

EN-US

Derrick for 440 US t crane

LR 1007.02.08

www.liebherr.com

LIEBHERR

Crawler cranes



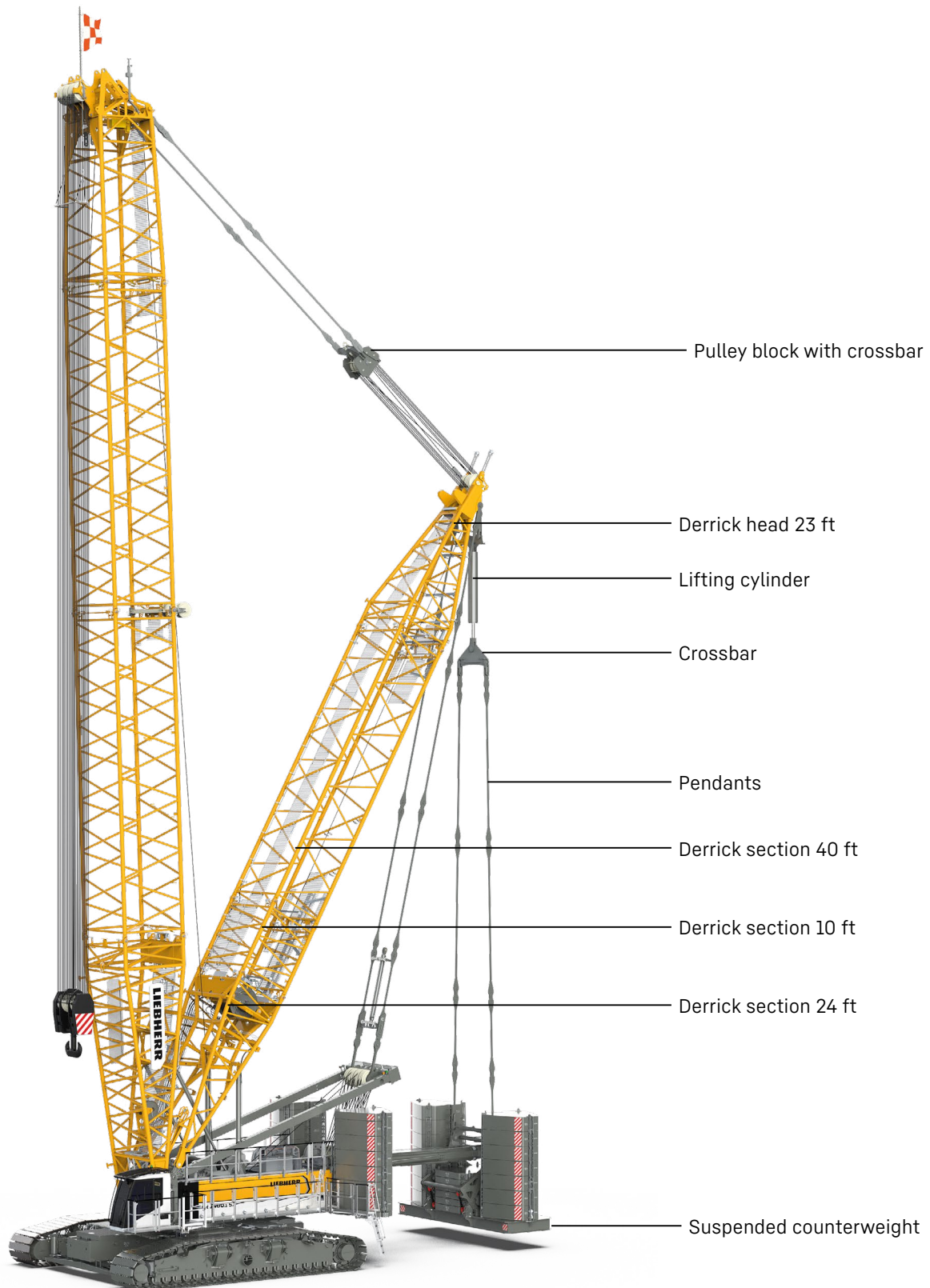
Concept and characteristics	3
Dimensions	7
Transport dimensions and weights	8
Boom combinations	10
Main boom 2825.XX (134-390 ft)	12
Luffing jib 2421.XX (66-361 ft)	14
Fixed jib 1507.20 (26 ft)	20
Notes	22

Remarks

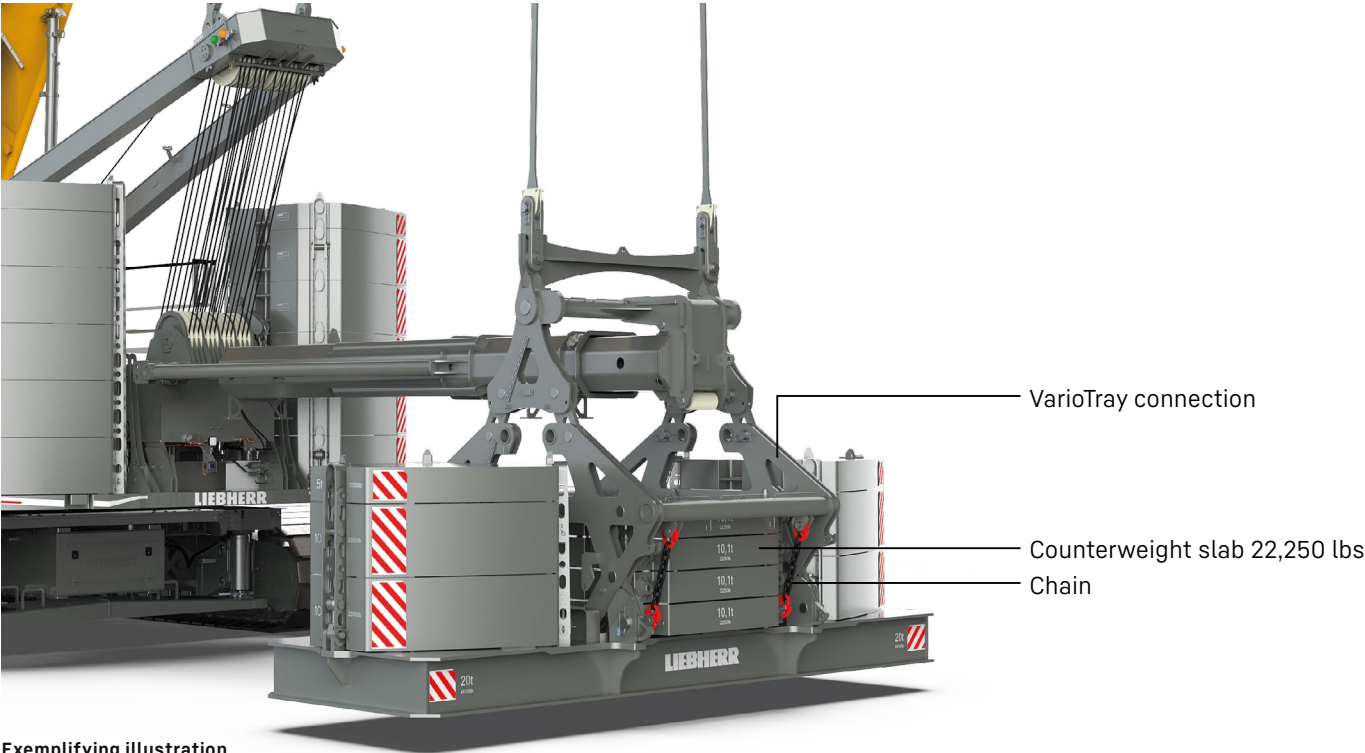
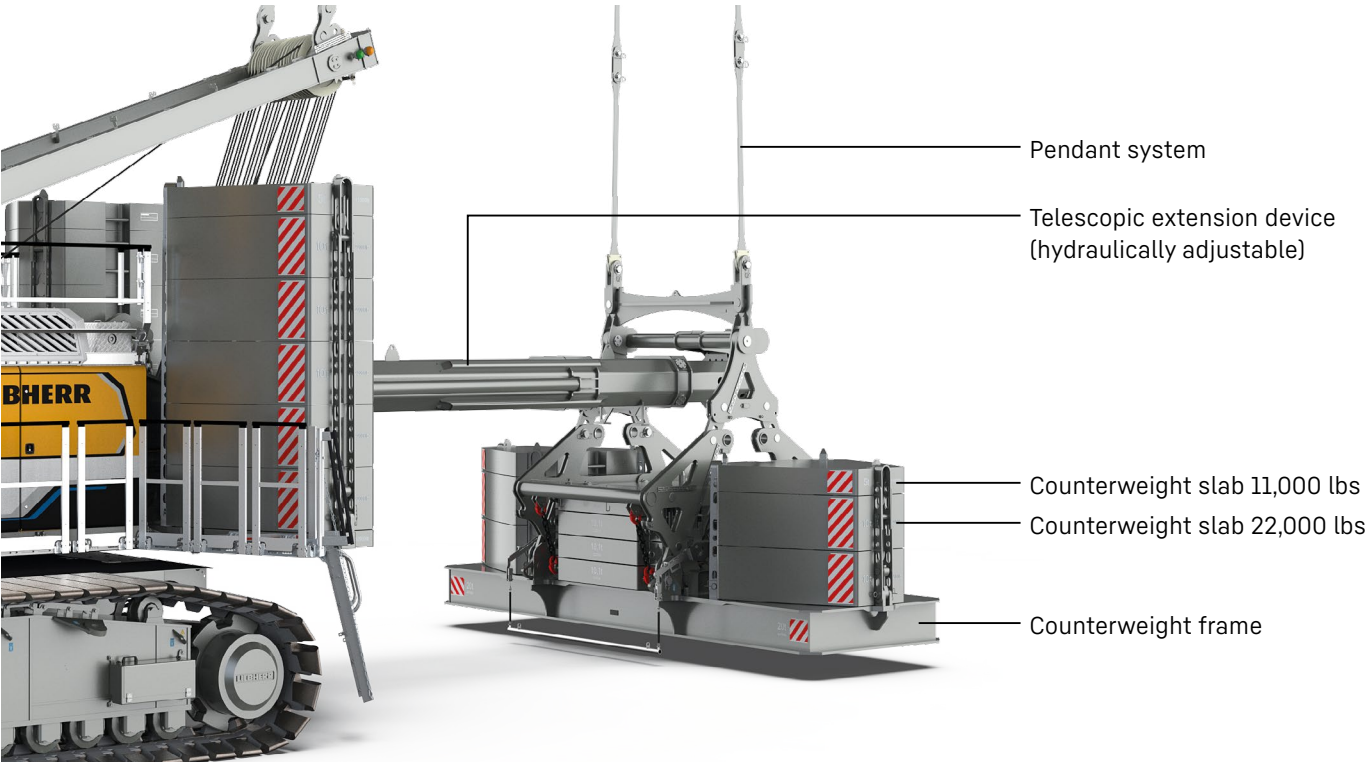
- The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).
- Machine is standing on firm, horizontal ground.
- The weight of the lifting device (pulley block, hoist ropes, shackles etc.) must be deducted from the load capacity.
- Additional equipment on boom (e.g. walkways) must be deducted from the lifting capacity.
- The max. admissible wind speed can be preselected in the LML software and referred to in the load chart.
- Working radii are measured from centre of swing and under load.
- The lifting capacities are valid for 360 degrees of swing.
- Calculation of stability under load was carried out according to ISO 4305 Table 1 + 2 + 3, tipping angle 4°, as well as ANSI/ASME B 30.5 and was tested according to SAE J765 and SAE J987.
- The steel structures are calculated according to EN 13001-1; EN 13001-2.
- Weights may vary depending on the delivered configuration of the machine filling level of the tanks as well as generally valid tolerances.
- The figures in this brochure may include options which are not within the standard scope of supply of the machine.
- Subject to technical change without notice.

