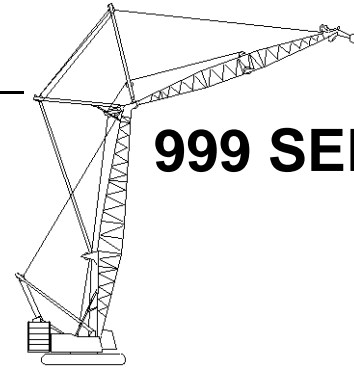




# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

**Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating**

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

**LIFTING CAPACITIES:** Lifting capacities for various boom lengths, boom angles, luffing jib lengths and intermediate fall operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (\*). Capacities indicated by (b) require 1 180 kg minimum block weight.

Consult Luffing Jib Raising Procedure chart **No. 8422-A** for Maximum Number of Lower Boom Point Sheaves (Layout Jack-Knife Method table, column A).

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and intermediate fall is considered part of intermediate fall load. 1 770 kg suspended beneath luffing jib point sheaves has been included in capacity determination. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

**OPERATING CONDITIONS:** Machine to operate on a firm uniformly supporting surface with gantry up and bearing turntable level within a tolerance of 13 mm in 3m and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to luffing jib assembly **No. A01031**, Wire Rope Specification chart **No. 8357-A** and Luffing Jib Raising Procedure chart **No. 8422-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

**MACHINE TRAVEL:** Machine to travel on a firm, level and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8360-A**.

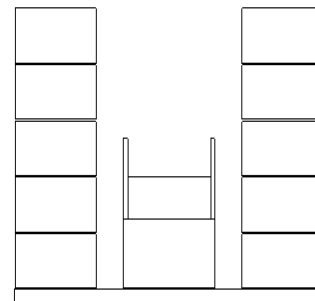
**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts. Luffing jib angle is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

**INTERMEDIATE FALL ELEVATION:** Intermediate fall elevation is vertical distance from ground level to centerline of intermediate fall shaft.

**MACHINE EQUIPMENT:** Machine equipped with 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps, 9 part luffing jib hoist reeving, luffing jib straps, two 38 mm luffing jib backstay pendants, 99 610 kg crane counterweight, two 9 980 kg and two 8 165 kg carbody counterweights.

Consult chart **No. 8419-AM** for luffing jib capacities. Consult chart **No. 8364-AM** for lifting off lower boom point with luffing jib attached. Consult chart **No. 8370-AM** for intermediate fall capacities with fixed jib attached.

Fixed jib No. 134 must be removed before use of this chart.

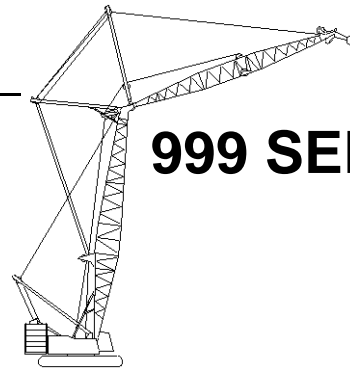


99 610 kg Crane Counterweight  
10 Side Boxes - 1 Center Box

**Boom Catwalks Deduct**  
Deduct 150 kg from capacities when boom catwalks are attached.



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360 Degree Rating

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### 24.4m (80 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

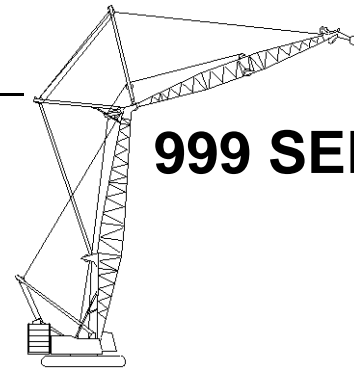
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
10.7	56.2	36.5	16 400*	61.1	37.0	19 200* <sup>b</sup>													10.7
11.0	54.2	36.2	15 700*	59.2	36.8	18 200* <sup>b</sup>													11.0
12.0	47.9	35.3	13 400*	53.3	36.1	15 300*													12.0
13.0	40.7	34.2	11 500*	46.8	35.1	12 900*	54.9	36.1	16 100*										13.0
14.0				39.5	33.9	11 300*	48.6	35.2	13 500*	56.5	36.1	16 700*							14.0
15.0				30.5	32.3	9 900*	41.5	34.1	11 700*	50.3	35.3	14 200*							15.0
16.0							33.1	32.7	10 300*	43.5	34.2	12 100*	56.8	35.6	17 100* <sup>b</sup>				16.0
17.0										35.5	32.9	10 600*	50.7	34.8	14 300*				17.0
18.0										25.1	30.9	9 300*	43.9	33.8	12 300*				18.0
19.0													36.0	32.4	10 700*	50.8	34.1	14 600*	19.0
20.0																44.0	33.1	12 400*	20.0
21.0																36.1	31.8	10 800*	21.0

### 24.4m (80 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
9.1	64.8	37.5	18 500* <sup>b</sup>																9.1
10.0	60.1	37.0	15 800*																10.0
11.0	54.2	36.2	12 900*	59.2	36.8	15 300*	66.2	37.4	20 100* <sup>b</sup>										11.0
12.0	47.9	35.3	11 000*	53.3	36.1	12 700*	60.7	36.8	16 100*										12.0
13.0	40.7	34.2	9 500*	46.8	35.1	10 700*	54.9	36.1	13 200*	62.2	36.8	17 200*							13.0
14.0				39.5	33.9	9 300*	48.6	35.2	11 300*	56.5	36.1	13 900*							14.0
15.0				30.5	32.3	8 100*	41.5	34.1	9 700*	50.3	35.3	11 700*							15.0
16.0							33.1	32.7	8 400*	43.5	34.2	10 100*	56.8	35.6	14 300*				16.0
17.0										35.5	32.9	8 800*	50.7	34.8	11 900*				17.0
18.0										25.1	30.9	7 600*	43.9	33.8	10 200*				18.0
19.0													36.0	32.4	8 800*	50.8	34.1	12 100*	19.0
20.0																44.0	33.1	10 300*	20.0
21.0																36.1	31.8	8 900*	21.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 24.4m (80 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

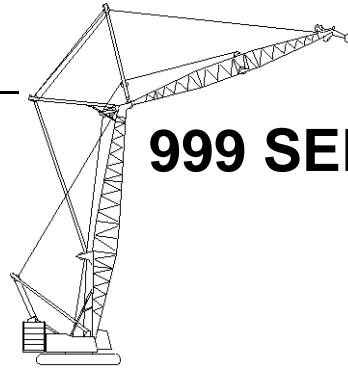
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	64.8	37.5	16 500*																9.1
10.0	60.1	37.0	14 000*																10.0
11.0	54.2	36.2	11 400*	59.2	36.8	13 500*	66.2	37.4	17 800*										11.0
12.0	47.9	35.3	9 600*	53.3	36.1	11 200*	60.7	36.8	14 200*										12.0
13.0	40.7	34.2	8 300*	46.8	35.1	9 400*	54.9	36.1	11 600*	62.2	36.8	15 200*							13.0
14.0				39.5	33.9	8 100*	48.6	35.2	9 900*	56.5	36.1	12 200*							14.0
15.0				30.5	32.3	7 000*	41.5	34.1	8 400*	50.3	35.3	10 300*							15.0
16.0							33.1	32.7	7 300*	43.5	34.2	8 800*	56.8	35.6	12 600*				16.0
17.0										35.5	32.9	7 600*	50.7	34.8	10 400*				17.0
18.0										25.1	30.9	6 600*	43.9	33.8	8 900*				18.0
19.0													36.0	32.4	7 700*	50.8	34.1	10 600*	19.0
20.0																44.0	33.1	8 900*	20.0
21.0																36.1	31.8	7 700*	21.0

### 24.4m (80 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	70.2	40.8	23 700*																9.1
10.0	66.7	40.5	20 200*																10.0
11.0	62.4	39.9	16 500*	66.0	40.3	19 500*													11.0
12.0	57.9	39.3	14 000*	61.7	39.8	16 200*													12.0
13.0	53.2	38.5	12 100*	57.2	39.1	13 700*	62.9	39.8	17 100*										13.0
14.0	48.1	37.7	10 600*	52.4	38.4	11 800*	58.4	39.1	14 300*	64.0	39.7	17 800*							14.0
15.0	42.5	36.6	9 300*	47.3	37.4	10 400*	53.7	38.4	12 300*	59.6	39.1	15 000*							15.0
16.0	36.2	35.2	8 200*	41.6	36.3	9 100*	48.7	37.5	10 700*	55.0	38.4	12 800*							16.0
17.0				35.2	34.9	8 100*	43.2	36.5	9 500*	50.0	37.6	11 100*	59.9	38.6	15 200*				17.0
18.0				27.3	33.1	7 200*	37.0	35.2	8 400*	44.7	36.5	9 800*	55.3	37.9	13 100*				18.0
19.0							29.6	33.5	7 500*	38.7	35.3	8 600*	50.4	37.1	11 300*				19.0
20.0										31.7	33.8	7 700*	45.0	36.1	9 900*	55.3	37.2	13 100*	20.0
21.0										22.6	31.6	6 800*	39.1	34.9	8 700*	50.4	36.4	11 400*	21.0
22.0													32.2	33.4	7 700*	45.1	35.4	9 900*	22.0
23.0																39.2	34.2	8 800*	23.0
24.0																32.3	32.7	7 800*	24.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 24.4m (80 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

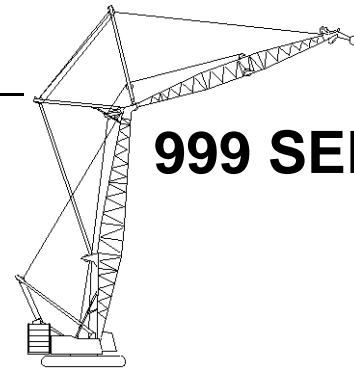
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
7.6	72.7	38.2	22 800*b																7.6
8.0	70.8	38.0	21 000*b																8.0
9.0	65.6	37.6	16 100*																9.0
10.0	60.1	37.0	12 700*	64.8	37.4	15 800*													10.0
11.0	54.2	36.2	10 700*	59.2	36.8	12 500*	66.2	37.4	16 600*										11.0
12.0	47.9	35.3	9 100*	53.3	36.1	10 400*	60.7	36.8	13 400*										12.0
13.0	40.7	34.2	7 900*	46.8	35.1	8 900*	54.9	36.1	10 900*	62.2	36.8	14 200*							13.0
14.0				39.5	33.9	7 700*	48.6	35.2	9 300*	56.5	36.1	11 500*							14.0
15.0				30.5	32.3	6 700*	41.5	34.1	8 000*	50.3	35.3	9 700*							15.0
16.0							33.1	32.7	7 000*	43.5	34.2	8 300*	56.8	35.6	11 900*				16.0
17.0										35.5	32.9	7 200*	50.7	34.8	9 800*				17.0
18.0										25.1	30.9	6 300*	43.9	33.8	8 400*				18.0
19.0													36.0	32.4	7 300*	50.8	34.1	10 000*	19.0
20.0																44.0	33.1	8 500*	20.0
21.0																36.1	31.8	7 300*	21.0

## 24.4m (80 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
9.1	70.2	40.8	21 400*	73.7	41.1	26 300*													9.1
10.0	66.7	40.5	18 200*	70.2	40.8	21 900*													10.0
11.0	62.4	39.9	14 800*	66.0	40.3	17 200*													11.0
12.0	57.9	39.3	12 600*	61.7	39.8	14 400*													12.0
13.0	53.2	38.5	10 800*	57.2	39.1	12 300*	62.9	39.8	15 400*										13.0
14.0	48.1	37.7	9 500*	52.4	38.4	10 700*	58.4	39.1	12 800*	64.0	39.7	16 100*							14.0
15.0	42.5	36.6	8 300*	47.3	37.4	9 300*	53.7	38.4	11 000*	59.6	39.1	13 500*							15.0
16.0	36.2	35.2	7 400*	41.6	36.3	8 200*	48.7	37.5	9 600*	55.0	38.4	11 500*							16.0
17.0				35.2	34.9	7 300*	43.2	36.5	8 500*	50.0	37.6	10 000*	59.9	38.6	13 700*				17.0
18.0				27.3	33.1	6 500*	37.0	35.2	7 500*	44.7	36.5	8 800*	55.3	37.9	11 800*				18.0
19.0							29.6	33.5	6 700*	38.7	35.3	7 700*	50.4	37.1	10 100*				19.0
20.0										31.7	33.8	6 900*	45.0	36.1	8 900*	55.3	37.2	11 700*	20.0
21.0										22.6	31.6	6 100*	39.1	34.9	7 800*	50.4	36.4	10 200*	21.0
22.0													32.2	33.4	6 900*	45.1	35.4	8 900*	22.0
23.0																39.2	34.2	7 900*	23.0
24.0																32.3	32.7	7 000*	24.0



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Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
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### 24.4m (80 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

