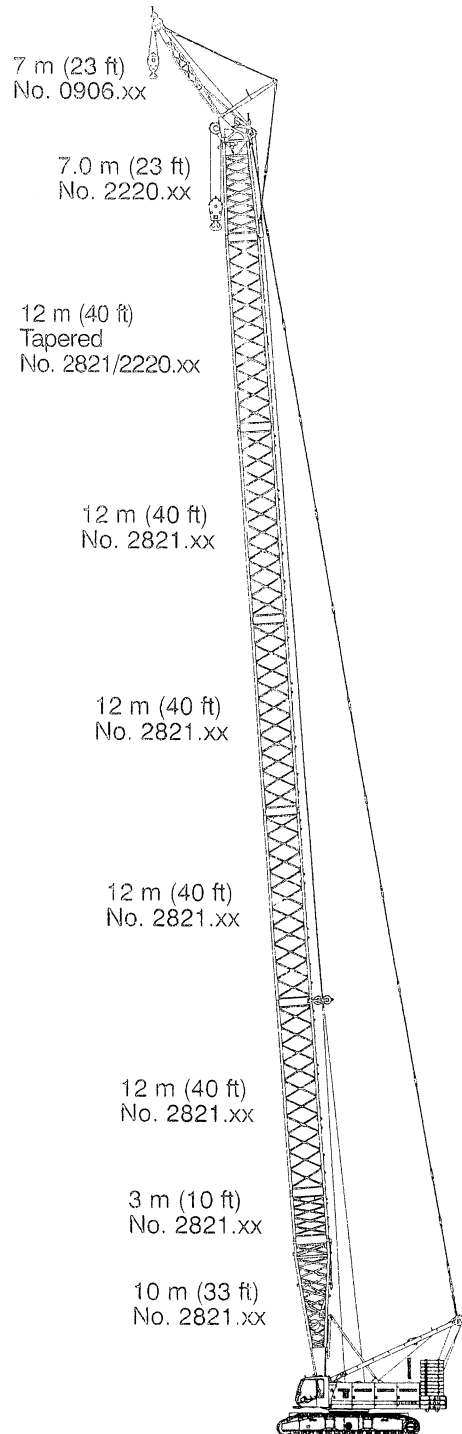
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Boom combinations



Max. combination ——— 86 m
 Main boom No. 2821.xx ——— 67 m
 Tapered No. 2821/2220.xx ——— 12 m
 Boom head No. 2220.xx ——— 7 m



Max. combination ——— 87 m
 Main boom No. 2821.xx ——— 80 m
 Fixed jib No. 0906.xx ——— 7 m



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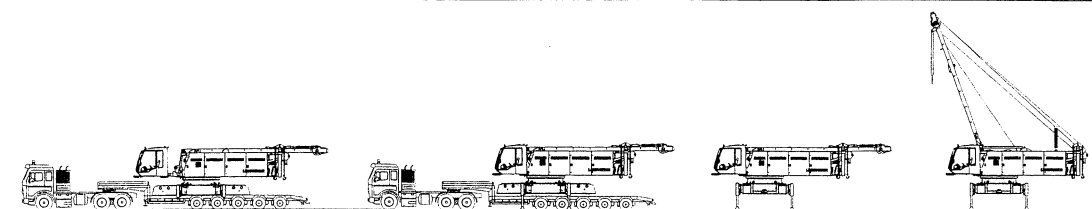
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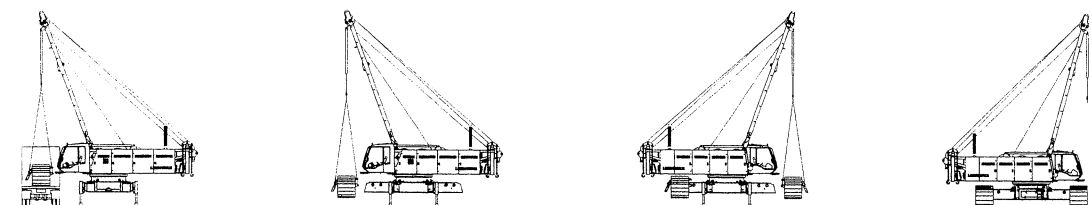
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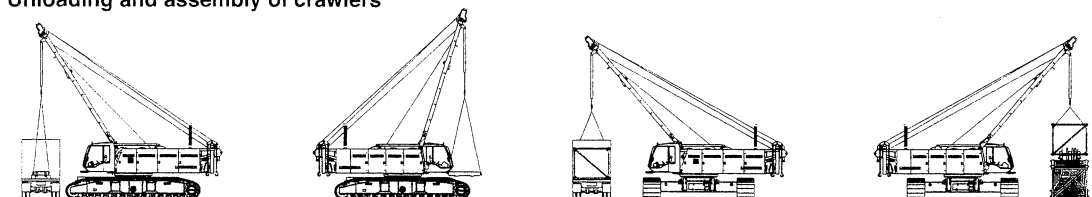
Self assembly system