Concept and characteristics

Derrick equipment with suspended counterweight



Suspended counterweight

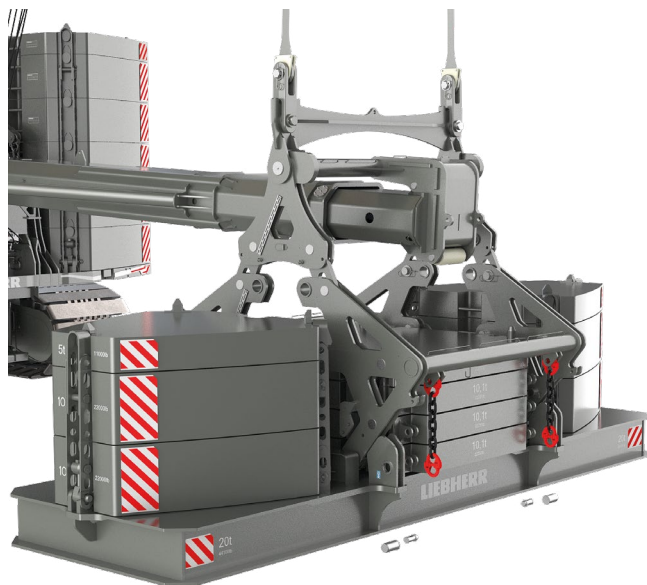


Exemplifying illustration

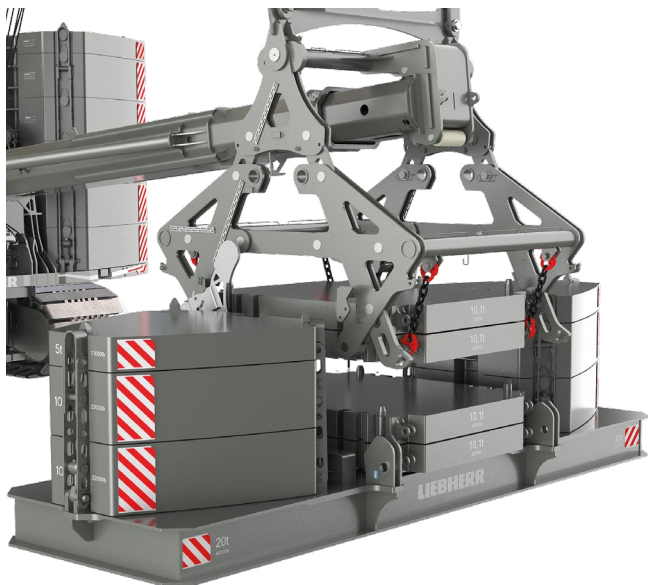
How VarioTray works



Suspended counterweight is positioned on the ground.



Unbolting of the VarioTray connection and the 22,250-lbs counterweight slabs.

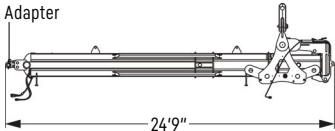
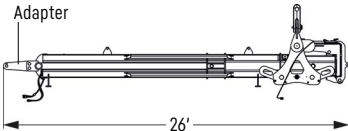


Counterweights required for the lift are bolted to the VarioTray connection. No auxiliary crane is required to change the 22,250-lbs counterweights.

Exemplifying illustration

Overview and conversion options

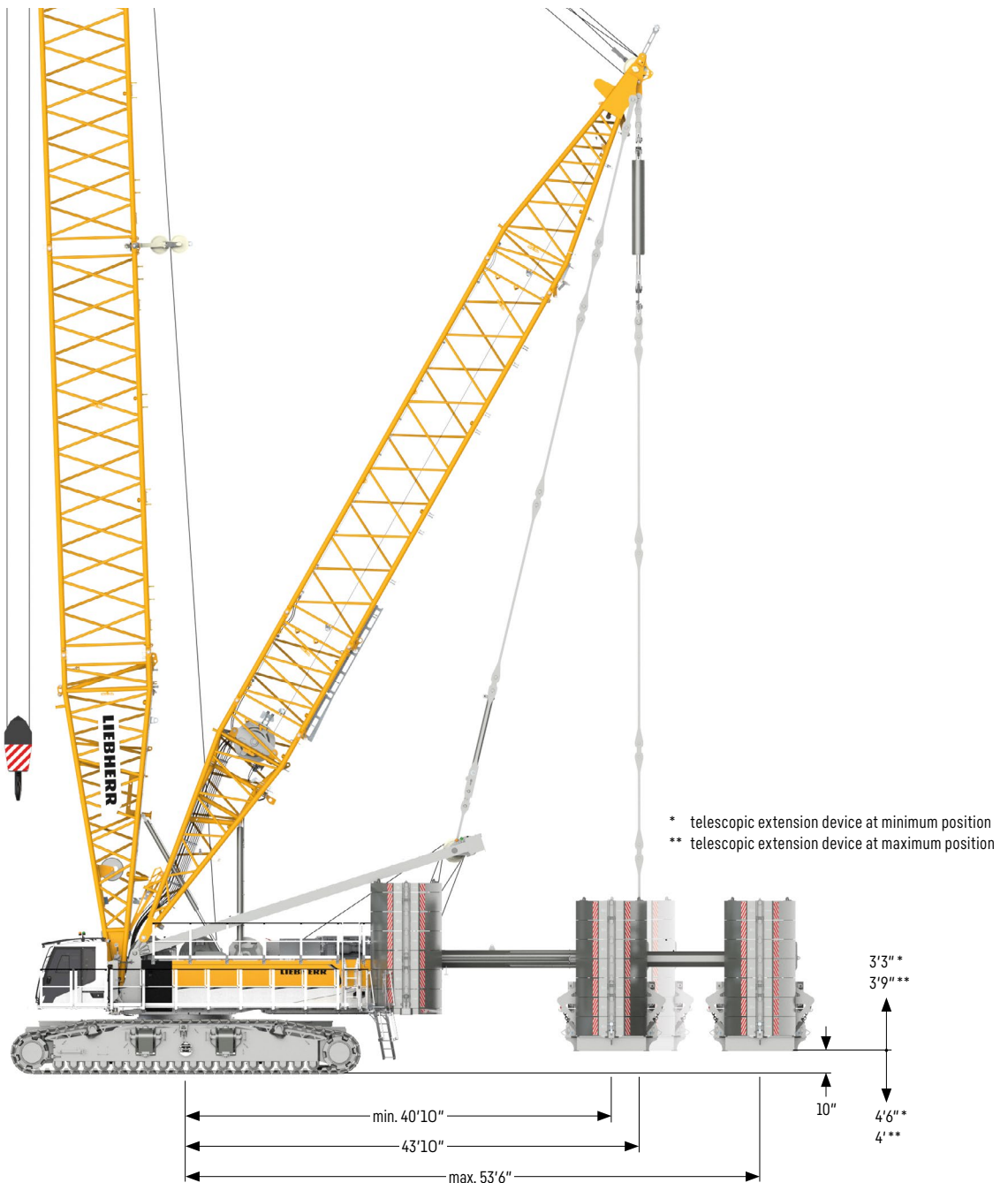
Overview derrick for 331 US t crane / 440 US t crane		
	331 US t crane	440 US t crane
Standard connection	✓	-
VarioTray connection	✓	✓

Derrick conversion option for 331 US t crane / 440 US t crane		
	331 US t crane	440 US t crane
Telescopic extension device		

By using the correct adapter, the extension device can be used for both the 331 US t and the 440 US t crane.