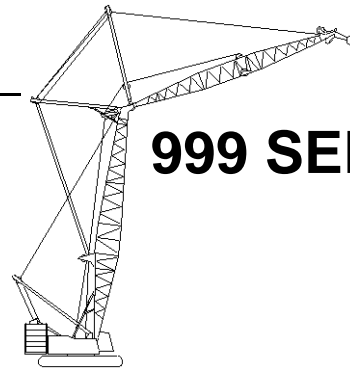
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	73.7	44.1	26 700*																9.1
10.0	70.8	43.8	22 900*																10.0
11.0	67.4	43.4	18 700*	70.3	43.7	22 200*													11.0
12.0	63.9	42.9	15 900*	66.9	43.2	18 500*													12.0
13.0	60.2	42.3	13 700*	63.3	42.7	15 600*	67.8	43.2	19 500*										13.0
14.0	56.4	41.6	12 000*	59.7	42.1	13 500*	64.3	42.7	16 300*										14.0
15.0	52.5	40.8	10 600*	55.9	41.4	11 900*	60.7	42.1	14 000*										15.0
16.0	48.3	40.0	9 400*	51.8	40.6	10 500*	56.9	41.5	12 300*	61.6	42.1	14 800*							16.0
17.0	43.7	38.9	8 400*	47.6	39.7	9 300*	52.9	40.7	10 800*	57.9	41.4	12 700*							17.0
18.0	38.7	37.7	7 600*	43.0	38.7	8 300*	48.8	39.8	9 600*	54.0	40.7	11 200*							18.0
19.0	33.1	36.2	6 900*	37.9	37.4	7 500*	44.3	38.8	8 600*	49.9	39.9	9 900*	58.1	40.9	13 000*				19.0
20.0				32.1	35.9	6 800*	39.3	37.6	7 700*	45.4	38.9	8 900*	54.2	40.2	11 300*				20.0
21.0				25.1	33.9	6 100*	33.8	36.2	6 900*	40.6	37.7	7 900*	50.1	39.4	10 000*				21.0
22.0							27.1	34.3	6 300*	35.3	36.3	7 100*	45.7	38.4	8 900*	54.3	39.5	11 400*	22.0
23.0										29.0	34.6	6 500*	41.0	37.3	8 000*	50.2	38.7	10 100*	23.0
24.0										20.9	32.2	5 800*	35.6	35.9	7 200*	45.8	37.7	9 000*	24.0
25.0													29.4	34.2	6 600*	41.0	36.6	8 100*	25.0
26.0																35.7	35.2	7 300*	26.0
27.0																29.5	33.5	6 600*	27.0

### 24.4m (80 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	71.8	46.8	25 900*																10.7
11.0	70.8	46.7	24 700*																11.0
12.0	67.9	46.2	20 900*																12.0
13.0	64.9	45.8	17 900*	67.5	46.1	20 600*													13.0
14.0	61.8	45.2	15 800*	64.5	45.6	17 700*	68.2	46.1	21 400*										14.0
15.0	58.7	44.6	13 900*	61.4	45.1	15 500*	65.3	45.6	18 500*										15.0
16.0	55.4	43.9	12 400*	58.2	44.5	13 700*	62.2	45.1	16 100*										16.0
17.0	52.0	43.1	11 100*	54.9	43.7	12 300*	59.1	44.5	14 200*	63.0	45.0	16 700*							17.0
18.0	48.4	42.3	10 000*	51.4	42.9	11 000*	55.8	43.8	12 600*	59.9	44.4	14 800*							18.0
19.0	44.5	41.2	9 100*	47.8	42.0	9 900*	52.4	43.0	11 300*	56.6	43.7	13 000*							19.0
20.0	40.4	40.1	8 300*	43.9	41.0	9 000*	48.8	42.1	10 200*	53.3	43.0	11 700*	60.1	43.9	14 900*				20.0
21.0	35.8	38.7	7 500*	39.7	39.8	8 200*	45.0	41.1	9 300*	49.7	42.2	10 500*	56.8	43.3	13 200*				21.0
22.0	30.7	37.1	6 900*	35.1	38.4	7 500*	40.9	40.0	8 400*	46.0	41.2	9 500*	53.5	42.5	11 800*				22.0
23.0				29.8	36.7	6 800*	36.4	38.7	7 700*	42.0	40.1	8 600*	50.0	41.7	10 600*	56.9	42.6	13 300*	23.0
24.0				23.4	34.6	6 200*	31.3	37.1	7 000*	37.6	38.8	7 900*	46.2	40.7	9 600*	53.5	41.8	11 900*	24.0
25.0							25.3	35.1	6 400*	32.7	37.3	7 200*	42.2	39.6	8 700*	50.0	41.0	10 700*	25.0
26.0										26.9	35.4	6 600*	37.9	38.4	8 000*	46.3	40.0	9 700*	26.0
27.0										19.6	32.9	6 000*	33.0	36.9	7 300*	42.3	39.0	8 800*	27.0
28.0													27.3	35.0	6 600*	37.9	37.7	8 000*	28.0
29.0																33.1	36.2	7 300*	29.0
30.0																27.4	34.4	6 700*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

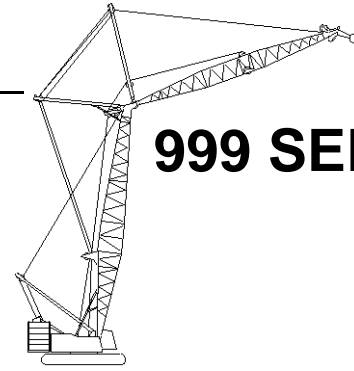
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 24.4m (80 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.2	50.0	26 700*																10.7
11.0	73.3	49.9	26 200*																11.0
12.0	70.8	49.5	24 700*																12.0
13.0	68.3	49.1	22 300*	70.4	49.4	24 300*													13.0
14.0	65.7	48.7	19 200*	67.9	49.0	21 400*													14.0
15.0	63.0	48.2	17 000*	65.3	48.5	18 900*													15.0
16.0	60.3	47.6	15 200*	62.6	48.0	16 700*	66.0	48.5	19 600*										16.0
17.0	57.5	46.9	13 700*	59.9	47.4	15 000*	63.3	48.0	17 300*	66.7	48.4	20 200*							17.0
18.0	54.6	46.2	12 400*	57.1	46.8	13 500*	60.6	47.4	15 500*	64.0	47.9	17 900*							18.0
19.0	51.6	45.4	11 300*	54.2	46.1	12 300*	57.8	46.8	13 900*	61.3	47.4	15 900*							19.0
20.0	48.4	44.6	10 300*	51.1	45.2	11 100*	54.9	46.1	12 600*	58.6	46.7	14 400*							20.0
21.0	45.1	43.6	9 400*	48.0	44.3	10 200*	52.0	45.3	11 400*	55.7	46.1	13 000*							21.0
22.0	41.6	42.4	8 700*	44.6	43.3	9 300*	48.8	44.4	10 500*	52.7	45.3	11 800*	58.7	46.3	14 600*				22.0
23.0	37.8	41.2	8 000*	41.0	42.2	8 600*	45.5	43.5	9 600*	49.6	44.4	10 700*	55.9	45.6	13 100*				23.0
24.0	33.5	39.7	7 300*	37.1	40.9	7 900*	42.0	42.4	8 800*	46.4	43.5	9 800*	52.9	44.8	11 900*				24.0
25.0	28.8	37.9	6 800*	32.9	39.4	7 300*	38.2	41.1	8 100*	42.9	42.4	9 000*	49.8	44.0	10 900*	55.9	44.9	13 200*	25.0
26.0				28.0	37.6	6 700*	34.1	39.7	7 500*	39.2	41.2	8 300*	46.6	43.0	9 900*	53.0	44.1	12 000*	26.0
27.0				22.1	35.3	6 200*	29.4	37.9	6 900*	35.2	39.8	7 700*	43.2	42.0	9 100*	49.9	43.3	10 900*	27.0
28.0							23.8	35.8	6 400*	30.6	38.2	7 100*	39.5	40.8	8 400*	46.6	42.4	10 000*	28.0
29.0										25.3	36.2	6 500*	35.4	39.4	7 700*	43.2	41.3	9 200*	29.0
30.0										18.6	33.5	6 000*	30.9	37.8	7 100*	39.5	40.1	8 400*	30.0
31.0													25.7	35.8	6 600*	35.5	38.7	7 800*	31.0
32.0													19.1	33.2	6 100*	31.0	37.1	7 200*	32.0
33.0																25.8	35.1	6 700*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

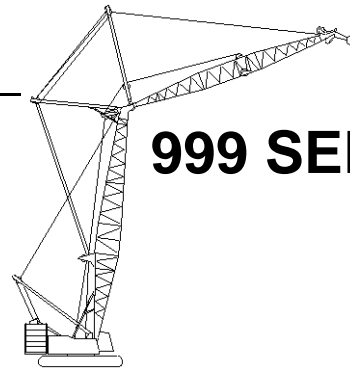
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 24.4m (80 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	76.0	53.2	26 700*																10.7
11.0	75.2	53.1	26 700*																11.0
12.0	73.1	52.8	26 700*																12.0
13.0	70.8	52.4	25 900*																13.0
14.0	68.6	52.0	24 600*	70.5	52.3	26 100*													14.0
15.0	66.3	51.6	22 000*	68.2	51.9	23 900*													15.0
16.0	63.9	51.1	19 600*	65.9	51.4	21 600*	68.8	51.8	24 800*										16.0
17.0	61.5	50.5	17 700*	63.6	50.9	19 300*	66.5	51.4	22 200*										17.0
18.0	59.1	49.9	16 000*	61.2	50.4	17 400*	64.2	50.9	19 900*										18.0
19.0	56.6	49.3	14 600*	58.7	49.8	15 800*	61.8	50.4	18 000*	64.8	50.8	20 600*							19.0
20.0	54.0	48.5	13 400*	56.2	49.1	14 500*	59.4	49.8	16 300*	62.4	50.3	18 500*							20.0
21.0	51.3	47.7	12 300*	53.6	48.4	13 300*	56.9	49.1	14 900*	60.0	49.7	16 800*							21.0
22.0	48.5	46.9	11 300*	50.9	47.5	12 200*	54.3	48.4	13 600*	57.5	49.1	15 300*							22.0
23.0	45.6	45.9	10 400*	48.1	46.6	11 200*	51.6	47.6	12 500*	55.0	48.4	14 000*	60.2	49.2	16 900*				23.0
24.0	42.5	44.8	9 700*	45.1	45.7	10 400*	48.8	46.7	11 500*	52.3	47.6	12 800*	57.7	48.6	15 500*				24.0
25.0	39.2	43.6	9 000*	42.0	44.6	9 600*	45.9	45.8	10 700*	49.6	46.7	11 800*	55.1	47.9	14 100*				25.0
26.0	35.6	42.2	8 300*	38.7	43.3	8 900*	42.8	44.7	9 900*	46.7	45.8	10 900*	52.5	47.1	13 000*	57.7	47.9	15 500*	26.0
27.0	31.7	40.6	7 700*	35.0	41.9	8 300*	39.6	43.5	9 100*	43.7	44.8	10 100*	49.7	46.3	12 000*	55.2	47.2	14 200*	27.0
28.0	27.2	38.8	7 200*	31.1	40.3	7 700*	36.0	42.2	8 500*	40.4	43.6	9 400*	46.9	45.4	11 000*	52.5	46.4	13 100*	28.0
29.0				26.5	38.4	7 100*	32.2	40.6	7 900*	37.0	42.3	8 700*	43.9	44.3	10 200*	49.8	45.6	12 000*	29.0
30.0				21.0	35.9	6 700*	27.8	38.8	7 300*	33.2	40.8	8 100*	40.7	43.2	9 500*	46.9	44.7	11 100*	30.0
31.0							22.6	36.5	6 800*	29.0	39.0	7 500*	37.2	41.9	8 800*	43.9	43.6	10 300*	31.0
32.0							15.7	33.4	6 300*	24.0	36.9	7 000*	33.5	40.4	8 200*	40.7	42.5	9 500*	32.0
33.0										17.8	34.1	6 500*	29.3	38.6	7 600*	37.2	41.2	8 800*	33.0
34.0													24.4	36.5	7 100*	33.5	39.7	8 200*	34.0
35.0													18.2	33.8	6 600*	29.3	38.0	7 700*	35.0
36.0																24.4	35.9	7 100*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