Unloading of basic machine

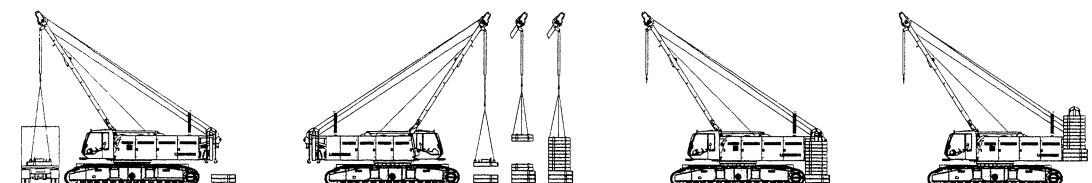


Unloading and assembly of crawlers

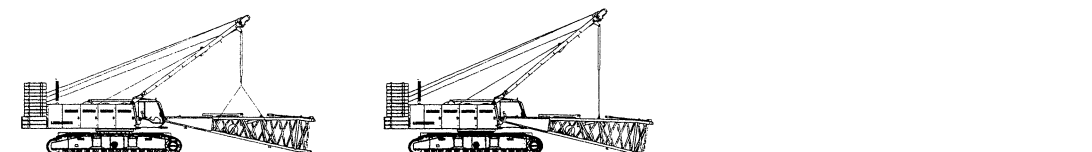


Unloading and assembly of carbody counterweight

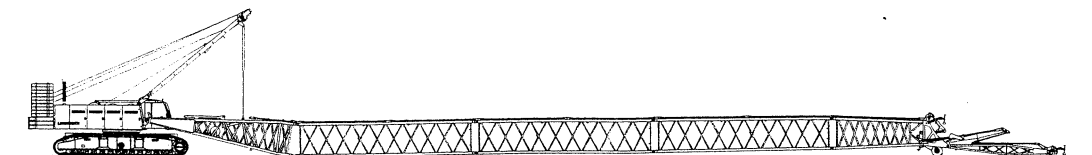
Unloading and assembly of boom



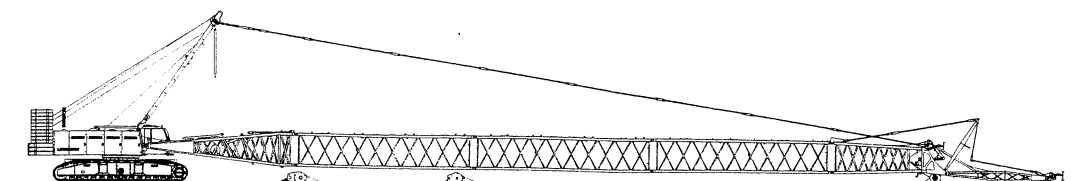
Unloading and assembly of counterweight



Unloading and assembly of boom foot



Assembly of boom



Reeving of hoist and fixed jib ropes



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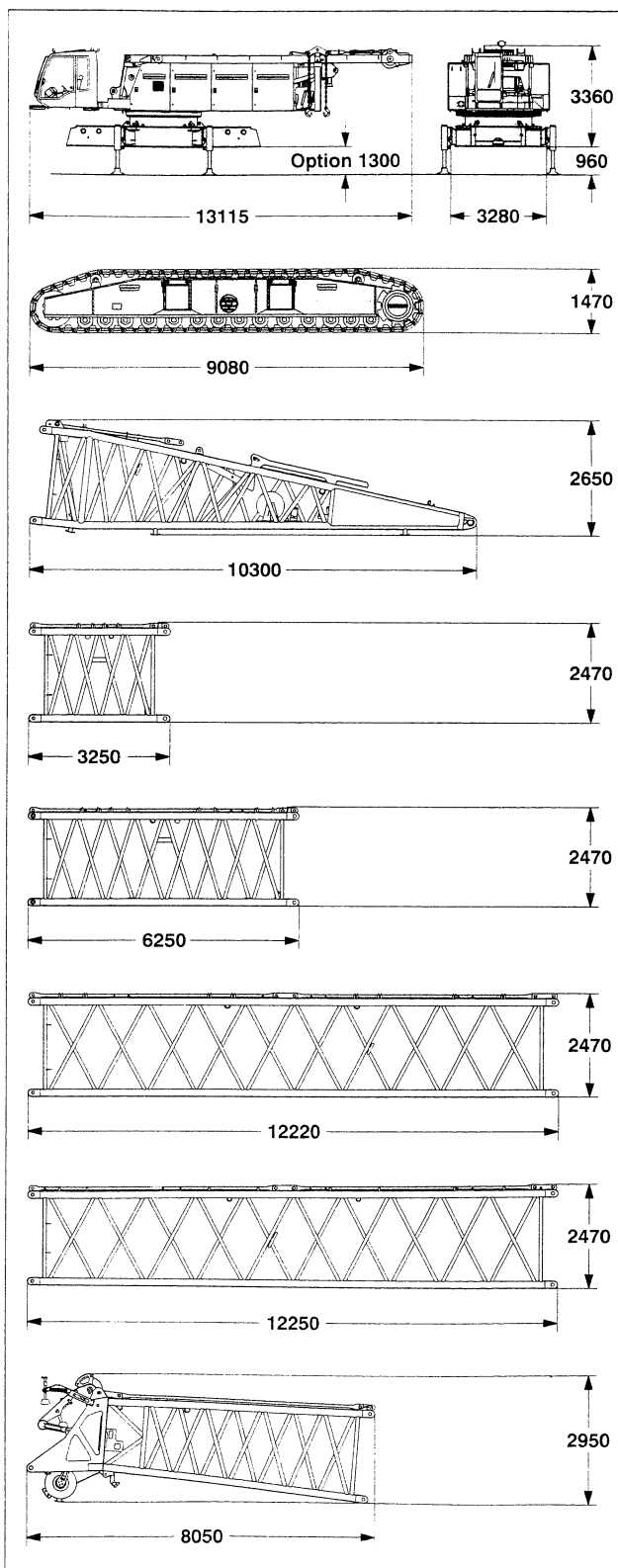
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Transportation dimensions and weights Basic machine and boom (No.2821 / 2220.xx) * including pendants



Basic machine

with A-frame, 2x 150 kN crane winches including wire ropes (max. 665 m), without crawlers, boom foot, basic counterweight and carbody counterweight

Width _____ mm _____ 3500
 Weight _____ kg _____ 45600

Crawler

2x

Flat track shoes _____ mm _____ 1200
 Width _____ mm _____ 1250
 Weight _____ kg _____ 21500

Boom foot (No. 2821.30)

Width _____ mm _____ 2970
 Weight* _____ kg _____ 5700

Boom section (No. 2821.24)

3 m

Width _____ mm _____ 2970
 Weight* _____ kg _____ 1100

Boom section (No. 2821.24)

6 m

Width _____ mm _____ 2970
 Weight* _____ kg _____ 1700

Boom section (No. 2821.24)

12 m

Width _____ mm _____ 2970
 Weight* _____ kg _____ 2900

L - boom

section tapered (No. 2821/2220.24)

12 m

Width _____ mm _____ 2970
 Weight* _____ kg _____ 2850

Boom head (No. 2220.xx)