Dimensions

Derrick equipment with suspended counterweight

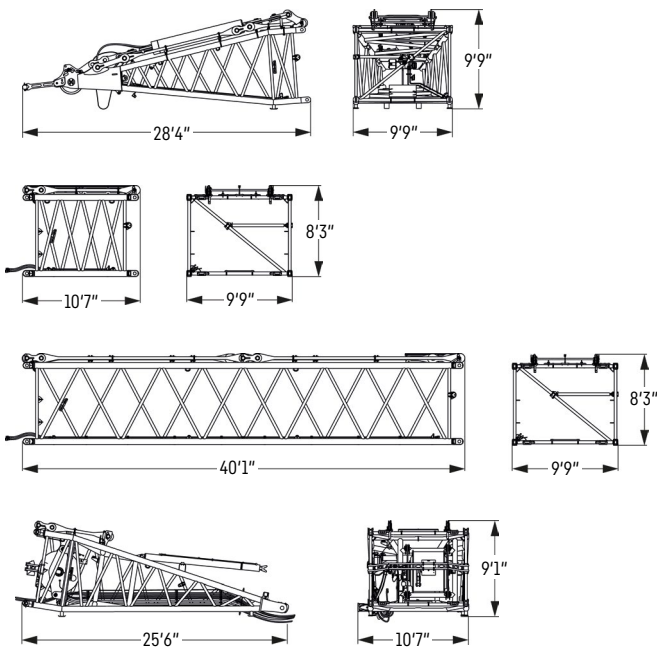


Telescopic extension device (hydraulic)

The hydraulic extension device is continuously adjustable from 40.8 to 53.5 ft.

Transport dimensions and weights

Derrick equipment 2821.xx



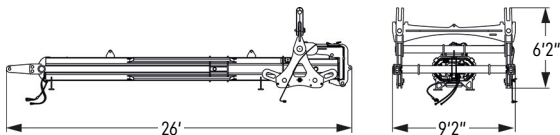
Derrick head 23 ft (No. 2821.30)	
Weight including lifting cylinder with crossbar, including pulley block with crossbar	lbs 15,851

Derrick section 10 ft (No. 2821.30)	
Weight incl. pendant straps	lbs 3,188

Derrick section 40 ft (No. 2821.30)	
Weight incl. pendant straps	lbs 9,149

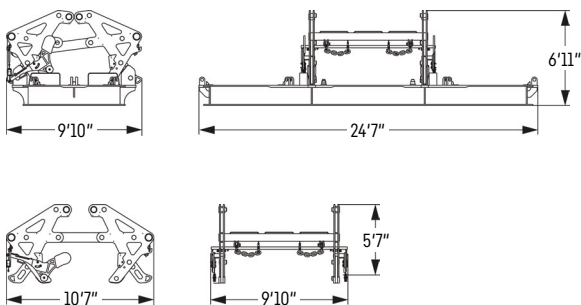
Derrick foot 24 ft (No. 2821.32)	
Weight including rope	lbs 23,589

Telescopic extension device



Telescopic extension device	
Weight	lbs 13,539

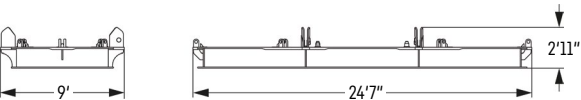
VarioTray connection transport options



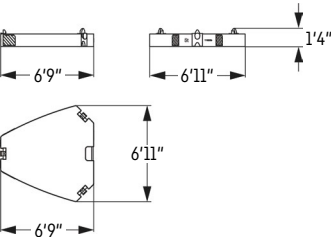
VarioTray connection with counterweight frame	
Weight	lbs 49,882