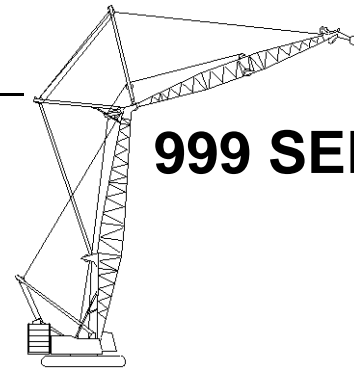
### 24.4m (80 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.2	50.0	26 700*																10.7
11.0	73.3	49.9	25 800*																11.0
12.0	70.8	49.5	23 100*																12.0
13.0	68.3	49.1	20 300*	70.4	49.4	23 000*													13.0
14.0	65.7	48.7	17 700*	67.9	49.0	19 800*													14.0
15.0	63.0	48.2	15 700*	65.3	48.5	17 400*													15.0
16.0	60.3	47.6	14 000*	62.6	48.0	15 500*	66.0	48.5	18 200*										16.0
17.0	57.5	46.9	12 700*	59.9	47.4	13 900*	63.3	48.0	16 000*	66.7	48.4	18 700*							17.0
18.0	54.6	46.2	11 400*	57.1	46.8	12 500*	60.6	47.4	14 300*	64.0	47.9	16 600*							18.0
19.0	51.6	45.4	10 400*	54.2	46.1	11 300*	57.8	46.8	12 900*	61.3	47.4	14 700*							19.0
20.0	48.4	44.6	9 500*	51.1	45.2	10 300*	54.9	46.1	11 700*	58.6	46.7	13 200*							20.0
21.0	45.1	43.6	8 700*	48.0	44.3	9 400*	52.0	45.3	10 600*	55.7	46.1	12 000*							21.0
22.0	41.6	42.4	8 000*	44.6	43.3	8 600*	48.8	44.4	9 600*	52.7	45.3	10 900*	58.7	46.3	13 500*				22.0
23.0	37.8	41.2	7 300*	41.0	42.2	7 900*	45.5	43.5	8 800*	49.6	44.4	9 900*	55.9	45.6	12 100*				23.0
24.0	33.5	39.7	6 700*	37.1	40.9	7 200*	42.0	42.4	8 100*	46.4	43.5	9 100*	52.9	44.8	11 000*				24.0
25.0	28.8	37.9	6 200*	32.9	39.4	6 700*	38.2	41.1	7 500*	42.9	42.4	8 300*	49.8	44.0	10 000*	55.9	44.9	12 200*	25.0
26.0				28.0	37.6	6 200*	34.1	39.7	6 900*	39.2	41.2	7 600*	46.6	43.0	9 200*	53.0	44.1	11 100*	26.0
27.0				22.1	35.3	5 700*	29.4	37.9	6 300*	35.2	39.8	7 000*	43.2	42.0	8 400*	49.9	43.3	10 100*	27.0
28.0							23.8	35.8	5 800*	30.6	38.2	6 500*	39.5	40.8	7 700*	46.6	42.4	9 200*	28.0
29.0										25.3	36.2	6 000*	35.4	39.4	7 100*	43.2	41.3	8 500*	29.0
30.0										18.6	33.5	5 600*	30.9	37.8	6 600*	39.5	40.1	7 800*	30.0
31.0													25.7	35.8	6 100*	35.5	38.7	7 200*	31.0
32.0													19.1	33.2	5 600*	31.0	37.1	6 600*	32.0
33.0																25.8	35.1	6 100*	33.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 24.4m (80 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

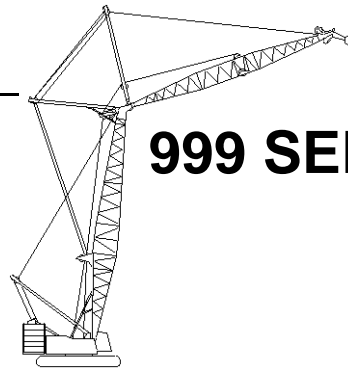
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	76.0	53.2	26 700*																10.7
11.0	75.2	53.1	26 700*																11.0
12.0	73.1	52.8	26 700*																12.0
13.0	70.8	52.4	24 900*																13.0
14.0	68.6	52.0	22 600*	70.5	52.3	25 100*													14.0
15.0	66.3	51.6	20 100*	68.2	51.9	22 200*													15.0
16.0	63.9	51.1	17 900*	65.9	51.4	19 700*	68.8	51.8	23 000*										16.0
17.0	61.5	50.5	16 200*	63.6	50.9	17 700*	66.5	51.4	20 300*										17.0
18.0	59.1	49.9	14 700*	61.2	50.4	16 000*	64.2	50.9	18 200*										18.0
19.0	56.6	49.3	13 400*	58.7	49.8	14 500*	61.8	50.4	16 400*	64.8	50.8	18 900*							19.0
20.0	54.0	48.5	12 200*	56.2	49.1	13 200*	59.4	49.8	15 000*	62.4	50.3	16 900*							20.0
21.0	51.3	47.7	11 200*	53.6	48.4	12 100*	56.9	49.1	13 600*	60.0	49.7	15 400*							21.0
22.0	48.5	46.9	10 300*	50.9	47.5	11 100*	54.3	48.4	12 400*	57.5	49.1	14 000*							22.0
23.0	45.6	45.9	9 500*	48.1	46.6	10 300*	51.6	47.6	11 400*	55.0	48.4	12 800*	60.2	49.2	15 500*				23.0
24.0	42.5	44.8	8 800*	45.1	45.7	9 400*	48.8	46.7	10 500*	52.3	47.6	11 800*	57.7	48.6	14 200*				24.0
25.0	39.2	43.6	8 200*	42.0	44.6	8 700*	45.9	45.8	9 700*	49.6	46.7	10 800*	55.1	47.9	12 900*				25.0
26.0	35.6	42.2	7 600*	38.7	43.3	8 100*	42.8	44.7	9 000*	46.7	45.8	9 900*	52.5	47.1	11 900*	57.7	47.9	14 200*	26.0
27.0	31.7	40.6	7 000*	35.0	41.9	7 500*	39.6	43.5	8 300*	43.7	44.8	9 200*	49.7	46.3	10 900*	55.2	47.2	13 000*	27.0
28.0	27.2	38.8	6 500*	31.1	40.3	7 000*	36.0	42.2	7 700*	40.4	43.6	8 500*	46.9	45.4	10 100*	52.5	46.4	11 900*	28.0
29.0				26.5	38.4	6 500*	32.2	40.6	7 200*	37.0	42.3	7 900*	43.9	44.3	9 300*	49.8	45.6	11 000*	29.0
30.0				21.0	35.9	6 100*	27.8	38.8	6 700*	33.2	40.8	7 400*	40.7	43.2	8 600*	46.9	44.7	10 100*	30.0
31.0							22.6	36.5	6 200*	29.0	39.0	6 800*	37.2	41.9	8 000*	43.9	43.6	9 400*	31.0
32.0							15.7	33.4	5 800*	24.0	36.9	6 300*	33.5	40.4	7 400*	40.7	42.5	8 700*	32.0
33.0										17.8	34.1	5 900*	29.3	38.6	6 900*	37.2	41.2	8 100*	33.0
34.0													24.4	36.5	6 400*	33.5	39.7	7 500*	34.0
35.0													18.2	33.8	6 000*	29.3	38.0	7 000*	35.0
36.0																24.4	35.9	6 500*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



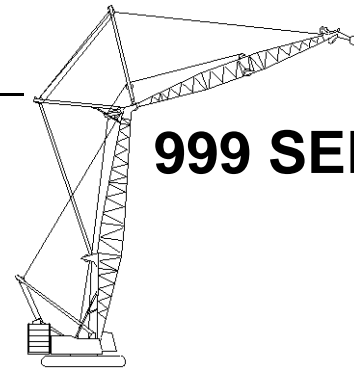
## 999 SERIES 3

### 24.4m (80 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.2	50.0	26 600*																10.7
11.0	73.3	49.9	25 300*																11.0
12.0	70.8	49.5	21 600*																12.0
13.0	68.3	49.1	18 600*	70.4	49.4	21 300*													13.0
14.0	65.7	48.7	16 400*	67.9	49.0	18 300*													14.0
15.0	63.0	48.2	14 500*	65.3	48.5	16 100*													15.0
16.0	60.3	47.6	13 000*	62.6	48.0	14 300*	66.0	48.5	16 800*										16.0
17.0	57.5	46.9	11 700*	59.9	47.4	12 800*	63.3	48.0	14 800*	66.7	48.4	17 400*							17.0
18.0	54.6	46.2	10 600*	57.1	46.8	11 500*	60.6	47.4	13 200*	64.0	47.9	15 400*							18.0
19.0	51.6	45.4	9 600*	54.2	46.1	10 400*	57.8	46.8	11 900*	61.3	47.4	13 600*							19.0
20.0	48.4	44.6	8 700*	51.1	45.2	9 500*	54.9	46.1	10 800*	58.6	46.7	12 300*							20.0
21.0	45.1	43.6	8 000*	48.0	44.3	8 600*	52.0	45.3	9 800*	55.7	46.1	11 100*							21.0
22.0	41.6	42.4	7 300*	44.6	43.3	7 900*	48.8	44.4	8 900*	52.7	45.3	10 100*	58.7	46.3	12 500*				22.0
23.0	37.8	41.2	6 700*	41.0	42.2	7 300*	45.5	43.5	8 100*	49.6	44.4	9 200*	55.9	45.6	11 200*				23.0
24.0	33.5	39.7	6 200*	37.1	40.9	6 700*	42.0	42.4	7 500*	46.4	43.5	8 400*	52.9	44.8	10 200*				24.0
25.0	28.8	37.9	5 700*	32.9	39.4	6 200*	38.2	41.1	6 900*	42.9	42.4	7 700*	49.8	44.0	9 300*	55.9	44.9	11 300*	25.0
26.0				28.0	37.6	5 700*	34.1	39.7	6 300*	39.2	41.2	7 100*	46.6	43.0	8 500*	53.0	44.1	10 200*	26.0
27.0				22.1	35.3	5 200*	29.4	37.9	5 800*	35.2	39.8	6 500*	43.2	42.0	7 800*	49.9	43.3	9 300*	27.0
28.0							23.8	35.8	5 400*	30.6	38.2	6 000*	39.5	40.8	7 100*	46.6	42.4	8 500*	28.0
29.0										25.3	36.2	5 600*	35.4	39.4	6 600*	43.2	41.3	7 800*	29.0
30.0										18.6	33.5	5 100*	30.9	37.8	6 100*	39.5	40.1	7 200*	30.0
31.0													25.7	35.8	5 600*	35.5	38.7	6 600*	31.0
32.0													19.1	33.2	5 200*	31.0	37.1	6 100*	32.0
33.0																25.8	35.1	5 700*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

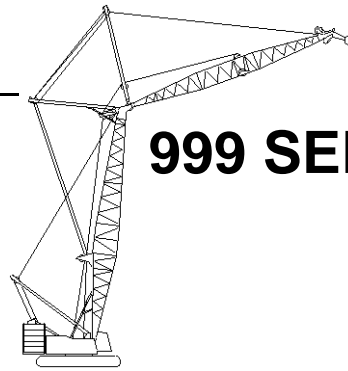
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 24.4m (80 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	76.0	53.2	26 700*																10.7
11.0	75.2	53.1	26 600*																11.0
12.0	73.1	52.8	26 300*																12.0
13.0	70.8	52.4	24 300*																13.0
14.0	68.6	52.0	20 700*	70.5	52.3	23 200*													14.0
15.0	66.3	51.6	18 400*	68.2	51.9	20 500*													15.0
16.0	63.9	51.1	16 500*	65.9	51.4	18 100*	68.8	51.8	21 200*										16.0
17.0	61.5	50.5	14 900*	63.6	50.9	16 300*	66.5	51.4	18 800*										17.0
18.0	59.1	49.9	13 500*	61.2	50.4	14 700*	64.2	50.9	16 800*										18.0
19.0	56.6	49.3	12 300*	58.7	49.8	13 300*	61.8	50.4	15 200*	64.8	50.8	17 400*							19.0
20.0	54.0	48.5	11 200*	56.2	49.1	12 200*	59.4	49.8	13 800*	62.4	50.3	15 600*							20.0
21.0	51.3	47.7	10 300*	53.6	48.4	11 100*	56.9	49.1	12 500*	60.0	49.7	14 100*							21.0
22.0	48.5	46.9	9 500*	50.9	47.5	10 200*	54.3	48.4	11 500*	57.5	49.1	12 900*							22.0
23.0	45.6	45.9	8 700*	48.1	46.6	9 400*	51.6	47.6	10 500*	55.0	48.4	11 800*	60.2	49.2	14 300*				23.0
24.0	42.5	44.8	8 100*	45.1	45.7	8 700*	48.8	46.7	9 700*	52.3	47.6	10 800*	57.7	48.6	13 000*				24.0
25.0	39.2	43.6	7 500*	42.0	44.6	8 000*	45.9	45.8	8 900*	49.6	46.7	9 900*	55.1	47.9	11 900*				25.0
26.0	35.6	42.2	6 900*	38.7	43.3	7 400*	42.8	44.7	8 200*	46.7	45.8	9 100*	52.5	47.1	10 900*	57.7	47.9	13 100*	26.0
27.0	31.7	40.6	6 400*	35.0	41.9	6 900*	39.6	43.5	7 600*	43.7	44.8	8 400*	49.7	46.3	10 100*	55.2	47.2	12 000*	27.0
28.0	27.2	38.8	6 000*	31.1	40.3	6 400*	36.0	42.2	7 100*	40.4	43.6	7 800*	46.9	45.4	9 300*	52.5	46.4	11 000*	28.0
29.0				26.5	38.4	6 000*	32.2	40.6	6 600*	37.0	42.3	7 300*	43.9	44.3	8 600*	49.8	45.6	10 100*	29.0
30.0				21.0	35.9	5 500*	27.8	38.8	6 100*	33.2	40.8	6 800*	40.7	43.2	7 900*	46.9	44.7	9 300*	30.0
31.0							22.6	36.5	5 700*	29.0	39.0	6 300*	37.2	41.9	7 400*	43.9	43.6	8 600*	31.0
32.0							15.7	33.4	5 300*	24.0	36.9	5 800*	33.5	40.4	6 800*	40.7	42.5	8 000*	32.0
33.0										17.8	34.1	5 400*	29.3	38.6	6 400*	37.2	41.2	7 400*	33.0
34.0													24.4	36.5	5 900*	33.5	39.7	6 900*	34.0
35.0													18.2	33.8	5 500*	29.3	38.0	6 400*	35.0
36.0																24.4	35.9	6 000*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