Width _____ mm _____ 2420
 Weight* _____ kg _____ 4690



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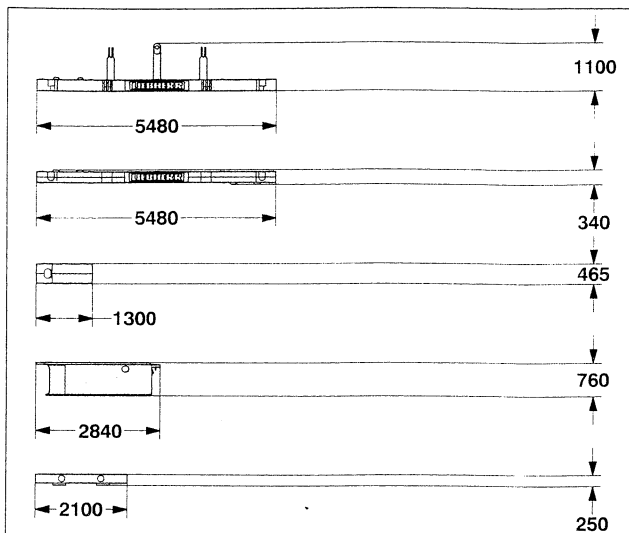
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Transportation dimensions and weights



Counterweight

1x

Width _____ mm _____ 1660
 Weight _____ kg _____ 13300

Counterweight

2x

Width _____ mm _____ 1660
 Weight _____ kg _____ 10600

Counterweight

10x

Width _____ mm _____ 1360
 Weight _____ kg _____ 5100

Carbody counterweight

2x

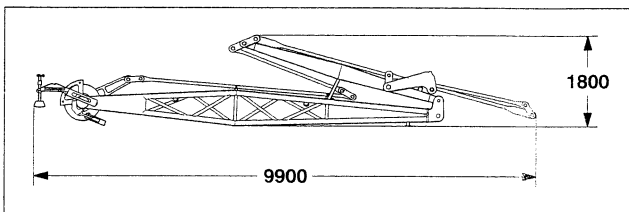
Width _____ mm _____ 1650
 Weight _____ kg _____ 10400

Carbody counterweight

2x

Width _____ mm _____ 1620
 Weight _____ kg _____ 5600

Fixed jib (No. 0906.xx)

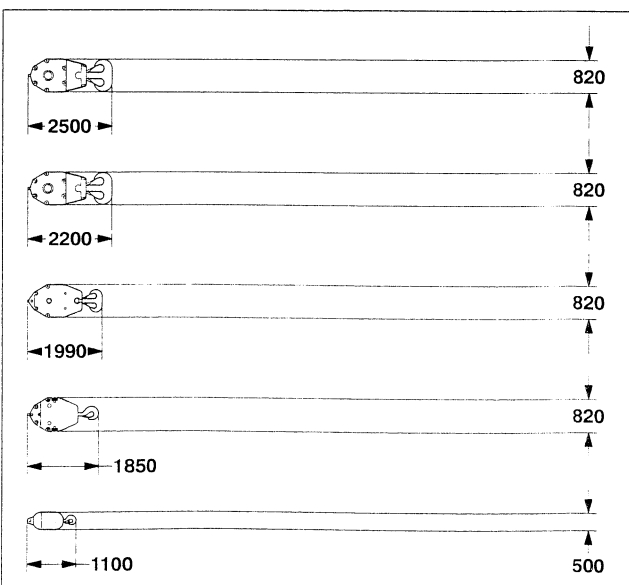


*) Including pendants

Fixed jib with A-frame

Width _____ mm _____ 2700
 Weight* _____ kg _____ 2350

Hooks



300 t hook block - 11 sheaves

Width _____ mm _____ 880 — 1230
 Weight _____ kg _____ 3200 — 5500

150 t hook block - 5 sheaves

Width _____ mm _____ 500 — 660 — 820
 Weight _____ kg _____ 1600 — 2800 — 4000

100 t hook block - 3 sheaves

Width _____ mm _____ 340 — 480 — 620
 Weight _____ kg _____ 1100 — 2050 — 3000

50 t hook block - 1 sheave

Width _____ mm _____ 280 — 410 — 540
 Weight _____ kg _____ 800 — 1600 — 2400

16 t single hook

Width _____ mm _____ 500
 Weight _____ kg _____ 900