VarioTray connection	
Weight	lbs 5,789

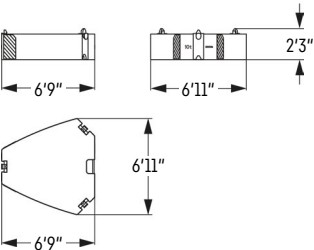
Counterweight



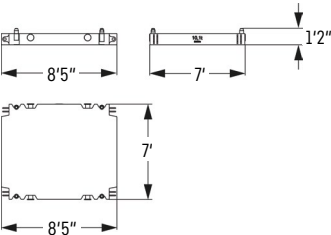
Counterweight frame		
Weight	lbs	44,100



Counterweight slab		
0x	lbs	11,000

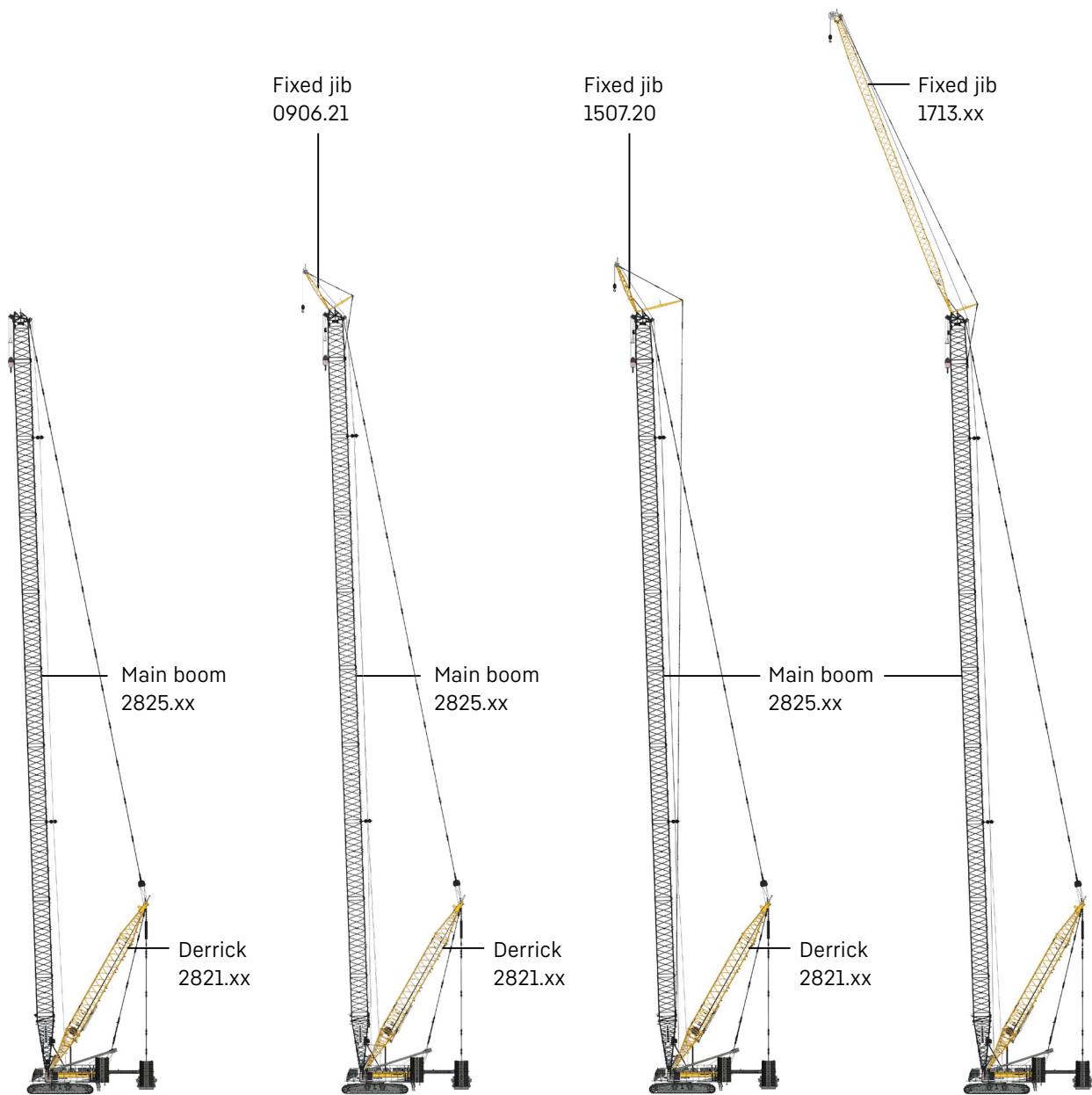


Counterweight slab		
14x	lbs	22,000



Counterweight slab for optional VarioTray connection		
6x	lbs	22,250

Boom combinations

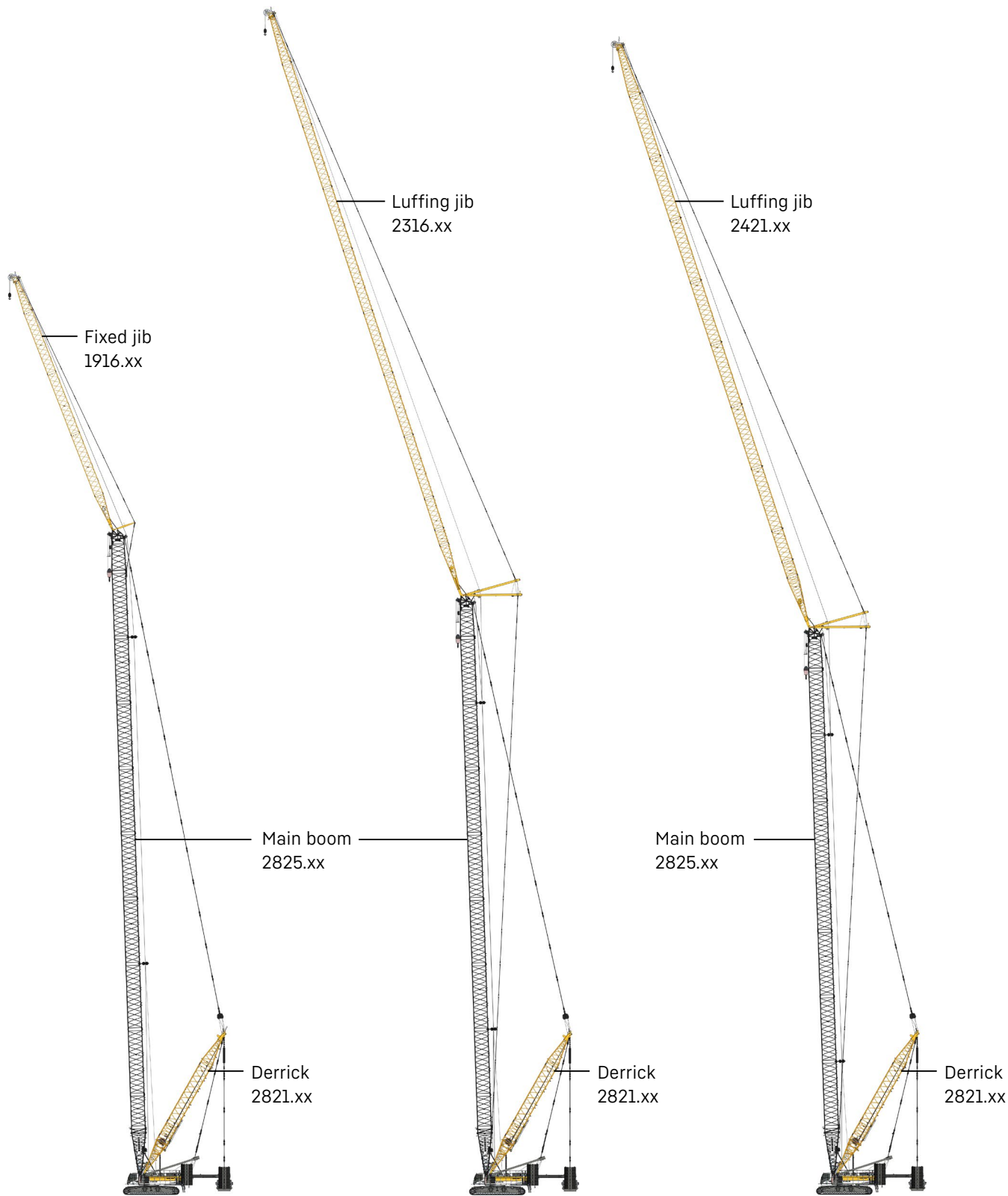


Main boom	
Mode 6	
Max. length	
2825.xx	ft 390
Further information on page 12.	

Main boom + fixed jib	
Mode 8	
Max. combination	
2825.xx	ft 390
0906.21	ft 23
Total length	ft 413

Main boom + fixed jib	
Mode 8	
Max. combination	
2825.xx	ft 390
1507.20	ft 26
Total length	ft 416
Further information on page 20.	

Main boom + fixed jib	
Mode 8	
Max. combination	
2825.xx	ft 390
1713.xx	ft 115
Total length	ft 505



Main boom + fixed jib

Mode 8

Max. combination

2825.xx	ft	390
1916.xx	ft	164
Total length	ft	554

Main boom + luffing jib

Mode 9

Max. combination

2825.xx	ft	351	390
2316.xx	ft	371	134
Total length	ft	722	524

Main boom + luffing jib

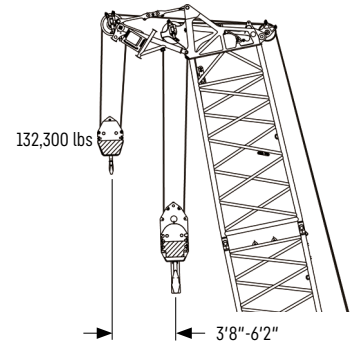
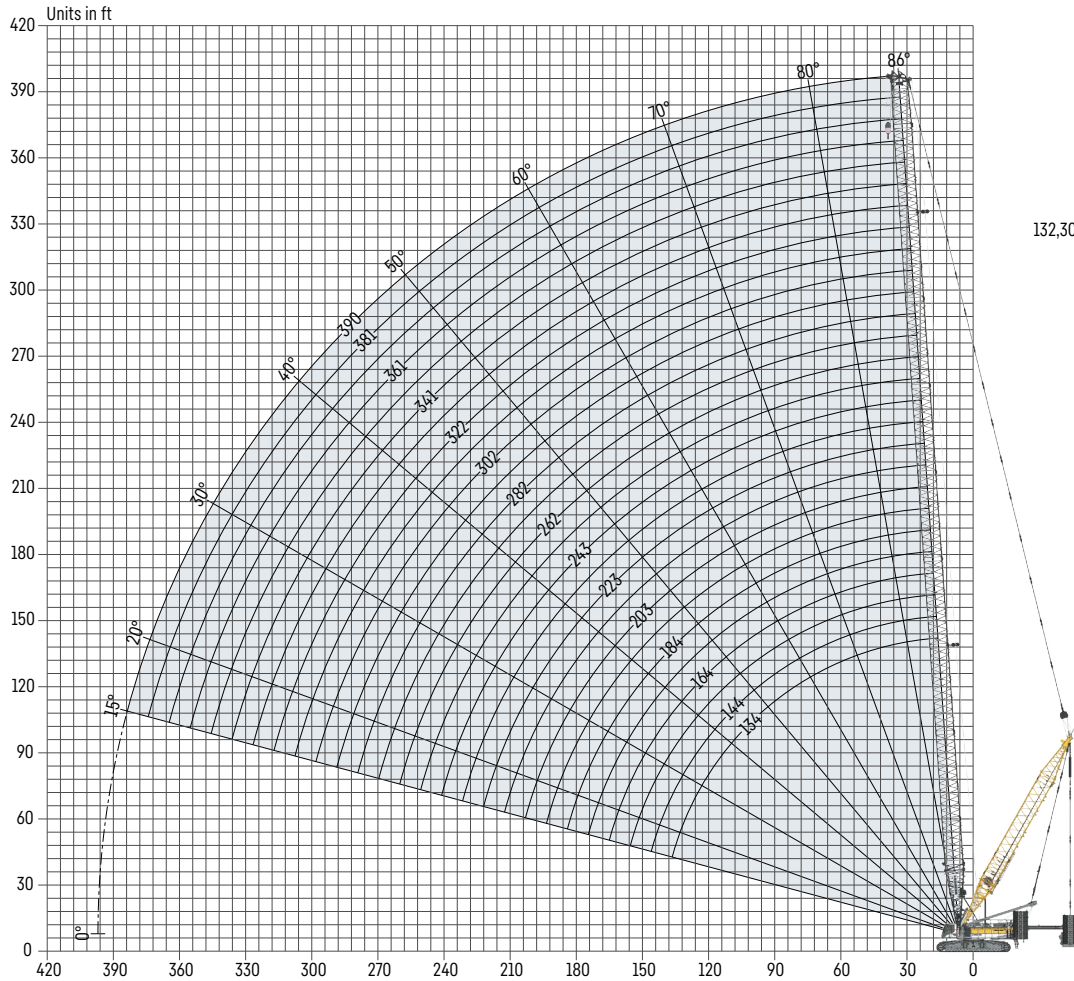
Mode 9

Max. combination

2825.xx	ft	331	371
2421.xx	ft	361	223
Total length	ft	692	594

Further information on page 14.

Main boom 2825.XX (134-390 ft)



Auxiliary jib 132,300 lbs

(option)

The maximum capacity of the auxiliary jib for the main boom is 132,300 lbs. The corresponding load chart is programmed in the LML system.

Main boom configuration 2825.xx

Boom section	Amount of jib sections													
Boom foot 33 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom section 10 ft		1		1		1		1		1		1		1
Boom section 20 ft			1	1			1	1			1	1		
Boom section 40 ft	2	2	2	2	3	3	3	3	4	4	4	4	5	5
Boom head 23 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Boom length [ft]	134	144	154	164	174	184	194	203	213	223	233	243	253	262
Auxiliary jib	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Boom foot 33 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	
Boom section 10 ft		1		1		1		1		1		1		
Boom section 20 ft	1	1			1	1			1	1			1	
Boom section 40 ft	5	5	6	6	6	6	7	7	7	7	8	8	8	
Boom head 23 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	
Boom length [ft]	272	282	292	302	312	322	331	341	351	361	371	381	390	
Auxiliary jib	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				

Actual lengths of boom sections are metric (e.g. 3 m, 6 m). The figures shown above are approximate conversions to feet.