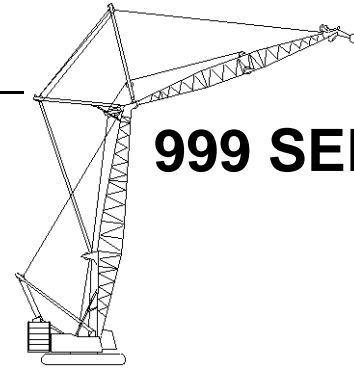
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 24.4m (80 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.4	55.9	26 700*																12.2
13.0	72.8	55.6	25 400*																13.0
14.0	70.8	55.3	23 600*	72.5	55.5	25 700*													14.0
15.0	68.8	54.9	21 400*	70.5	55.2	23 200*													15.0
16.0	66.7	54.5	19 300*	68.5	54.8	20 900*													16.0
17.0	64.7	54.0	17 500*	66.4	54.3	19 100*	69.0	54.7	21 600*										17.0
18.0	62.5	53.5	15 900*	64.3	53.8	17 300*	67.0	54.3	19 600*										18.0
19.0	60.4	52.9	14 500*	62.2	53.3	15 700*	64.9	53.8	17 800*										19.0
20.0	58.1	52.3	13 200*	60.0	52.7	14 400*	62.8	53.3	16 100*	65.4	53.7	18 300*							20.0
21.0	55.8	51.6	12 200*	57.8	52.1	13 200*	60.6	52.7	14 700*	63.3	53.2	16 600*							21.0
22.0	53.5	50.9	11 300*	55.5	51.4	12 100*	58.4	52.1	13 500*	61.2	52.7	15 100*							22.0
23.0	51.1	50.0	10 400*	53.1	50.7	11 200*	56.1	51.4	12 500*	59.0	52.1	13 900*							23.0
24.0	48.6	49.2	9 600*	50.7	49.8	10 300*	53.8	50.7	11 500*	56.7	51.4	12 800*							24.0
25.0	45.9	48.2	9 000*	48.2	49.0	9 600*	51.4	49.9	10 600*	54.4	50.7	11 800*	59.1	51.6	14 100*				25.0
26.0	43.2	47.1	8 300*	45.5	48.0	8 900*	48.9	49.0	9 900*	52.0	49.9	10 900*	56.9	50.9	12 900*				26.0
27.0	40.3	46.0	7 800*	42.8	46.9	8 300*	46.2	48.1	9 100*	49.5	49.0	10 100*	54.5	50.2	11 900*				27.0
28.0	37.2	44.7	7 200*	39.8	45.7	7 700*	43.5	47.0	8 500*	46.9	48.1	9 400*	52.1	49.4	11 000*				28.0
29.0	33.8	43.2	6 700*	36.7	44.4	7 200*	40.6	45.9	7 900*	44.2	47.1	8 700*	49.7	48.6	10 200*	54.6	49.5	12 000*	29.0
30.0	30.1	41.5	6 300*	33.3	42.9	6 700*	37.6	44.6	7 400*	41.4	46.0	8 100*	47.1	47.7	9 500*	52.2	48.7	11 100*	30.0
31.0	26.0	39.5	5 900*	29.5	41.2	6 300*	34.2	43.1	6 900*	38.4	44.7	7 600*	44.4	46.6	8 800*	49.7	47.9	10 300*	31.0
32.0	21.0	37.1	5 500*	25.3	39.1	5 800*	30.6	41.5	6 400*	35.1	43.3	7 100*	41.6	45.5	8 300*	47.1	47.0	9 600*	32.0
33.0				20.1	36.6	5 500*	26.5	39.6	6 000*	31.6	41.7	6 600*	38.6	44.3	7 700*	44.4	46.0	8 900*	33.0
34.0							21.6	37.2	5 600*	27.6	39.9	6 200*	35.3	42.9	7 100*	41.6	44.8	8 300*	34.0
35.0							15.2	33.9	5 300*	23.0	37.6	5 800*	31.8	41.3	6 700*	38.6	43.6	7 800*	35.0
36.0										17.1	34.7	5 300*	27.9	39.5	6 300*	35.4	42.2	7 300*	36.0
37.0													23.3	37.3	5 900*	31.8	40.6	6 800*	37.0
38.0													17.5	34.4	5 500*	27.9	38.8	6 300*	38.0
39.0																23.3	36.6	5 900*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

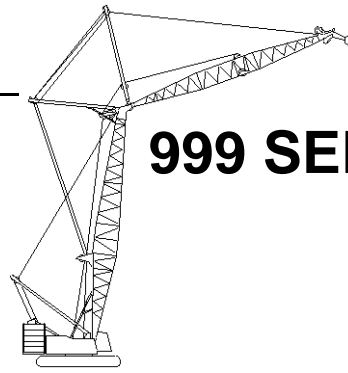
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 24.4m (80 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.9	59.1	26 700*																12.2
13.0	74.4	58.8	25 000*																13.0
14.0	72.6	58.5	22 900*																14.0
15.0	70.8	58.2	20 700*																15.0
16.0	69.0	57.8	18 700*	70.6	58.1	20 400*													16.0
17.0	67.1	57.4	17 100*	68.7	57.7	18 500*													17.0
18.0	65.2	56.9	15 700*	66.8	57.2	16 900*													18.0
19.0	63.3	56.4	14 400*	64.9	56.8	15 500*	67.3	57.2	17 400*										19.0
20.0	61.4	55.8	13 300*	63.0	56.2	14 200*	65.5	56.7	15 800*										20.0
21.0	59.4	55.2	12 300*	61.1	55.7	13 200*	63.5	56.2	14 600*										21.0
22.0	57.3	54.6	11 400*	59.1	55.1	12 200*	61.6	55.7	13 500*	64.0	56.1	14 900*							22.0
23.0	55.2	53.9	10 600*	57.0	54.4	11 300*	59.6	55.1	12 500*	62.1	55.6	13 700*							23.0
24.0	53.1	53.2	9 800*	54.9	53.7	10 500*	57.6	54.5	11 600*	60.1	55.0	12 700*							24.0
25.0	50.9	52.3	9 100*	52.8	53.0	9 700*	55.5	53.8	10 700*	58.1	54.4	11 800*							25.0
26.0	48.6	51.5	8 400*	50.5	52.1	9 000*	53.3	53.0	10 000*	56.0	53.7	10 900*	60.2	54.5	12 700*				26.0
27.0	46.2	50.5	7 700*	48.2	51.3	8 300*	51.1	52.2	9 300*	53.9	53.0	10 200*	58.2	53.9	11 800*				27.0
28.0	43.7	49.5	7 200*	45.9	50.3	7 700*	48.9	51.3	8 600*	51.7	52.2	9 500*	56.2	53.2	11 000*				28.0
29.0	41.2	48.3	6 600*	43.4	49.2	7 100*	46.5	50.4	7 900*	49.5	51.3	8 800*	54.0	52.5	10 200*				29.0
30.0	38.4	47.1	6 100*	40.7	48.1	6 600*	44.0	49.4	7 300*	47.1	50.4	8 200*	51.9	51.7	9 500*				30.0
31.0	35.5	45.7	5 700*	38.0	46.8	6 100*	41.5	48.2	6 800*	44.7	49.4	7 500*	49.6	50.9	8 900*	54.1	51.8	10 200*	31.0
32.0	32.3	44.1	5 300*	35.0	45.4	5 700*	38.7	47.0	6 300*	42.1	48.3	7 000*	47.3	50.0	8 300*	51.9	51.0	9 500*	32.0
33.0	28.8	42.4	4 900*	31.8	43.8	5 200*	35.8	45.6	5 800*	39.5	47.1	6 500*	44.8	49.0	7 700*	49.6	50.2	8 900*	33.0
34.0	24.9	40.3	4 500*	28.3	42.0	4 900*	32.7	44.1	5 400*	36.6	45.8	6 000*	42.3	47.9	7 100*	47.3	49.3	8 300*	34.0
35.0	20.2	37.7	4 200*	24.2	39.9	4 500*	29.3	42.4	5 000*	33.5	44.3	5 600*	39.6	46.7	6 600*	44.9	48.3	7 700*	35.0
36.0				19.4	37.2	3 900*	25.4	40.3	4 600*	30.2	42.6	5 200*	36.8	45.3	6 100*	42.3	47.2	7 200*	36.0
37.0							20.8	37.8	4 200*	26.4	40.7	4 800*	33.7	43.9	5 700*	39.7	46.0	6 700*	37.0
38.0							14.8	34.5	3 500*	22.1	38.3	4 400*	30.4	42.2	5 300*	36.8	44.7	6 200*	38.0
39.0										16.6	35.3	3 700*	26.7	40.3	4 900*	33.8	43.2	5 800*	39.0
40.0													22.4	38.0	4 500*	30.4	41.5	5 300*	40.0
42.0																22.4	37.3	4 500*	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

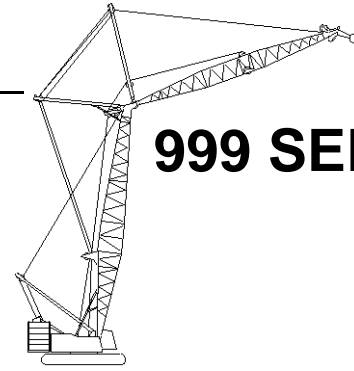
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 24.4m (80 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	74.6	61.8	25 600*																13.7
14.0	74.1	61.7	24 900*																14.0
15.0	72.5	61.4	22 600*																15.0
16.0	70.8	61.1	20 600*	72.2	61.3	22 300*													16.0
17.0	69.1	60.7	18 900*	70.6	60.9	20 300*													17.0
18.0	67.4	60.3	17 400*	68.9	60.5	18 700*													18.0
19.0	65.7	59.8	16 100*	67.2	60.1	17 200*	69.3	60.5	19 200*										19.0
20.0	64.0	59.3	14 900*	65.5	59.7	15 900*	67.6	60.1	17 600*										20.0
21.0	62.2	58.8	13 800*	63.7	59.2	14 700*	65.9	59.6	16 200*										21.0
22.0	60.4	58.2	12 900*	61.9	58.6	13 700*	64.2	59.1	15 000*	66.4	59.5	16 600*							22.0
23.0	58.5	57.6	12 000*	60.1	58.0	12 800*	62.4	58.6	14 000*	64.6	59.0	15 300*							23.0
24.0	56.7	56.9	11 300*	58.3	57.4	11 900*	60.6	58.0	13 000*	62.9	58.5	14 300*							24.0
25.0	54.7	56.2	10 500*	56.4	56.8	11 100*	58.8	57.4	12 200*	61.1	58.0	13 300*							25.0
26.0	52.8	55.5	9 900*	54.4	56.0	10 500*	56.9	56.8	11 400*	59.2	57.4	12 400*							26.0
27.0	50.7	54.6	9 300*	52.4	55.3	9 800*	55.0	56.1	10 600*	57.4	56.7	11 600*							27.0
28.0	48.6	53.8	8 700*	50.4	54.4	9 200*	53.0	55.3	10 000*	55.5	56.0	10 800*	59.3	56.9	12 400*				28.0
29.0	46.5	52.8	8 000*	48.3	53.6	8 600*	51.0	54.5	9 400*	53.5	55.3	10 200*	57.5	56.3	11 600*				29.0
30.0	44.2	51.8	7 500*	46.1	52.6	8 000*	48.9	53.6	8 800*	51.5	54.5	9 500*	55.6	55.6	10 900*				30.0
31.0	41.9	50.7	7 000*	43.9	51.6	7 500*	46.7	52.7	8 300*	49.4	53.6	9 000*	53.6	54.8	10 200*				31.0
32.0	39.4	49.5	6 500*	41.5	50.4	7 000*	44.5	51.7	7 700*	47.3	52.7	8 400*	51.6	54.0	9 600*	55.6	54.9	10 900*	32.0
33.0	36.8	48.1	6 100*	39.0	49.2	6 500*	42.1	50.6	7 200*	45.1	51.7	7 900*	49.6	53.2	9 000*	53.6	54.1	10 200*	33.0
34.0	34.0	46.7	5 600*	36.4	47.9	6 100*	39.7	49.4	6 700*	42.8	50.7	7 400*	47.4	52.3	8 500*	51.6	53.3	9 600*	34.0
35.0	31.0	45.1	5 100*	33.6	46.4	5 700*	37.1	48.1	6 300*	40.3	49.5	6 900*	45.2	51.3	8 000*	49.6	52.5	9 000*	35.0
36.0	27.7	43.2	4 400*	30.5	44.7	5 000*	34.3	46.6	5 800*	37.8	48.2	6 500*	42.9	50.2	7 500*	47.4	51.6	8 500*	36.0
37.0	23.9	41.0	3 600*	27.2	42.8	4 300*	31.4	45.0	5 300*	35.1	46.8	6 000*	40.5	49.0	7 100*	45.2	50.6	8 000*	37.0
38.0	19.5	38.4	3 000*	23.3	40.6	3 500*	28.1	43.2	4 400*	32.2	45.2	5 400*	38.0	47.8	6 600*	42.9	49.5	7 500*	38.0
39.0				18.7	37.9	2 500*	24.4	41.1	3 700*	29.0	43.5	4 700*	35.3	46.4	6 100*	40.5	48.4	7 100*	39.0
40.0							20.1	38.5	2 900*	25.4	41.4	3 800*	32.4	44.8	5 500*	38.0	47.1	6 700*	40.0
42.0													25.7	41.1	3 900*	32.4	44.1	5 500*	42.0
44.0													16.5	35.6	2 400*	25.7	40.4	3 900*	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

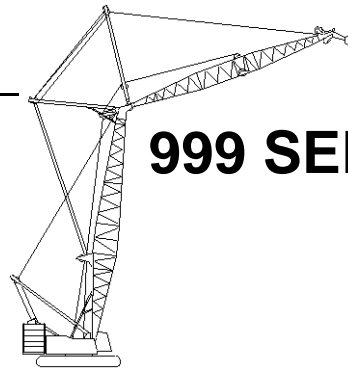
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 24.4m (80 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
13.7	75.8	65.0	24 800*																13.7	
14.0	75.4	64.9	24 100*																14.0	
15.0	73.9	64.6	21 900*																15.0	
16.0	72.4	64.3	19 900*																16.0	
17.0	70.8	63.9	18 200*	72.1	64.2	19 700*													17.0	
18.0	69.3	63.6	16 700*	70.6	63.8	18 000*													18.0	
19.0	67.7	63.1	15 400*	69.0	63.4	16 500*													19.0	
20.0	66.1	62.7	14 200*	67.5	63.0	15 200*	69.5	63.4	16 900*										20.0	
21.0	64.5	62.2	13 200*	65.9	62.6	14 100*	67.9	63.0	15 600*										21.0	
22.0	62.9	61.7	12 200*	64.3	62.1	13 000*	66.3	62.5	14 400*										22.0	
23.0	61.2	61.1	11 400*	62.6	61.5	12 100*	64.7	62.0	13 300*	66.7	62.4	14 700*							23.0	
24.0	59.5	60.6	10 600*	61.0	61.0	11 200*	63.1	61.5	12 400*	65.1	61.9	13 600*							24.0	
25.0	57.8	59.9	9 900*	59.3	60.4	10 500*	61.4	61.0	11 500*	63.5	61.4	12 600*							25.0	
26.0	56.1	59.3	9 200*	57.6	59.8	9 700*	59.7	60.4	10 700*	61.9	60.9	11 700*							26.0	
27.0	54.3	58.5	8 600*	55.8	59.1	9 100*	58.0	59.8	9 900*	60.2	60.3	10 900*							27.0	
28.0	52.5	57.8	8 000*	54.0	58.4	8 500*	56.3	59.1	9 300*	58.5	59.7	10 100*	62.0	60.4	11 700*				28.0	
29.0	50.6	56.9	7 500*	52.2	57.6	7 900*	54.5	58.4	8 700*	56.7	59.1	9 400*	60.3	59.9	10 900*				29.0	
30.0	48.7	56.1	7 000*	50.3	56.7	7 400*	52.7	57.6	8 100*	55.0	58.4	8 800*	58.6	59.2	10 200*				30.0	
31.0	46.7	55.1	6 500*	48.4	55.9	6 900*	50.8	56.8	7 600*	53.2	57.6	8 200*	56.9	58.6	9 500*				31.0	
32.0	44.6	54.1	6 100*	46.4	54.9	6 500*	48.9	55.9	7 100*	51.3	56.8	7 700*	55.1	57.9	8 800*				32.0	
33.0	42.5	53.0	5 700*	44.3	53.9	6 100*	46.9	55.0	6 600*	49.4	55.9	7 200*	53.3	57.1	8 300*				33.0	
34.0	40.2	51.8	5 300*	42.1	52.8	5 700*	44.8	54.0	6 200*	47.4	55.0	6 700*	51.4	56.3	7 700*	55.1	57.2	8 900*	34.0	
35.0	37.9	50.6	5 000*	39.9	51.6	5 300*	42.7	52.9	5 800*	45.4	54.0	6 300*	49.5	55.5	7 200*	53.3	56.4	8 300*	35.0	
36.0	35.4	49.2	4 500*	37.5	50.3	4 900*	40.5	51.8	5 400*	43.3	53.0	5 900*	47.5	54.6	6 800*	51.4	55.6	7 700*	36.0	
37.0	32.7	47.6	4 000*	35.0	48.9	4 500*	38.2	50.5	5 000*	41.1	51.8	5 500*	45.5	53.6	6 300*	49.5	54.8	7 200*	37.0	
38.0	29.9	45.9	3 300*	32.3	47.3	3 800*	35.7	49.1	4 700*	38.8	50.6	5 200*	43.4	52.5	5 900*	47.6	53.9	6 800*	38.0	
39.0	26.7	44.0	2 600*	29.4	45.6	3 200*	33.1	47.6	4 100*	36.3	49.3	4 700*	41.2	51.4	5 500*	45.5	52.9	6 400*	39.0	
40.0				26.2	43.6	2 500*	30.2	45.9	3 300*	33.7	47.8	4 200*	38.9	50.2	5 200*	43.4	51.9	5 900*	40.0	
42.0																				42.0
44.0																				44.0
46.0																				46.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 27.4m (90 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	56.9	39.6	16 700*	62.3	40.2	20 100* <sup>b</sup>												10.7	
11.0	54.9	39.4	16 000*	60.4	40.0	19 000* <sup>b</sup>												11.0	
12.0	48.6	38.5	13 600*	54.6	39.3	15 800*												12.0	
13.0	41.5	37.4	11 700*	48.3	38.4	13 400*	57.1	39.4	17 300*									13.0	
14.0	33.0	35.9	10 200*	41.1	37.3	11 600*	51.0	38.6	14 400*	59.5	39.5	18 600* <sup>b</sup>						14.0	
15.0	21.4	33.7	8 900*	32.6	35.8	10 200*	44.3	37.6	12 300*	53.6	38.7	15 500*						15.0	
16.0							36.5	36.3	10 800*	47.2	37.8	13 100*						16.0	
17.0										39.9	36.6	11 400*	55.6	38.4	16 400*			17.0	
18.0										31.0	35.0	10 000*	49.4	37.5	14 000*			18.0	
19.0													42.4	36.5	12 000*			19.0	
20.0													34.1	35.0	10 500*	51.1	37.0	14 600*	20.0
21.0													23.1	33.0	9 200*	44.3	36.0	12 600*	21.0
22.0																36.5	34.7	10 900*	22.0

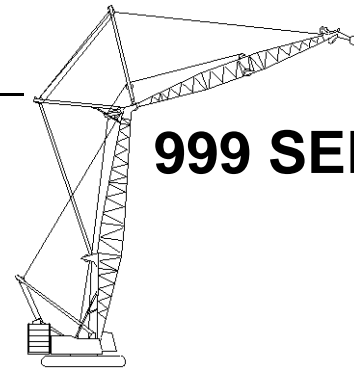
### 27.4m (90 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	65.4	40.6	19 000* <sup>b</sup>															9.1	
10.0	60.7	40.1	16 200*															10.0	
11.0	54.9	39.4	13 200*	60.4	40.0	16 000*												11.0	
12.0	48.6	38.5	11 200*	54.6	39.3	13 300*												12.0	
13.0	41.5	37.4	9 600*	48.3	38.4	11 100*	57.1	39.4	14 500*									13.0	
14.0	33.0	35.9	8 400*	41.1	37.3	9 600*	51.0	38.6	12 000*	59.5	39.5	15 600*						14.0	
15.0	21.4	33.7	7 300*	32.6	35.8	8 400*	44.3	37.6	10 300*	53.6	38.7	13 000*						15.0	
16.0							36.5	36.3	8 900*	47.2	37.8	10 900*						16.0	
17.0										39.9	36.6	9 500*	55.6	38.4	13 700*			17.0	
18.0										31.0	35.0	8 200*	49.4	37.5	11 700*			18.0	
19.0													42.4	36.5	9 900*			19.0	
20.0													34.1	35.0	8 600*	51.1	37.0	12 200*	20.0
21.0													23.1	33.0	7 500*	44.3	36.0	10 500*	21.0
22.0																36.5	34.7	9 000*	22.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 27.4m (90 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

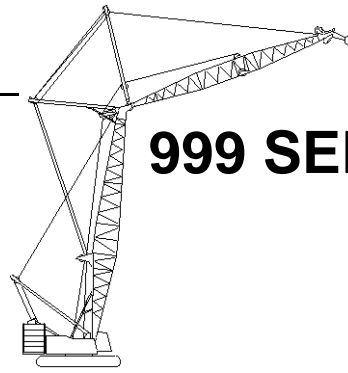
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	65.4	40.6	16 900*b																9.1
10.0	60.7	40.1	14 400*																10.0
11.0	54.9	39.4	11 600*	60.4	40.0	14 100*													11.0
12.0	48.6	38.5	9 800*	54.6	39.3	11 700*													12.0
13.0	41.5	37.4	8 400*	48.3	38.4	9 700*	57.1	39.4	12 700*										13.0
14.0	33.0	35.9	7 300*	41.1	37.3	8 400*	51.0	38.6	10 500*	59.5	39.5	13 700*							14.0
15.0	21.4	33.7	6 300*	32.6	35.8	7 200*	44.3	37.6	8 900*	53.6	38.7	11 400*							15.0
16.0							36.5	36.3	7 700*	47.2	37.8	9 500*							16.0
17.0										39.9	36.6	8 200*	55.6	38.4	12 100*				17.0
18.0										31.0	35.0	7 100*	49.4	37.5	10 200*				18.0
19.0													42.4	36.5	8 600*				19.0
20.0													34.1	35.0	7 500*	51.1	37.0	10 700*	20.0
21.0													23.1	33.0	6 500*	44.3	36.0	9 100*	21.0
22.0																36.5	34.7	7 800*	22.0

### 27.4m (90 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	70.7	43.9	24 400*b																9.1
10.0	67.1	43.6	20 700*																10.0
11.0	62.9	43.0	16 800*	66.9	43.5	20 400*													11.0
12.0	58.4	42.4	14 200*	62.7	42.9	16 900*													12.0
13.0	53.7	41.7	12 300*	58.2	42.3	14 100*	64.5	43.0	18 400*										13.0
14.0	48.7	40.8	10 700*	53.5	41.6	12 200*	60.1	42.4	15 200*	66.3	43.0	19 800*							14.0
15.0	43.1	39.7	9 400*	48.4	40.7	10 600*	55.5	41.7	13 000*	62.0	42.4	16 500*							15.0
16.0	36.9	38.4	8 300*	42.9	39.6	9 400*	50.6	40.9	11 300*	57.5	41.8	13 900*							16.0
17.0	29.5	36.8	7 400*	36.6	38.3	8 300*	45.3	39.9	9 900*	52.7	41.0	12 000*							17.0
18.0	19.4	34.3	6 600*	29.2	36.6	7 400*	39.4	38.7	8 800*	47.6	40.1	10 500*							18.0
19.0							32.6	37.2	7 800*	41.9	39.0	9 200*	54.3	40.7	12 800*				19.0
20.0										35.6	37.6	8 200*	49.3	39.8	11 000*				20.0
21.0										27.8	35.9	7 300*	43.8	38.8	9 700*				21.0
22.0													37.7	37.5	8 600*	50.6	39.3	11 500*	22.0
23.0													30.5	35.9	7 600*	45.3	38.3	10 000*	23.0
24.0													20.9	33.6	6 700*	39.4	37.1	8 900*	24.0
25.0																32.6	35.6	7 900*	25.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 27.4m (90 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

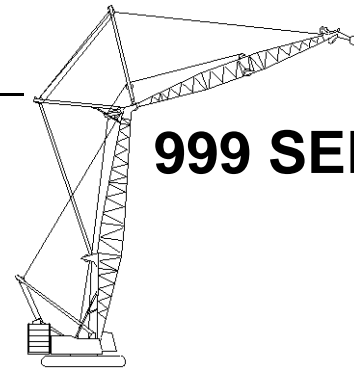
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	65.4	40.6	15 800*	70.4	41.0	20 000*												9.1	
10.0	60.7	40.1	13 400*	65.9	40.6	16 600*												10.0	
11.0	54.9	39.4	10 900*	60.4	40.0	13 000*	68.2	40.6	18 300*									11.0	
12.0	48.6	38.5	9 300*	54.6	39.3	10 800*	62.8	40.1	14 500*									12.0	
13.0	41.5	37.4	8 000*	48.3	38.4	9 200*	57.1	39.4	11 600*									13.0	
14.0	33.0	35.9	7 000*	41.1	37.3	8 000*	51.0	38.6	9 900*	59.5	39.5	12 900*						14.0	
15.0	21.4	33.7	6 100*	32.6	35.8	6 900*	44.3	37.6	8 500*	53.6	38.7	10 700*						15.0	
16.0							36.5	36.3	7 300*	47.2	37.8	9 000*						16.0	
17.0										39.9	36.6	7 800*	55.6	38.4	11 300*			17.0	
18.0										31.0	35.0	6 800*	49.4	37.5	9 600*			18.0	
19.0													42.4	36.5	8 200*			19.0	
20.0													34.1	35.0	7 100*	51.1	37.0	20.0	
21.0													23.1	33.0	6 200*	44.3	36.0	21.0	
22.0																36.5	34.7	22.0	