Load capacities with main boom

Load capacity in 1000 lbs

	Boom length [ft]											
	135	154	174	194	213	233	253	282	312	341	371	390
20.89	755.6											
30	755.6	737.3	655.2	573.9	506.4	425.5	372.1					
40	721.4	687.1	619.7	553.1	497.9	421.7	370.5	294.5	240.5	198.3	166.6	147.0
50	650.8	619.8	574.3	536.7	492.2	416.4	365.8	291.6	238.8	197.1	165.8	146.8
55	600.8	597.1	552.6	521.2	481.5	414.1	364.1	290.0	237.5	196.2	165.4	146.7
60	558.2	555.1	535.7	508.3	471.7	410.1	361.7	288.7	236.4	195.2	164.6	146.2
65	523.4	516.6	505.1	498.0	463.4	406.6	358.6	287.1	235.5	194.3	163.9	145.5
70	493.5	483.8	473.6	474.0	456.6	403.6	355.9	284.8	234.6	193.6	163.2	144.9
75	460.1	457.0	446.2	444.0	439.8	401.1	353.5	282.7	233.2	192.9	162.7	144.3
80	430.2	431.2	422.7	417.2	413.2	392.1	351.5	280.9	231.9	191.9	162.3	143.9
85	403.9	404.9	403.5	393.8	389.1	371.9	346.8	279.3	230.8	191.0	161.5	143.2
90	381.6	381.0	381.1	373.8	367.6	353.5	331.5	278.0	229.8	190.2	160.8	141.9
95	361.8	359.7	359.6	356.4	348.8	336.8	317.5	273.3	228.9	189.4	160.2	140.7
100	341.8	341.2	340.0	337.7	332.7	321.8	304.6	265.6	228.2	188.7	159.6	139.6
105	323.1	325.4	322.2	320.3	317.6	308.8	292.9	258.4	223.2	188.1	159.0	138.6
110	306.0	309.5	306.4	304.2	302.1	297.6	282.4	251.8	217.6	187.4	158.6	137.6
115	290.8	294.4	292.7	289.4	287.6	284.6	273.3	245.7	212.4	184.4	158.2	136.8
120	275.2	280.3	280.2	276.1	274.1	271.6	265.0	240.2	207.6	181.6	157.2	136.1
125	254.5	267.3	268.1	264.4	261.6	259.3	253.8	235.3	203.2	179.0	155.4	135.0
130	233.7	255.5	256.5	254.0	250.2	247.9	243.2	231.0	199.1	176.5	153.6	132.0
135	212.5	244.7	245.6	243.9	240.0	237.2	233.1	223.9	195.4	174.2	152.0	129.3
145		217.8	226.2	225.0	222.5	218.4	214.8	205.4	188.9	170.2	149.0	124.2
155		190.3	207.6	208.1	206.2	203.2	199.1	188.6	175.9	166.8	146.3	119.7
165			186.3	193.8	191.4	189.1	186.1	173.8	164.0	158.5	144.1	115.8
175			164.4	177.4	178.4	176.1	173.9	161.0	153.2	148.8	139.6	112.5
190				151.5	159.6	159.1	157.0	145.4	139.3	135.7	128.0	106.4
210					131.6	137.7	138.2	127.1	123.9	121.3	114.6	98.5
220						126.0	129.2	119.0	116.3	115.5	108.9	95.0
230						114.1	119.1	111.7	109.2	108.3	103.8	91.8
240							109.0	105.2	102.6	101.4	99.1	88.9
250							98.6	98.4	96.6	94.9	92.8	86.4
265								88.1	87.9	85.9	83.8	78.6
280								77.6	75.2	78.0	75.7	71.0
290									70.2	72.2	70.6	67.4
305									63.0	66.4	64.2	61.1
325										54.0	55.1	53.8
335										47.6	49.9	
350											42.0	
365											33.8	

Carbody counterweight: 116,000 lbs with 4.9 ft track pads
Rear counterweight: 177,500/265,700/332,700 lbs
Suspended counterweight: 7,200-510,300 lbs / radius 40.8-53.5 ft

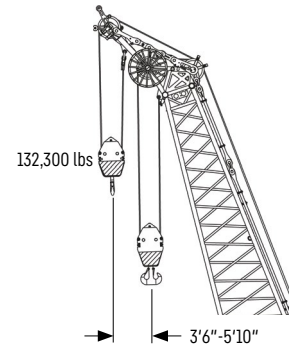
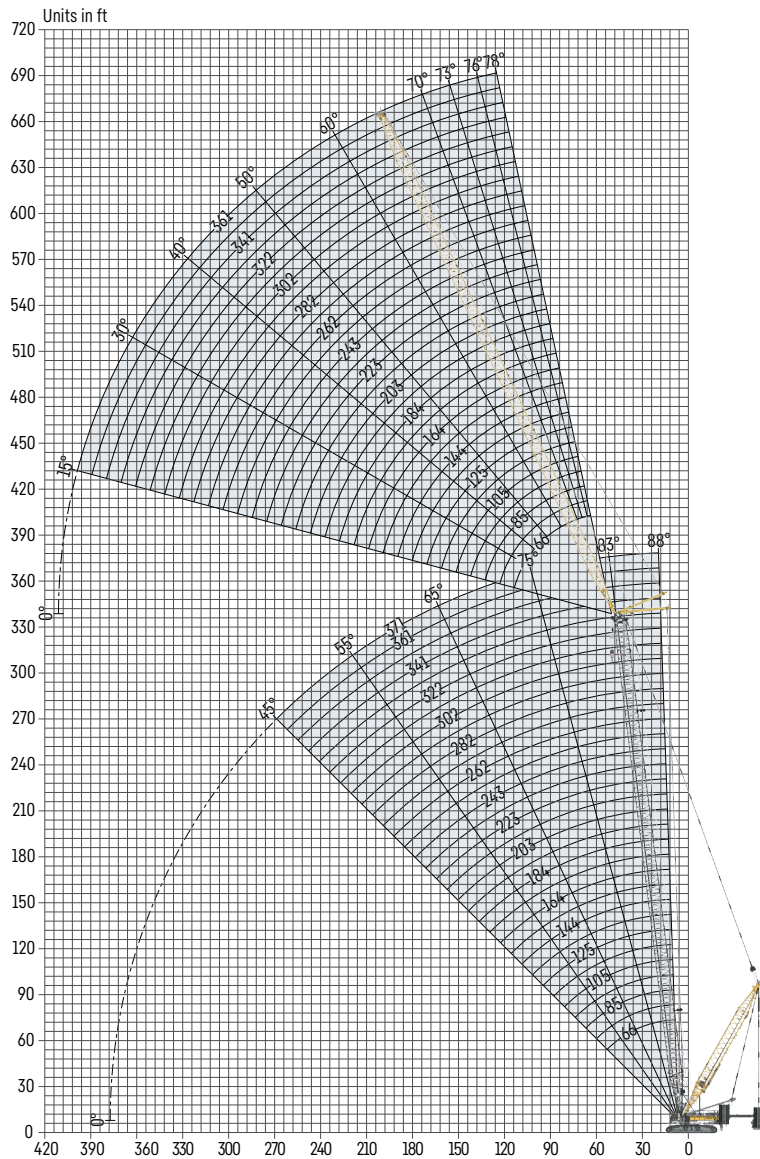
TLT 14147893/358688. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cabin or manual. Otherwise we recommend you to plan your lifting job using Crane Planner 2.0.



Crane Planner 2.0



Luffing jib 2421.XX (66-361 ft)



Auxiliary jib 132,300 lbs (option)

The maximum capacity of the auxiliary jib for the luffing jib is 132,300 lbs.

Jib configuration 2421.xx

Jib section	Amount of jib sections															
Jib foot 33 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Jib section 10 ft		1		1		1		1		1		1		1		1
Jib section 20 ft			1	1		1	1	1		1	1	1		1	1	1
Jib section 40 ft					1	1	1	1	2	2	2	2	3	3	3	3
Jib head 33 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Jib length [ft]	66	76	85	95	105	115	125	134	144	154	164	174	184	194	203	213
Auxiliary jib	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Jib foot 33 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Jib section 10 ft		1		1		1		1		1		1		1		
Jib section 20 ft			1	1		1	1	1		1	1	1		1	1	
Jib section 40 ft	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	
Jib head 33 ft	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Jib length [ft]	223	233	243	253	262	272	282	292	302	312	322	331	341	351	361	
Auxiliary jib	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Actual lengths of boom sections are metric (e.g. 3 m, 6 m). The figures shown above are approximate conversions to feet.

		Main boom [ft]																								
		135	144	154	164	174	184	194	203	213	223	233	243	253	263	272	282	292	302	312	322	331	341	351	361	371
Jib length [ft]	66	337.1	337.1	337.1	337.1	337.1	304.9	304.9	272.4	272.4	272.4	257.1	240.0													
	76	337.1	337.1	337.1	337.1	337.1	304.9	304.9	272.4	272.4	272.4	257.8	239.5	223.4	215.3	199.9	191.0									
	85	337.1	337.1	337.1	304.9	304.9	272.4	272.4	268.0	258.1	241.1	224.7	209.5	199.9	187.4	179.2	167.7	160.9	152.8							
	95	337.1	328.4	304.9	301.9	272.4	272.4	265.0	250.0	240.7	224.8	209.4	194.0	185.6	175.1	166.1	156.6	149.7	141.0	127.9	120.1	114.0	106.8			
	105	317.0	304.9	293.8	272.4	272.4	259.0	248.5	234.4	226.5	210.9	195.2	182.5	175.7	164.7	157.7	148.2	141.3	132.8	121.7	113.2	107.7	100.9	96.0	88.8	84.0
	115	293.6	284.2	272.2	262.2	254.4	241.4	232.5	219.6	211.3	196.0	182.4	170.4	163.1	154.1	146.8	138.1	130.8	123.3	112.7	105.8	100.6	94.9	88.7	83.6	78.2
	125	273.8	263.8	254.7	244.7	237.6	226.0	217.4	204.4	196.1	184.6	171.5	159.9	153.1	145.8	136.2	128.6	123.0	116.9	105.9	99.4	94.5	88.5	83.3	77.7	73.2
	135	254.0	246.4	237.4	228.0	222.2	211.1	201.9	191.0	183.2	171.5	160.3	149.5	143.6	134.0	127.4	121.2	115.0	108.2	98.9	92.8	89.0	82.5	77.6	72.1	66.3
	144	232.8	226.6	222.7	214.2	208.0	191.7	189.7	179.6	172.1	161.4	151.0	140.9	133.7	126.4	120.3	113.4	108.5	102.3	93.4	87.7	83.3	77.9	73.1	66.4	62.6
	154	214.7	209.7	205.1	198.5	193.0	184.2	177.2	167.8	160.8	150.7	140.7	130.5	126.0	118.2	113.2	106.1	101.4	96.4	88.0	81.8	77.6	72.4	67.1	61.2	58.0
	164	198.2	193.6	189.9	185.3	180.7	172.1	165.8	157.3	150.6	141.7	130.8	122.5	118.3	110.9	106.3	99.7	95.3	90.6	82.6	76.7	72.6	66.2	62.8	57.2	53.8
	174	184.7	180.1	176.4	171.9	167.7	161.0	154.5	147.2	140.7	130.8	122.1	114.3	109.5	103.5	98.5	93.8	88.9	83.8	76.2	69.4	66.0	61.0	57.2	53.0	50.0
	184	169.1	164.2	160.7	156.5	153.6	149.4	145.1	136.0	130.8	122.5	115.8	108.0	103.6	97.5	92.8	87.6	84.5	78.9	71.7	65.7	62.2	57.4	53.8	50.1	47.0
	194	158.4	153.9	150.7	146.8	144.0	138.6	133.8	127.0	122.2	114.8	107.3	100.4	97.5	91.0	87.3	81.8	78.1	74.0	65.9	60.5	57.7	53.2	50.0	45.7	42.7
	203	144.7	141.8	137.8	132.7	131.0	126.8	123.4	118.1	114.5	107.1	100.6	94.1	91.0	85.1	81.7	76.4	72.8	67.8	61.6	56.5	53.3	49.9	47.1	42.5	39.7
	213	127.3	124.7	123.2	119.6	117.7	114.8	112.0	108.9	106.4	100.3	94.0	87.8	84.3	79.8	75.9	69.2	66.4	62.5	56.5	52.3	49.6				