### 27.4m (90 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	70.7	43.9	21 900*															9.1	
10.0	67.1	43.6	18 700*															10.0	
11.0	62.9	43.0	15 100*	66.9	43.5	18 400*												11.0	
12.0	58.4	42.4	12 800*	62.7	42.9	15 200*												12.0	
13.0	53.7	41.7	11 000*	58.2	42.3	12 700*	64.5	43.0	16 600*									13.0	
14.0	48.7	40.8	9 600*	53.5	41.6	11 000*	60.1	42.4	13 700*	66.3	43.0	17 800*						14.0	
15.0	43.1	39.7	8 400*	48.4	40.7	9 600*	55.5	41.7	11 700*	62.0	42.4	14 800*						15.0	
16.0	36.9	38.4	7 500*	42.9	39.6	8 400*	50.6	40.9	10 100*	57.5	41.8	12 400*						16.0	
17.0	29.5	36.8	6 700*	36.6	38.3	7 400*	45.3	39.9	8 900*	52.7	41.0	10 800*						17.0	
18.0	19.4	34.3	5 900*	29.2	36.6	6 600*	39.4	38.7	7 800*	47.6	40.1	9 400*						18.0	
19.0							32.6	37.2	7 000*	41.9	39.0	8 300*	54.3	40.7	11 400*			19.0	
20.0										35.6	37.6	7 400*	49.3	39.8	9 800*			20.0	
21.0										27.8	35.9	6 500*	43.8	38.8	8 600*			21.0	
22.0													37.7	37.5	7 600*	50.6	39.3	22.0	
23.0													30.5	35.9	6 800*	45.3	38.3	23.0	
24.0													20.9	33.6	6 100*	39.4	37.1	24.0	
25.0																32.6	35.6	25.0	



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

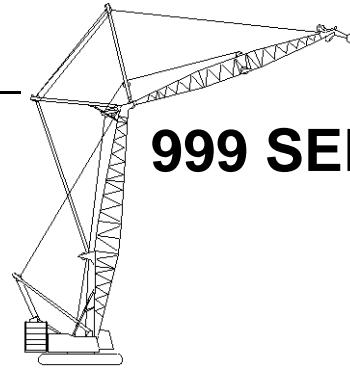
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 27.4m (90 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	74.0	47.2	26 700*																9.1
10.0	71.2	46.9	23 100*																10.0
11.0	67.8	46.4	19 200*	71.0	46.8	23 200*													11.0
12.0	64.3	46.0	16 300*	67.6	46.4	19 200*													12.0
13.0	60.6	45.4	14 000*	64.1	45.9	16 100*													13.0
14.0	56.9	44.7	12 200*	60.5	45.3	14 000*	65.6	45.9	17 500*										14.0
15.0	52.9	44.0	10 800*	56.7	44.6	12 200*	62.0	45.4	15 000*										15.0
16.0	48.7	43.1	9 600*	52.7	43.9	10 700*	58.3	44.8	12 900*	63.5	45.4	16 100*							16.0
17.0	44.2	42.1	8 600*	48.5	43.0	9 600*	54.4	44.0	11 300*	59.9	44.8	13 700*							17.0
18.0	39.3	40.9	7 700*	44.0	42.0	8 500*	50.3	43.2	10 100*	56.1	44.1	12 000*							18.0
19.0	33.7	39.4	6 900*	39.0	40.7	7 600*	46.0	42.2	9 000*	52.1	43.3	10 600*							19.0
20.0	27.1	37.6	6 300*	33.4	39.3	6 900*	41.2	41.1	8 000*	47.8	42.4	9 400*	57.3	43.7	12 600*				20.0
21.0	18.1	34.9	5 700*	26.7	37.4	6 200*	35.9	39.8	7 200*	43.2	41.4	8 400*	53.4	43.0	11 100*				21.0
22.0							29.8	38.1	6 500*	38.2	40.1	7 600*	49.2	42.1	9 800*				22.0
23.0										32.5	38.6	6 800*	44.8	41.1	8 800*	54.4	42.4	11 500*	23.0
24.0										25.5	36.6	6 200*	39.9	40.0	7 900*	50.4	41.6	10 200*	24.0
25.0													34.4	38.5	7 100*	46.0	40.6	9 000*	25.0
26.0													27.9	36.7	6 400*	41.2	39.5	8 100*	26.0
27.0													19.4	34.2	5 800*	35.9	38.2	7 300*	27.0
28.0																29.8	36.5	6 600*	28.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

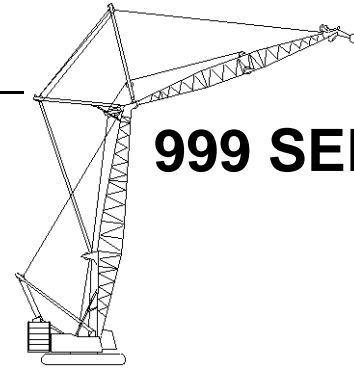
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 27.4m (90 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	72.1	49.9	26 500*																10.7
11.0	71.1	49.7	25 200*																11.0
12.0	68.2	49.3	21 400*																12.0
13.0	65.2	48.9	18 300*	68.1	49.2	21 400*													13.0
14.0	62.2	48.3	16 000*	65.1	48.8	18 200*	69.3	49.3	22 800*										14.0
15.0	59.0	47.7	14 100*	62.0	48.2	16 000*	66.4	48.8	19 500*										15.0
16.0	55.8	47.1	12 600*	58.9	47.6	14 100*	63.4	48.3	16 900*										16.0
17.0	52.3	46.3	11 300*	55.6	46.9	12 600*	60.2	47.7	14 900*	64.6	48.3	18 000*							17.0
18.0	48.8	45.4	10 200*	52.2	46.2	11 300*	57.0	47.1	13 200*	61.5	47.7	15 800*							18.0
19.0	44.9	44.4	9 200*	48.6	45.3	10 100*	53.7	46.3	11 800*	58.4	47.1	13 900*							19.0
20.0	40.8	43.3	8 300*	44.8	44.3	9 200*	50.1	45.5	10 600*	55.1	46.4	12 400*							20.0
21.0	36.3	41.9	7 600*	40.6	43.1	8 300*	46.4	44.6	9 600*	51.6	45.6	11 100*							21.0
22.0	31.2	40.3	6 900*	36.1	41.8	7 600*	42.4	43.5	8 700*	48.0	44.7	10 000*	56.2	46.1	13 000*				22.0
23.0	25.2	38.3	6 300*	31.0	40.2	6 900*	38.1	42.2	7 900*	44.1	43.7	9 100*	52.8	45.3	11 600*				23.0
24.0	17.0	35.5	5 800*	24.9	38.1	6 300*	33.3	40.7	7 200*	40.0	42.5	8 300*	49.2	44.4	10 400*				24.0
25.0							27.7	38.9	6 600*	35.4	41.1	7 500*	45.4	43.5	9 400*	53.7	44.7	12 000*	25.0
26.0										30.1	39.5	6 900*	41.3	42.3	8 600*	50.2	43.9	10 800*	26.0
27.0										23.8	37.3	6 300*	36.9	41.0	7 800*	46.4	43.0	9 700*	27.0
28.0													31.9	39.5	7 100*	42.5	41.9	8 800*	28.0
29.0													26.0	37.5	6 500*	38.1	40.6	8 000*	29.0
30.0													18.2	34.8	6 000*	33.3	39.1	7 300*	30.0
31.0																27.7	37.3	6 700*	31.0
32.0																20.6	34.9	6 100*	32.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

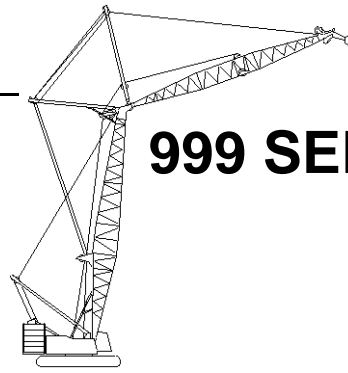
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 27.4m (90 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
10.7	74.4	53.1	26 700*																10.7
11.0	73.6	53.0	26 300*																11.0
12.0	71.1	52.6	25 100*																12.0
13.0	68.6	52.2	22 700*	71.0	52.5	24 700*													13.0
14.0	66.0	51.8	19 400*	68.4	52.1	22 200*													14.0
15.0	63.3	51.3	17 200*	65.8	51.7	19 500*													15.0
16.0	60.6	50.7	15 400*	63.2	51.2	17 200*	67.0	51.7	20 700*										16.0
17.0	57.8	50.1	13 800*	60.5	50.6	15 400*	64.3	51.2	18 100*										17.0
18.0	54.9	49.4	12 500*	57.7	50.0	13 800*	61.6	50.7	16 100*										18.0
19.0	51.9	48.6	11 400*	54.8	49.3	12 500*	58.9	50.1	14 500*	62.8	50.7	17 100*							19.0
20.0	48.8	47.7	10 400*	51.8	48.5	11 400*	56.0	49.4	13 100*	60.0	50.1	15 200*							20.0
21.0	45.5	46.7	9 500*	48.6	47.6	10 400*	53.1	48.6	11 900*	57.2	49.4	13 700*							21.0
22.0	42.0	45.6	8 700*	45.3	46.6	9 500*	50.0	47.8	10 800*	54.3	48.7	12 400*	60.9	49.7	15 900*				22.0
23.0	38.2	44.4	8 000*	41.8	45.5	8 700*	46.8	46.9	9 900*	51.3	47.9	11 300*	58.1	49.1	14 200*				23.0
24.0	34.0	42.9	7 400*	38.0	44.2	8 000*	43.3	45.8	9 100*	48.1	47.0	10 300*	55.3	48.4	12 800*				24.0
25.0	29.3	41.2	6 800*	33.8	42.8	7 400*	39.7	44.6	8 400*	44.8	46.0	9 500*	52.3	47.6	11 700*				25.0
26.0	23.7	39.0	6 300*	29.1	41.0	6 800*	35.7	43.2	7 700*	41.2	44.9	8 700*	49.2	46.7	10 700*	56.0	47.8	13 300*	26.0
27.0	16.3	36.0	5 800*	23.4	38.9	6 300*	31.2	41.6	7 100*	37.4	43.6	8 000*	45.9	45.8	9 800*	53.1	47.0	12 100*	27.0
28.0							26.0	39.7	6 500*	33.1	42.1	7 400*	42.4	44.7	9 000*	50.0	46.2	11 000*	28.0
29.0										28.3	40.3	6 800*	38.6	43.5	8 300*	46.8	45.3	10 100*	29.0
30.0										22.4	38.0	6 300*	34.5	42.0	7 600*	43.3	44.2	9 200*	30.0
31.0													29.9	40.3	7 000*	39.7	43.0	8 500*	31.0
32.0													24.5	38.3	6 500*	35.7	41.6	7 800*	32.0
33.0													17.3	35.4	6 000*	31.2	40.0	7 200*	33.0
34.0																26.0	38.1	6 700*	34.0
35.0																19.5	35.5	6 200*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

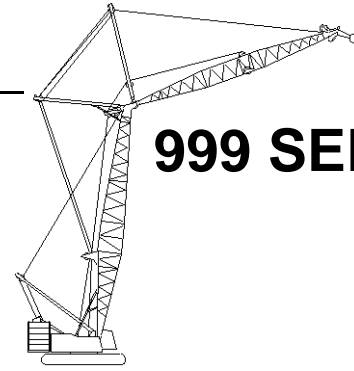
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 27.4m (90 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.9	55.8	26 700*																12.2
13.0	71.1	55.5	26 100*																13.0
14.0	68.8	55.1	25 000*	71.0	55.4	26 200*													14.0
15.0	66.5	54.7	22 300*	68.7	55.0	24 400*													15.0
16.0	64.2	54.2	19 800*	66.4	54.6	22 300*													16.0
17.0	61.8	53.6	17 900*	64.1	54.1	19 800*	67.4	54.6	23 300*										17.0
18.0	59.4	53.0	16 200*	61.7	53.5	17 900*	65.1	54.1	20 800*										18.0
19.0	56.9	52.4	14 800*	59.3	52.9	16 200*	62.7	53.6	18 700*	66.1	54.1	21 900*							19.0
20.0	54.3	51.7	13 500*	56.7	52.3	14 700*	60.3	53.0	17 000*	63.7	53.6	19 600*							20.0
21.0	51.6	50.9	12 400*	54.2	51.6	13 500*	57.8	52.4	15 400*	61.3	53.0	17 700*							21.0
22.0	48.8	50.0	11 400*	51.5	50.8	12 400*	55.3	51.7	14 100*	58.9	52.4	16 100*							22.0
23.0	45.9	49.0	10 500*	48.7	49.9	11 400*	52.6	50.9	12 900*	56.3	51.8	14 700*	62.1	52.6	18 300*				23.0
24.0	42.8	48.0	9 700*	45.8	48.9	10 500*	49.9	50.1	11 900*	53.7	51.0	13 400*	59.7	52.1	16 700*				24.0
25.0	39.5	46.8	9 000*	42.7	47.8	9 700*	47.0	49.2	11 000*	51.0	50.2	12 400*	57.2	51.4	15 200*				25.0
26.0	36.0	45.4	8 400*	39.4	46.6	9 000*	44.0	48.1	10 100*	48.2	49.3	11 400*	54.6	50.7	13 900*				26.0
27.0	32.1	43.9	7 800*	35.8	45.3	8 400*	40.8	47.0	9 400*	45.3	48.3	10 500*	51.9	49.9	12 800*				27.0
28.0	27.7	42.0	7 200*	31.9	43.7	7 800*	37.4	45.7	8 700*	42.2	47.2	9 800*	49.1	49.0	11 800*	55.3	50.1	14 300*	28.0
29.0	22.5	39.7	6 700*	27.5	41.9	7 200*	33.7	44.2	8 100*	38.8	46.0	9 000*	46.2	48.1	10 900*	52.6	49.3	13 100*	29.0
30.0	15.6	36.6	6 300*	22.3	39.6	6 700*	29.5	42.5	7 500*	35.2	44.6	8 400*	43.2	47.0	10 100*	49.9	48.5	12 100*	30.0
31.0							24.7	40.4	7 000*	31.3	43.0	7 800*	39.9	45.8	9 300*	47.0	47.6	11 200*	31.0
32.0							18.6	37.7	6 500*	26.8	41.1	7 300*	36.4	44.5	8 700*	44.0	46.5	10 300*	32.0
33.0										21.3	38.7	6 800*	32.6	43.0	8 100*	40.8	45.4	9 600*	33.0
34.0													28.3	41.2	7 500*	37.4	44.1	8 900*	34.0
35.0													23.2	39.0	7 000*	33.7	42.6	8 300*	35.0
36.0													16.6	36.0	6 500*	29.5	40.9	7 700*	36.0
37.0																24.7	38.8	7 200*	37.0
38.0																18.6	36.1	6 700*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

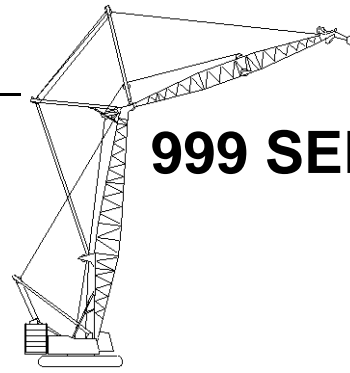
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 27.4m (90 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.4	53.1	26 700*																10.7
11.0	73.6	53.0	25 900*																11.0
12.0	71.1	52.6	23 400*																12.0
13.0	68.6	52.2	20 700*	71.0	52.5	23 700*													13.0
14.0	66.0	51.8	18 000*	68.4	52.1	20 300*													14.0
15.0	63.3	51.3	15 900*	65.8	51.7	17 900*													15.0
16.0	60.6	50.7	14 200*	63.2	51.2	15 800*	67.0	51.7	19 100*										16.0
17.0	57.8	50.1	12 800*	60.5	50.6	14 200*	64.3	51.2	16 700*										17.0
18.0	54.9	49.4	11 600*	57.7	50.0	12 700*	61.6	50.7	14 900*										18.0
19.0	51.9	48.6	10 500*	54.8	49.3	11 500*	58.9	50.1	13 400*	62.8	50.7	15 800*							19.0
20.0	48.8	47.7	9 600*	51.8	48.5	10 500*	56.0	49.4	12 100*	60.0	50.1	14 000*							20.0
21.0	45.5	46.7	8 700*	48.6	47.6	9 600*	53.1	48.6	11 000*	57.2	49.4	12 600*							21.0
22.0	42.0	45.6	8 000*	45.3	46.6	8 800*	50.0	47.8	10 000*	54.3	48.7	11 500*	60.9	49.7	14 700*				22.0
23.0	38.2	44.4	7 400*	41.8	45.5	8 000*	46.8	46.9	9 100*	51.3	47.9	10 400*	58.1	49.1	13 100*				23.0
24.0	34.0	42.9	6 800*	38.0	44.2	7 400*	43.3	45.8	8 400*	48.1	47.0	9 500*	55.3	48.4	11 900*				24.0
25.0	29.3	41.2	6 300*	33.8	42.8	6 800*	39.7	44.6	7 700*	44.8	46.0	8 700*	52.3	47.6	10 800*				25.0
26.0	23.7	39.0	5 800*	29.1	41.0	6 300*	35.7	43.2	7 100*	41.2	44.9	8 000*	49.2	46.7	9 800*	56.0	47.8	12 200*	26.0
27.0	16.3	36.0	5 400*	23.4	38.9	5 800*	31.2	41.6	6 500*	37.4	43.6	7 400*	45.9	45.8	9 000*	53.1	47.0	11 200*	27.0
28.0							26.0	39.7	6 000*	33.1	42.1	6 800*	42.4	44.7	8 300*	50.0	46.2	10 200*	28.0
29.0										28.3	40.3	6 300*	38.6	43.5	7 600*	46.8	45.3	9 300*	29.0
30.0										22.4	38.0	5 800*	34.5	42.0	7 000*	43.3	44.2	8 500*	30.0
31.0													29.9	40.3	6 500*	39.7	43.0	7 800*	31.0
32.0													24.5	38.3	6 000*	35.7	41.6	7 200*	32.0
33.0													17.3	35.4	5 500*	31.2	40.0	6 700*	33.0
34.0																26.0	38.1	6 200*	34.0
35.0																19.5	35.5	5 700*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

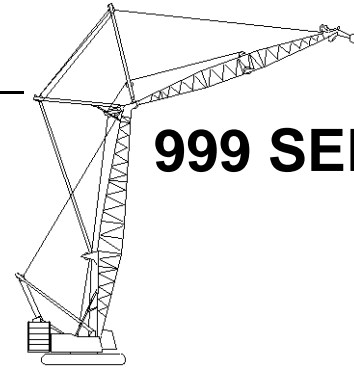
### 27.4m (90 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.9	55.8	26 700*																12.2
13.0	71.1	55.5	25 100*																13.0
14.0	68.8	55.1	23 000*	71.0	55.4	25 800*													14.0
15.0	66.5	54.7	20 400*	68.7	55.0	22 800*													15.0
16.0	64.2	54.2	18 100*	66.4	54.6	20 200*													16.0
17.0	61.8	53.6	16 400*	64.1	54.1	18 100*	67.4	54.6	21 300*										17.0
18.0	59.4	53.0	14 800*	61.7	53.5	16 300*	65.1	54.1	19 100*										18.0
19.0	56.9	52.4	13 500*	59.3	52.9	14 800*	62.7	53.6	17 100*	66.1	54.1	20 000*							19.0
20.0	54.3	51.7	12 400*	56.7	52.3	13 500*	60.3	53.0	15 500*	63.7	53.6	17 900*							20.0
21.0	51.6	50.9	11 300*	54.2	51.6	12 300*	57.8	52.4	14 100*	61.3	53.0	16 200*							21.0
22.0	48.8	50.0	10 400*	51.5	50.8	11 300*	55.3	51.7	12 900*	58.9	52.4	14 700*							22.0
23.0	45.9	49.0	9 600*	48.7	49.9	10 400*	52.6	50.9	11 800*	56.3	51.8	13 400*	62.1	52.6	16 800*				23.0
24.0	42.8	48.0	8 900*	45.8	48.9	9 600*	49.9	50.1	10 900*	53.7	51.0	12 300*	59.7	52.1	15 300*				24.0
25.0	39.5	46.8	8 200*	42.7	47.8	8 900*	47.0	49.2	10 000*	51.0	50.2	11 300*	57.2	51.4	13 900*				25.0
26.0	36.0	45.4	7 600*	39.4	46.6	8 200*	44.0	48.1	9 200*	48.2	49.3	10 400*	54.6	50.7	12 700*				26.0
27.0	32.1	43.9	7 100*	35.8	45.3	7 600*	40.8	47.0	8 600*	45.3	48.3	9 600*	51.9	49.9	11 700*				27.0
28.0	27.7	42.0	6 600*	31.9	43.7	7 100*	37.4	45.7	7 900*	42.2	47.2	8 900*	49.1	49.0	10 800*	55.3	50.1	13 100*	28.0
29.0	22.5	39.7	6 100*	27.5	41.9	6 600*	33.7	44.2	7 400*	38.8	46.0	8 200*	46.2	48.1	9 900*	52.6	49.3	12 000*	29.0
30.0	15.6	36.6	5 700*	22.3	39.6	6 100*	29.5	42.5	6 800*	35.2	44.6	7 600*	43.2	47.0	9 200*	49.9	48.5	11 100*	30.0
31.0							24.7	40.4	6 400*	31.3	43.0	7 100*	39.9	45.8	8 500*	47.0	47.6	10 200*	31.0
32.0							18.6	37.7	5 900*	26.8	41.1	6 600*	36.4	44.5	7 900*	44.0	46.5	9 400*	32.0
33.0										21.3	38.7	6 200*	32.6	43.0	7 300*	40.8	45.4	8 800*	33.0
34.0													28.3	41.2	6 800*	37.4	44.1	8 100*	34.0
35.0													23.2	39.0	6 400*	33.7	42.6	7 600*	35.0
36.0													16.6	36.0	5 900*	29.5	40.9	7 000*	36.0
37.0																24.7	38.8	6 500*	37.0
38.0																18.6	36.1	6 100*	38.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**27.4m (90 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib**

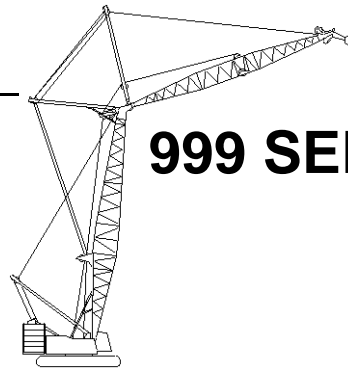
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.4	53.1	26 700*																10.7
11.0	73.6	53.0	25 500*																11.0
12.0	71.1	52.6	22 000*																12.0
13.0	68.6	52.2	19 000*	71.0	52.5	22 000*													13.0
14.0	66.0	51.8	16 600*	68.4	52.1	18 900*													14.0
15.0	63.3	51.3	14 700*	65.8	51.7	16 600*													15.0
16.0	60.6	50.7	13 100*	63.2	51.2	14 700*	67.0	51.7	17 700*										16.0
17.0	57.8	50.1	11 800*	60.5	50.6	13 100*	64.3	51.2	15 500*										17.0
18.0	54.9	49.4	10 700*	57.7	50.0	11 800*	61.6	50.7	13 800*										18.0
19.0	51.9	48.6	9 700*	54.8	49.3	10 700*	58.9	50.1	12 400*	62.8	50.7	14 600*							19.0
20.0	48.8	47.7	8 800*	51.8	48.5	9 700*	56.0	49.4	11 200*	60.0	50.1	13 000*							20.0
21.0	45.5	46.7	8 100*	48.6	47.6	8 800*	53.1	48.6	10 200*	57.2	49.4	11 700*							21.0
22.0	42.0	45.6	7 400*	45.3	46.6	8 100*	50.0	47.8	9 200*	54.3	48.7	10 600*	60.9	49.7	13 600*				22.0
23.0	38.2	44.4	6 800*	41.8	45.5	7 400*	46.8	46.9	8 400*	51.3	47.9	9 600*	58.1	49.1	12 200*				23.0
24.0	34.0	42.9	6 200*	38.0	44.2	6 800*	43.3	45.8	7 700*	48.1	47.0	8 800*	55.3	48.4	11 000*				24.0
25.0	29.3	41.2	5 800*	33.8	42.8	6 200*	39.7	44.6	7 100*	44.8	46.0	8 000*	52.3	47.6	10 000*				25.0
26.0	23.7	39.0	5 300*	29.1	41.0	5 800*	35.7	43.2	6 500*	41.2	44.9	7 400*	49.2	46.7	9 100*	56.0	47.8	11 300*	26.0
27.0	16.3	36.0	4 900*	23.4	38.9	5 300*	31.2	41.6	6 000*	37.4	43.6	6 800*	45.9	45.8	8 300*	53.1	47.0	10 300*	27.0
28.0							26.0	39.7	5 500*	33.1	42.1	6 200*	42.4	44.7	7 600*	50.0	46.2	9 400*	28.0
29.0										28.3	40.3	5 800*	38.6	43.5	7 000*	46.8	45.3	8 600*	29.0
30.0										22.4	38.0	5 300*	34.5	42.0	6 500*	43.3	44.2	7 900*	30.0
31.0													29.9	40.3	6 000*	39.7	43.0	7 200*	31.0
32.0													24.5	38.3	5 500*	35.7	41.6	6 700*	32.0
33.0													17.3	35.4	5 100*	31.2	40.0	6 100*	33.0
34.0																26.0	38.1	5 700*	34.0
35.0																19.5	35.5	5 200*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