		Main boom [ft]																								
		135	144	154	164	174	184	194	203	213	223	233	243	253	263	272	282	292	302	312	322	331	341	351	361	371
Jib length [ft]	66	208.7	218.5	228.3	238.2	248.0	257.8	267.7	277.5	287.3	297.2	307.0	316.9													
	76	218.7	228.1	238.0	247.8	257.6	267.5	277.3	287.1	297.0	306.8	316.6	326.5	336.3	346.2	356.0										
	85	227.9	237.7	247.6	257.4	267.3	277.1	286.9	296.8	306.6	316.4	326.3	336.1	345.9	355.8	365.6	375.5	385.3	395.1							
	95	237.5	247.4	257.2	267.0	276.9	286.7	296.6	306.4	316.2	326.1	335.9	345.7	355.6	365.4	375.2	385.1	394.9	404.8	414.6	424.4	434.3	444.1			
	105	247.2	257.0	266.8	276.7	286.5	296.3	306.2	316.0	325.9	335.7	345.5	355.4	365.2	375.0	384.9	394.7	404.5	414.4	424.2	434.1	443.9	453.7	463.6	473.4	483.2
	115	256.8	266.6	276.5	286.3	296.1	306.0	315.8	325.6	335.5	345.3	355.2	365.0	374.8	384.7	394.5	404.3	414.2	424.0	433.8	443.7	453.5	463.4	473.2	483.0	492.9
	125	266.4	276.3	286.1	295.9	305.8	315.6	325.4	335.3	345.1	354.9	364.8	374.6	384.5	394.3	404.1	414.0	423.8	433.6	443.5	453.3	463.1	473.0	482.8	492.7	502.5
	135	276.0	285.9	295.7	305.6	315.4	325.2	335.1	344.9	354.7	364.6	374.4	384.2	394.1	403.9	413.8	423.6	433.4	443.3	453.1	462.9	472.8	482.6	492.4	502.3	512.1
	144	285.7	295.5	305.3	315.2	325.0	334.9	344.7	354.5	364.4	374.2	384.0	393.9	403.7	413.5	423.4	433.2	443.1	452.9	462.7	472.6	482.4	492.2	502.1	511.9	521.7
	154	295.3	305.1	315.0	324.8	334.6	344.5	354.3	364.2	374.0	383.8	393.7	403.5	413.3	423.2	433.0	442.8	452.7	462.5	472.4	482.2	492.0	501.9	511.7	521.5	531.4
	164	304.9	314.8	324.6	334.4	344.3	354.1	363.9	373.8	383.6	393.5	403.3	413.1	423.0	432.8	442.6	452.5	462.3	472.1	482.0	491.8	501.7	511.5	521.3	531.2	541.0
	174	314.6	324.4	334.2	344.1	353.9	363.7	373.6	383.4	393.2	403.1	412.9	422.8	432.6	442.4	452.3	462.1	471.9	481.8	491.6	501.4	511.3	521.1	531.0	540.8	550.6
	184	324.2	334.0	343.9	353.7	363.5	373.3	383.2	393.0	402.9	412.7	422.5	432.4	442.2	452.1	461.9	471.7	481.6	491.4	501.2	511.1	520.9	530.7	540.6	550.4	560.3
	194	333.8	343.6	353.5	363.3	373.2	383.0	392.8	402.7	412.5	422.3	432.2	442.0	451.8	461.7	471.5	481.4	491.2	501.0	510.9	520.7	530.5	540.4	550.2	560.0	569.9
	203	343.4	353.3	363.1	372.9	382.8	392.6	402.5	412.3	422.1	432.0	441.8	451.6	461.5	471.3	481.1	491.0	500.8	510.7	520.5	530.3	540.2	550.0	559.8	569.7	579.5
	213	353.1	362.9	372.7	382.6	392.4	402.2	412.1	421.9	431.8	441.6	451.4														

Load capacities with luffing jib

Load capacity in 1000 lbs with 135 ft main boom [88/83/75/65°]

	Jib length 66 ft				Jib length 125 ft				Jib length 184 ft			
	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °
Radius [ft]												
29.86	337.1											
50	292.2	337.1			254.0							
55	258.8	334.2			234.8				169.1			
65	195.4	269.6			199.9	249.6			163.7			
75	144.6	207.4	337.1		169.4	207.9			150.7			
85		160.0	264.2		141.4	168.2			137.2	159.1		
90		134.4	232.8		130.1	155.2			128.0	153.3		
100			186.8		112.8	133.6	178.0		113.4	130.9		
105			160.0		105.1	125.7	166.9		107.7	120.7		
110				243.9	98.2	117.7	152.4		100.7	112.2		
125				175.2	79.5	97.2	126.0		83.4	94.2	115.3	
130				153.9	72.8	91.6	117.6		79.0	89.3	112.2	
135					65.9	85.0	109.1		75.1	84.9	104.7	
140						78.3	101.5	70.2	71.4	81.2	98.3	
145						71.5	95.0	127.2	69.2	77.6	93.5	
165							71.4	98.9	56.7	65.4	78.5	
175								89.4	50.4	59.8	70.3	84.0
185								78.9	44.0	53.0	64.4	77.2
190									40.7	49.6	61.2	73.1
205										35.2	52.7	65.6
220											44.1	58.8
245												45.8
	Jib length 243 ft				Jib length 302 ft				Jib length 361 ft			
	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °
Radius [ft]												
70	100.5											
80	98.9				53.7							
95	95.4				51.9				28.5			
100	94.3	97.1			51.3				28.3			
120	82.8	92.8			48.6	49.9			26.4			
135	75.3	79.7			45.7	48.4			24.9	25.4		
150	64.5	70.2	81.6		42.9	45.9			23.6	24.8		
175	50.7	56.7	67.0		37.0	41.4	43.5		20.8	22.6		
205	38.8	42.6	50.0		30.9	34.0	38.7		16.9	19.7	20.8	
210	37.3	40.6	48.0	58.5	30.1	33.1	37.2		16.1	18.8	20.6	
245	26.0	30.0	36.6	44.1	21.5	24.7	30.3	32.6	11.4	13.7	16.6	
250	24.0	28.3	35.2	42.6	20.4	23.6	28.9	32.4		13.1	15.9	
255		26.6	34.9	41.1	19.4	22.4	27.6	31.6		12.6	15.1	
260		24.9	33.3	39.8	18.5	21.4	26.4	30.6			14.5	
270			30.0	37.4	16.6	19.4	24.1	28.8			13.3	
280			26.7	35.2	14.7	17.6	22.0	27.2				13.3
290				33.0	12.8	15.6	20.1	24.9				12.7
300				30.1	10.8	13.6	18.3	22.8				11.5
305					9.8	12.6	17.3	21.9				
315						10.6	15.3	20.2				
335							11.3	16.6				
360								11.8				

Carbody counterweight: 116,000 lbs with 4.9 ft track pads
 Rear counterweight: 177,500/265,700/332,700 lbs
 Suspended counterweight: 7,200-510,300 lbs / radius 40.8-53.5 ft

TLT 14147893 / 358688. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cabin or manual. Otherwise we recommend you to plan your lifting job using Crane Planner 2.0.

Load capacities with luffing jib

Load capacity in 1000 lbs with 213 ft main boom [88/83/75/65°]

	Jib length 66 ft				Jib length 125 ft				Jib length 184 ft			
	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °
Radius [ft]	32.6	272.4										
	50	241.6			191.3							
	60	215.4	272.4		174.3				130.8			
	70	182.4	250.4		159.4				123.8			
	75	162.8	235.8		153.1	192.6			119.5			
	80	137.4	221.8		147.1	187.2			115.8			
	95		162.1	265.1	125.6	165.4			104.9	130.4		
	110			229.3	104.2	134.8			95.5	120.2		
	120			192.9	91.9	119.1	177.3		87.4	112.6		
	125			168.8	85.5	111.6	170.4		84.0	109.8		
	135				72.0	98.8	144.6		78.3	97.8		
	140					93.1	135.3		74.9	92.0		
	145			213.0		86.5	128.0		71.2	86.8	115.2	
	155			190.9		73.1	111.7		65.2	78.7	106.9	
	160			171.6			104.0		62.1	75.1	100.1	
	175						85.8	132.6	53.4	66.1	86.3	
	185						73.9	121.2	47.1	60.6	79.8	
	195							107.0	40.7	54.5	71.9	
	210							89.3		45.0	62.3	84.2
	220							78.8			56.7	76.7
	240										45.5	65.3
	275											48.8
	Jib length 243 ft				Jib length 302 ft				Jib length 361 ft			
	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °
Radius [ft]	70	82.1										
	85	81.0			44.6							
	100	76.1			43.3				22.8			
	110	72.7	80.9		42.3				22.0			
	130	70.2	79.1		40.6	42.2			20.6			
	145	66.0	74.8		38.8	41.4			19.8	20.7		
	170	54.4	65.9	75.3	35.8	39.2			17.8	19.8		
	195	44.1	53.0	67.5	30.9	35.3	37.7		16.3	18.1		
	225	35.2	41.5	54.0	25.6	30.6	35.6		11.9	15.3	17.0	
	245	28.1	35.2	44.5	21.4	26.3	32.2		9.7	12.7	16.1	
	250	26.3	34.6	42.4	20.5	25.2	31.3		9.3	12.2	15.7	
	265		29.2	37.5	18.0	22.1	29.1			10.7	14.3	
	270		27.3	35.9	17.2	21.1	27.9				13.7	
	275			35.2	16.2	20.2	26.8	29.9			13.1	
	295			29.5	12.5	16.8	22.7	28.7			11.1	
	300			27.8	11.5	15.8	21.8	27.9				
	310			36.1	9.5	13.9	20.2	26.8				
	315			35.2		13.0	19.4	26.0				11.0
	325			33.2		11.0	17.6	24.0				10.4
	335			30.3			15.7	22.3				9.4
	355						11.9	19.3				
	390							13.0				

Carbody counterweight: 116,000 lbs with 4.9 ft track pads
 Rear counterweight: 177,500/265,700/332,700 lbs
 Suspended counterweight: 7,200-510,300 lbs / radius 40.8-53.5 ft

TLT 14147893 / 358688. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cabin or manual. Otherwise we recommend you to plan your lifting job using Crane Planner 2.0.

Load capacities with luffing jib

Load capacity in 1000 lbs with 292 ft main boom [88/83/75/65°]

	Jib length 85 ft				Jib length 125 ft				Jib length 184 ft			
	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °
39.44	160.9											
50	147.2				122.7							
60	133.4				113.1				84.5			
75	118.2	149.9			100.4				78.2			
85	109.0	135.0			93.7	116.8			72.9			
100	98.8	119.9			85.0	104.4			70.2			
105		115.1			82.0	101.0			70.2	80.7		
115		107.1			76.4	93.6			70.2	75.8		
125		100.2	131.3		71.9	87.8			69.2	70.2		
130			125.6		70.2	84.8			67.5	70.2		
140			115.7		65.1	79.2	70.2		64.7	70.2		
165			96.9			70.2	87.2		56.6	70.2	70.2	
185				122.8			75.9		48.0	63.0	70.2	
195				116.6			71.2		42.5	59.9	70.2	
205				108.8			70.2			54.4	70.2	
210				105.4				94.6		51.3	69.8	
215				101.9				93.1		48.2	68.2	
220								91.2		45.0	66.8	
245								78.3			57.7	65.9
250								75.9			54.7	65.3
260											48.5	63.8
310											48.4	
	Jib length 243 ft				Jib length 302 ft				Jib length 361 ft			
	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °
75	53.5											
90	49.8				32.4							
100	46.5				30.3				15.6			
110	44.1				28.4				15.0			
120	40.9	51.7			26.4				13.5			
140	36.3	46.9			22.8	31.0			10.6			
155	35.2	42.3			20.2	28.5			8.9	14.2		
165	35.2	40.0			18.8	26.8			7.3	13.9		
190	35.2	35.2	44.3		14.4	22.2				10.8		
220	32.1	35.2	39.3		10.5	16.9	24.8			6.9		
245	27.3	35.2	35.2		7.5	13.4	22.8				9.9	
250	26.3	35.2	35.2		7.0	12.7	22.1				9.8	
255	25.2	34.3	35.2			12.0	21.0				9.8	
260		32.9	35.2			11.3	20.0				9.5	
275		28.6	35.2	38.6		9.4	17.4					
280		27.2	35.2	38.5		8.9	16.7					
295			35.2	38.3		7.4	14.4					
310			33.4	36.6			12.1	20.5				
320			29.9	35.2			10.8	20.4				
355				33.8			6.9	19.1				
365				31.3				18.0				
425								9.8				

Carbody counterweight: 116,000 lbs with 4.9 ft track pads
 Rear counterweight: 177,500/265,700/332,700 lbs
 Suspended counterweight: 7,200-510,300 lbs / radius 40.8-53.5 ft

TLT 14147893 / 358688. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cabin or manual. Otherwise we recommend you to plan your lifting job using Crane Planner 2.0.

Load capacities with luffing jib

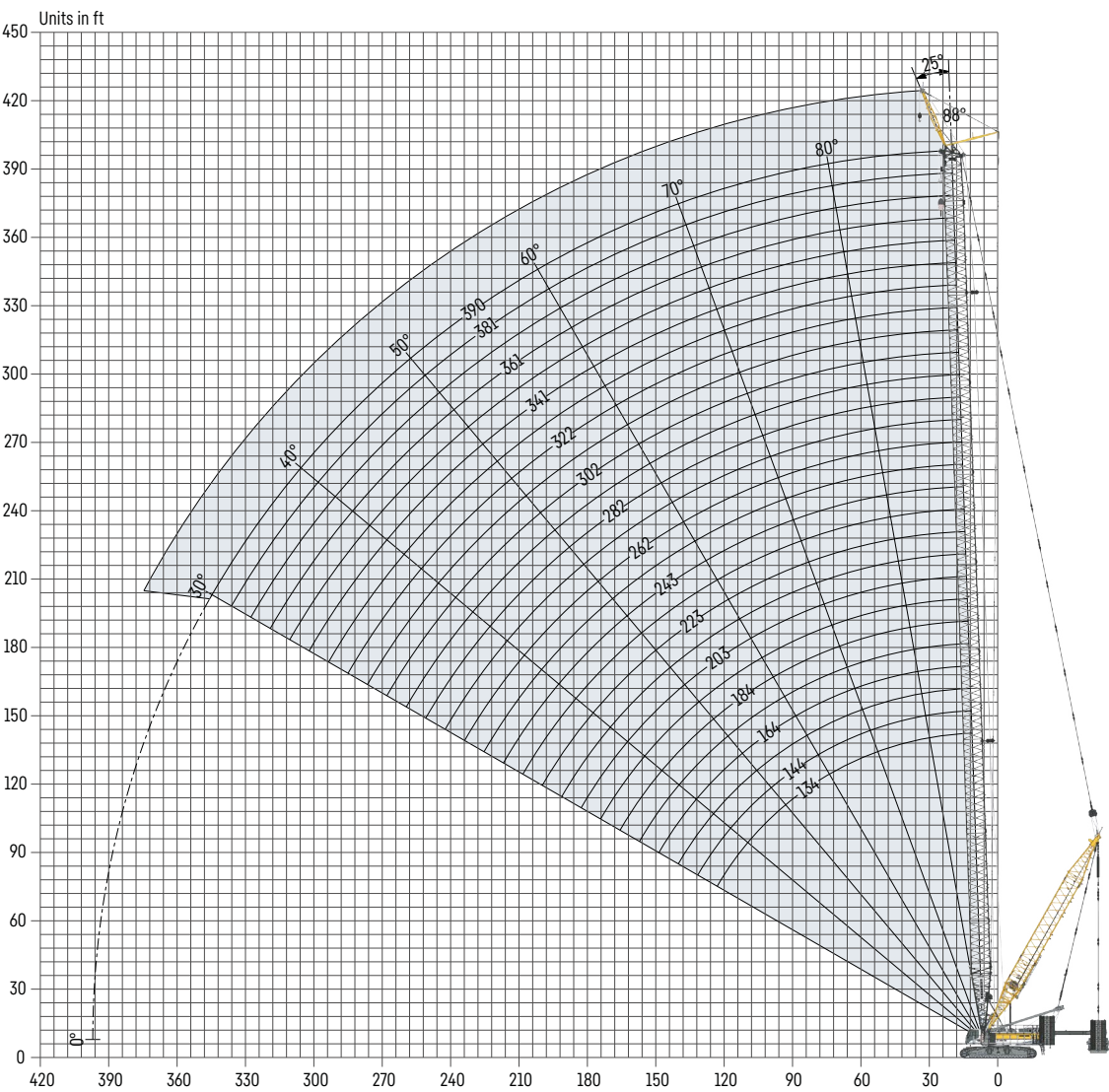
Load capacity in 1000 lbs with 371 ft main boom [88/83/75/65°]

	Jib length 105 ft				Jib length 125 ft				Jib length 144 ft			
	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °
Radius [ft]												
46.28	84.0											
55	79.5				70.9				62.6			
90	70.2	76.8			67.1				49.7			
95	70.2	74.2			65.2	70.2			48.2			
100	69.8	70.6			63.6	69.3			46.5	57.3		
110	66.6	70.2			60.4	66.0			43.8	54.0		
120	63.9	69.3			57.3	63.0			41.4	50.4		
125	35.2	67.8			56.1	61.4			40.0	49.1		
140		63.6			52.9	57.5			36.6	44.2		
155		59.9	70.2			54.0			35.2	40.4		
160			69.1			53.1			35.2	39.1		
165			67.6			52.1	60.8			38.0		
175			64.9			40.1	58.7			36.1	49.8	
195			61.1				54.6			35.2	43.6	
205			59.0				53.0				41.1	
225							49.6				36.7	
230				70.2							35.7	
245				70.2				64.2			35.2	
255				70.2				63.1				49.9
265				67.4				61.2				49.6
285								57.6				46.0
305												41.8
	Jib length 164 ft				Jib length 194 ft				Jib length 223 ft			
	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °	88 °	83 °	75 °	65 °
Radius [ft]												
60	53.3											
65	51.6				42.7							
75	47.8				40.1				33.3			
105	39.4	49.3			35.2				26.5			
115	36.8	46.1			35.2	38.6			24.4			
125	35.2	42.8			35.2	35.9			22.8	30.3		
180	35.2	35.2	42.9		28.4	31.6			14.4	19.5		
190		35.2	40.2		27.3	30.3	33.5		13.2	18.2		
205		35.0	36.2		25.8	28.6	33.4		11.8	16.0	26.0	
210		34.4	35.3		25.2	28.1	32.8		11.3	15.3	25.0	
215		33.7	35.2			27.6	32.1		10.9	14.6	23.8	
235			35.2			25.7	30.1		9.2	12.3	20.2	
240			35.2			25.2	29.5			11.8	19.5	
265			33.8	42.8			27.3			9.2	15.7	
270				42.8			26.9			8.7	15.0	
280				42.3			26.1	32.8			13.6	
290				40.6			25.3	35.2			12.6	
300				39.2				35.2			11.5	25.3
320				35.4				35.2			9.5	25.0
325				35.2				35.1				24.3
355								34.2				20.7
380												17.8

Carbody counterweight: 116,000 lbs with 4.9 ft track pads
Rear counterweight: 177,500/265,700/332,700 lbs
Suspended counterweight: 7,200-510,300 lbs / radius 40.8-53.5 ft

TLT 14147893 / 358688. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cabin or manual. Otherwise we recommend you to plan your lifting job using Crane Planner 2.0.

Fixed jib 1507.20 (26 ft)



Maximum load capacity in 1000 lbs with 26 ft jib length

Main boom [ft]																										
135	144	154	164	174	184	194	203	213	223	233	243	253	263	272	282	292	302	312	322	331	341	351	361	371	381	390
167.5	177.3	187.0	196.8	206.6	216.4	226.2	236.0	245.8	255.7	265.5	275.3	285.1	294.9	304.7	314.5	324.4	334.2	344.0	353.8	363.6	373.5	383.3	393.1	402.9	412.8	422.6

Maximum pulley height in ft with 26 ft jib length

Main boom [ft]																										
135	144	154	164	174	184	194	203	213	223	233	243	253	263	272	282	292	302	312	322	331	341	351	361	371	381	390
257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	246.0	230.4	217.2	203.6	193.3	182.1	169.0	159.1	151.3	142.3	134.2	126.5	120.4	113.5	107.4

Load capacities with fixed jib

Load capacity in 1000 lbs – 135 ft main boom

Radius [ft]	Jib length 26 ft
29.72	257.9
40	257.9
50	244.5
60	229.6
70	215.0
80	202.2
90	190.8
100	182.2
110	174.1
120	167.3
130	162.6
150	156.2

Load capacity in 1000 lbs – 184 ft main boom

Radius [ft]	Jib length 26 ft
32.65	257.9
40	257.9
50	254.5
60	241.5
70	230.0
80	217.6
100	199.2
120	184.9
140	173.4
160	164.7
180	160.3
195	157.5

Load capacity in 1000 lbs – 233 ft main boom

Radius [ft]	Jib length 26 ft
35.41	257.9
40	257.9
50	255.7
60	247.4
80	227.1
100	209.5
120	195.9
140	184.6
160	174.4
180	164.9
200	155.0
235	125.1

Load capacity in 1000 lbs – 282 ft main boom

Radius [ft]	Jib length 26 ft
38.1	203.6
80	203.6
100	201.1
120	198.0
140	186.7
160	175.3
180	163.0
200	144.3
220	129.1
240	114.4
260	98.1
280	83.9

Load capacity in 1000 lbs – 331 ft main boom

Radius [ft]	Jib length 26 ft
40.75	151.3
100	151.3
140	151.3
160	147.2
180	143.7
200	140.4
220	123.4
240	108.8
260	97.0
280	86.3
300	76.1
320	67.1

Load capacity in 1000 lbs – 390 ft main boom

Radius [ft]	Jib length 26 ft
43.91	107.4
70	107.4
80	107.2
100	106.3
120	104.2
140	100.7
180	98.1
220	98.1
260	83.5
300	69.4
340	53.0
375	39.6

Carbody counterweight: 116,000 lbs with 4.9 ft track pads
 Rear counterweight: 177,500/265,700/332,700 lbs
 Suspended counterweight: 7,200-510,300 lbs / radius 40.8-53.5 ft

TLT 14147893/358688. Above load charts are for reference only. For actual lift duty please refer to load chart in operator's cabin or manual. Otherwise we recommend you to plan your lifting job using Crane Planner 2.0.

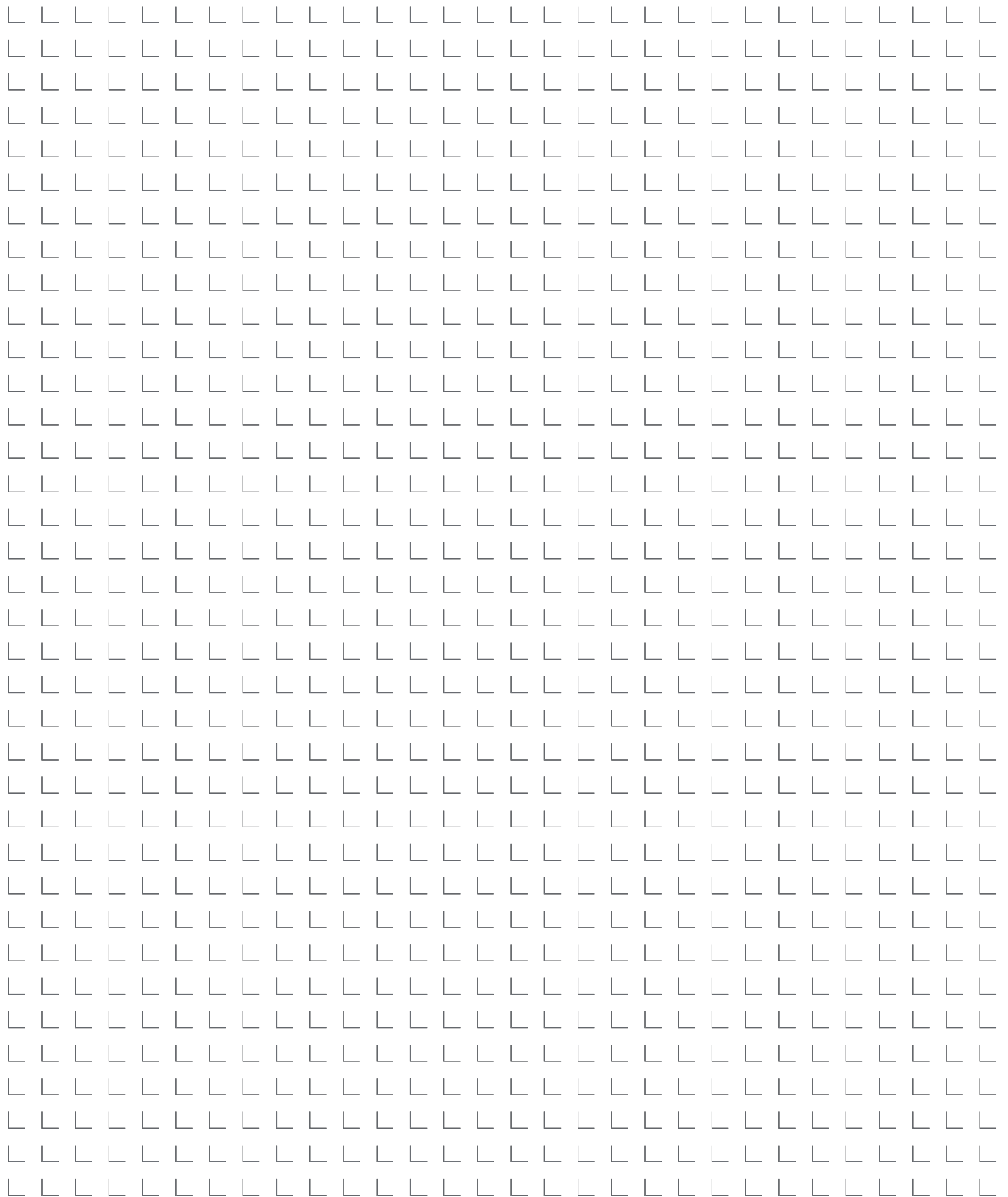


Crane Planner 2.0



██████████

A grid of 20 rows and 30 columns of small L-shaped icons, totaling 600 icons. Each icon is a small L-shape, resembling a corner bracket, with a horizontal line on the left and a vertical line on the top. The icons are arranged in a uniform grid pattern.





Download datasheet



Please contact us.

Liebherr-Werk Nenzing GmbH · Dr. Hans Liebherr Str. 1 · 6710 Nenzing, Austria
Phone +43 50809 41-473 · crawler.crane@liebherr.com · www.liebherr.com
facebook.com/LiebherrConstruction

Liebherr USA, Co. · 7075 Bennington Street · Houston, TX 77028-5812
Phone (713) 636-4050 · crawler.cranes.usa@liebherr.com · www.liebherr.com
facebook.com/LiebherrConstruction