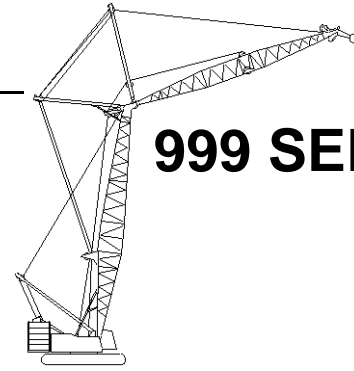
## 999 SERIES 3

### 27.4m (90 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.9	55.8	26 700*																12.2
13.0	71.1	55.5	24 100*																13.0
14.0	68.8	55.1	21 000*	71.0	55.4	23 900*													14.0
15.0	66.5	54.7	18 700*	68.7	55.0	21 000*													15.0
16.0	64.2	54.2	16 700*	66.4	54.6	18 600*													16.0
17.0	61.8	53.6	15 000*	64.1	54.1	16 700*	67.4	54.6	19 700*										17.0
18.0	59.4	53.0	13 600*	61.7	53.5	15 000*	65.1	54.1	17 600*										18.0
19.0	56.9	52.4	12 400*	59.3	52.9	13 600*	62.7	53.6	15 800*	66.1	54.1	18 500*							19.0
20.0	54.3	51.7	11 300*	56.7	52.3	12 400*	60.3	53.0	14 300*	63.7	53.6	16 500*							20.0
21.0	51.6	50.9	10 400*	54.2	51.6	11 400*	57.8	52.4	13 000*	61.3	53.0	14 900*							21.0
22.0	48.8	50.0	9 600*	51.5	50.8	10 400*	55.3	51.7	11 900*	58.9	52.4	13 500*							22.0
23.0	45.9	49.0	8 800*	48.7	49.9	9 500*	52.6	50.9	10 800*	56.3	51.8	12 400*	62.1	52.6	15 500*				23.0
24.0	42.8	48.0	8 100*	45.8	48.9	8 800*	49.9	50.1	10 000*	53.7	51.0	11 300*	59.7	52.1	14 100*				24.0
25.0	39.5	46.8	7 500*	42.7	47.8	8 100*	47.0	49.2	9 200*	51.0	50.2	10 400*	57.2	51.4	12 800*				25.0
26.0	36.0	45.4	7 000*	39.4	46.6	7 500*	44.0	48.1	8 500*	48.2	49.3	9 500*	54.6	50.7	11 700*				26.0
27.0	32.1	43.9	6 500*	35.8	45.3	7 000*	40.8	47.0	7 800*	45.3	48.3	8 800*	51.9	49.9	10 700*				27.0
28.0	27.7	42.0	6 000*	31.9	43.7	6 500*	37.4	45.7	7 300*	42.2	47.2	8 200*	49.1	49.0	9 900*	55.3	50.1	12 100*	28.0
29.0	22.5	39.7	5 600*	27.5	41.9	6 000*	33.7	44.2	6 700*	38.8	46.0	7 500*	46.2	48.1	9 100*	52.6	49.3	11 000*	29.0
30.0	15.6	36.6	4 700*	22.3	39.6	5 600*	29.5	42.5	6 200*	35.2	44.6	7 000*	43.2	47.0	8 400*	49.9	48.5	10 200*	30.0
31.0							24.7	40.4	5 800*	31.3	43.0	6 500*	39.9	45.8	7 800*	47.0	47.6	9 400*	31.0
32.0							18.6	37.7	5 400*	26.8	41.1	6 000*	36.4	44.5	7 300*	44.0	46.5	8 700*	32.0
33.0										21.3	38.7	5 600*	32.6	43.0	6 700*	40.8	45.4	8 000*	33.0
34.0													28.3	41.2	6 300*	37.4	44.1	7 400*	34.0
35.0													23.2	39.0	5 800*	33.7	42.6	6 900*	35.0
36.0													16.6	36.0	5 400*	29.5	40.9	6 400*	36.0
37.0																24.7	38.8	6 000*	37.0
38.0																18.6	36.1	5 600*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

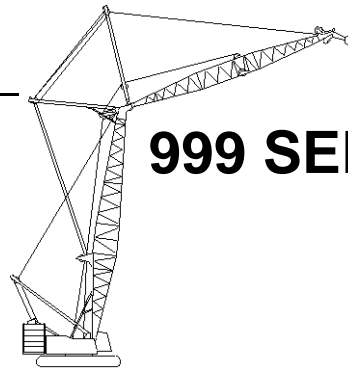
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 27.4m (90 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.6	59.0	26 700*																12.2
13.0	73.0	58.7	25 500*																13.0
14.0	71.0	58.4	23 900*	73.0	58.6	26 000*													14.0
15.0	69.0	58.0	21 700*	71.0	58.3	23 700*													15.0
16.0	67.0	57.6	19 500*	68.9	57.9	21 500*													16.0
17.0	64.9	57.1	17 700*	66.9	57.5	19 500*	69.8	57.9	22 400*										17.0
18.0	62.8	56.6	16 000*	64.8	57.0	17 700*	67.8	57.5	20 400*										18.0
19.0	60.6	56.0	14 600*	62.7	56.5	16 000*	65.7	57.0	18 500*										19.0
20.0	58.4	55.4	13 400*	60.5	55.9	14 600*	63.6	56.5	16 700*	66.5	57.0	19 300*							20.0
21.0	56.1	54.7	12 300*	58.3	55.3	13 400*	61.4	56.0	15 300*	64.4	56.5	17 500*							21.0
22.0	53.7	54.0	11 300*	56.0	54.6	12 300*	59.2	55.4	14 000*	62.3	56.0	15 900*							22.0
23.0	51.3	53.2	10 500*	53.6	53.9	11 300*	57.0	54.7	12 800*	60.1	55.4	14 600*							23.0
24.0	48.8	52.3	9 700*	51.2	53.1	10 500*	54.7	54.0	11 800*	57.9	54.8	13 300*							24.0
25.0	46.2	51.3	9 000*	48.7	52.2	9 700*	52.3	53.2	10 900*	55.6	54.1	12 300*	60.8	55.0	15 100*				25.0
26.0	43.5	50.3	8 400*	46.1	51.2	9 000*	49.8	52.4	10 100*	53.3	53.3	11 300*	58.6	54.4	13 800*				26.0
27.0	40.6	49.1	7 800*	43.4	50.2	8 400*	47.2	51.5	9 400*	50.8	52.5	10 500*	56.4	53.7	12 700*				27.0
28.0	37.5	47.9	7 200*	40.5	49.0	7 800*	44.5	50.5	8 700*	48.3	51.6	9 700*	54.0	53.0	11 700*				28.0
29.0	34.2	46.4	6 700*	37.4	47.7	7 300*	41.7	49.3	8 100*	45.7	50.6	9 000*	51.6	52.2	10 800*	57.0	53.1	13 000*	29.0
30.0	30.6	44.8	6 300*	34.0	46.3	6 800*	38.7	48.1	7 500*	42.9	49.6	8 400*	49.1	51.3	10 000*	54.7	52.4	12 100*	30.0
31.0	26.4	42.8	5 900*	30.4	44.6	6 300*	35.5	46.7	7 000*	40.0	48.4	7 900*	46.5	50.4	9 300*	52.3	51.6	11 200*	31.0
32.0	21.6	40.4	5 500*	26.2	42.6	5 900*	32.0	45.2	6 600*	36.9	47.1	7 300*	43.8	49.4	8 700*	49.8	50.8	10 300*	32.0
33.0				21.3	40.2	5 500*	28.1	43.3	6 100*	33.5	45.6	6 800*	41.0	48.2	8 100*	47.2	49.9	9 600*	33.0
34.0							23.5	41.2	5 800*	29.8	43.9	6 400*	37.9	46.9	7 600*	44.5	48.9	8 900*	34.0
35.0							17.9	38.3	5 400*	25.5	41.9	6 000*	34.6	45.5	7 100*	41.7	47.8	8 300*	35.0
36.0										20.4	39.4	5 600*	31.0	43.9	6 600*	38.7	46.5	7 800*	36.0
37.0													27.0	42.0	6 200*	35.5	45.1	7 300*	37.0
38.0													22.2	39.7	5 800*	32.0	43.6	6 800*	38.0
39.0													16.1	36.6	5 400*	28.1	41.7	6 400*	39.0
40.0																23.5	39.6	6 000*	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

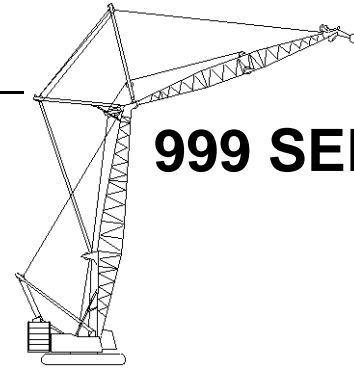
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 27.4m (90 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	73.4	61.7	23 800*																13.7
14.0	72.8	61.6	23 100*																14.0
15.0	71.0	61.3	20 900*																15.0
16.0	69.2	60.9	19 000*	70.9	61.2	20 900*													16.0
17.0	67.3	60.5	17 300*	69.1	60.8	18 900*													17.0
18.0	65.4	60.0	15 800*	67.2	60.4	17 200*													18.0
19.0	63.5	59.5	14 600*	65.4	59.9	15 800*	68.0	60.4	18 000*										19.0
20.0	61.6	58.9	13 400*	63.4	59.4	14 600*	66.2	59.9	16 400*										20.0
21.0	59.6	58.4	12 500*	61.5	58.8	13 400*	64.3	59.4	15 100*										21.0
22.0	57.5	57.7	11 600*	59.5	58.3	12 400*	62.3	58.9	13 900*	65.1	59.4	15 700*							22.0
23.0	55.5	57.0	10 700*	57.5	57.6	11 500*	60.3	58.3	12 800*	63.1	58.9	14 400*							23.0
24.0	53.3	56.3	9 900*	55.4	56.9	10 700*	58.3	57.7	11 900*	61.2	58.3	13 300*							24.0
25.0	51.1	55.5	9 100*	53.2	56.2	9 900*	56.3	57.1	11 000*	59.2	57.7	12 300*							25.0
26.0	48.8	54.6	8 400*	51.0	55.4	9 100*	54.1	56.3	10 300*	57.1	57.1	11 400*	61.8	57.9	13 600*				26.0
27.0	46.5	53.7	7 800*	48.7	54.5	8 400*	52.0	55.5	9 500*	55.0	56.4	10 600*	59.8	57.4	12 600*				27.0
28.0	44.0	52.6	7 200*	46.4	53.5	7 800*	49.7	54.7	8 800*	52.9	55.6	9 900*	57.8	56.7	11 700*				28.0
29.0	41.4	51.5	6 600*	43.9	52.5	7 200*	47.4	53.8	8 100*	50.7	54.8	9 200*	55.7	56.0	10 800*				29.0
30.0	38.7	50.3	6 200*	41.3	51.4	6 700*	45.0	52.8	7 500*	48.4	53.9	8 500*	53.6	55.3	10 100*				30.0
31.0	35.8	48.9	5 700*	38.6	50.1	6 200*	42.4	51.7	7 000*	46.0	53.0	7 800*	51.4	54.5	9 400*	56.3	55.5	11 100*	31.0
32.0	32.7	47.4	5 300*	35.7	48.8	5 800*	39.8	50.5	6 500*	43.5	51.9	7 300*	49.1	53.6	8 800*	54.2	54.7	10 300*	32.0
33.0	29.2	45.6	4 900*	32.5	47.2	5 300*	36.9	49.2	6 000*	40.9	50.8	6 700*	46.8	52.7	8 200*	52.0	53.9	9 600*	33.0
34.0	25.3	43.6	4 500*	29.1	45.5	4 900*	33.9	47.7	5 500*	38.1	49.5	6 300*	44.3	51.7	7 600*	49.7	53.1	9 000*	34.0
35.0	20.7	41.1	4 200*	25.1	43.4	4 600*	30.6	46.1	5 100*	35.2	48.1	5 800*	41.8	50.6	7 000*	47.4	52.2	8 400*	35.0
36.0				20.5	40.9	4 200*	26.9	44.2	4 800*	32.0	46.5	5 400*	39.0	49.3	6 500*	45.0	51.2	7 800*	36.0
37.0							22.6	41.9	4 400*	28.5	44.7	5 000*	36.2	48.0	6 000*	42.4	50.1	7 200*	37.0
38.0							17.3	38.9	4 100*	24.5	42.6	4 600*	33.1	46.5	5 600*	39.8	48.9	6 700*	38.0
39.0										19.7	40.0	4 300*	29.6	44.8	5 200*	36.9	47.6	6 200*	39.0
40.0													25.8	42.8	4 800*	33.9	46.1	5 800*	40.0
42.0													15.6	37.2	4 100*	26.9	42.6	5 000*	42.0
44.0																17.3	37.3	4 300*	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

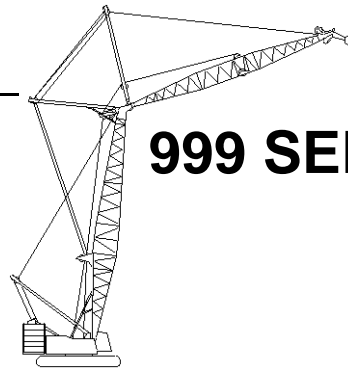
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 27.4m (90 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	74.8	64.9	25 900*																13.7
14.0	74.3	64.8	25 200*																14.0
15.0	72.7	64.5	22 900*																15.0
16.0	71.0	64.1	20 800*	72.6	64.4	22 800*													16.0
17.0	69.3	63.8	19 100*	70.9	64.0	20 800*													17.0
18.0	67.6	63.3	17 600*	69.3	63.7	19 000*													18.0
19.0	65.9	62.9	16 200*	67.6	63.3	17 500*													19.0
20.0	64.2	62.4	15 100*	65.8	62.8	16 200*	68.3	63.3	18 200*										20.0
21.0	62.4	61.9	14 000*	64.1	62.3	15 000*	66.6	62.8	16 800*										21.0
22.0	60.6	61.3	13 000*	62.3	61.8	13 900*	64.8	62.3	15 500*										22.0
23.0	58.7	60.7	12 100*	60.5	61.2	13 000*	63.1	61.8	14 400*	65.6	62.3	16 000*							23.0
24.0	56.9	60.0	11 300*	58.7	60.6	12 100*	61.3	61.3	13 400*	63.8	61.8	14 900*							24.0
25.0	54.9	59.3	10 600*	56.8	59.9	11 300*	59.4	60.7	12 500*	62.0	61.3	13 800*							25.0
26.0	53.0	58.6	10 000*	54.8	59.2	10 600*	57.6	60.1	11 700*	60.2	60.7	12 900*							26.0
27.0	50.9	57.8	9 300*	52.9	58.5	10 000*	55.7	59.4	10 900*	58.4	60.1	12 000*							27.0
28.0	48.9	56.9	8 700*	50.8	57.7	9 300*	53.7	58.6	10 200*	56.5	59.4	11 200*	60.8	60.3	13 200*				28.0
29.0	46.7	56.0	8 100*	48.8	56.8	8 700*	51.7	57.8	9 600*	54.5	58.7	10 500*	59.0	59.7	12 300*				29.0
30.0	44.5	54.9	7 500*	46.6	55.8	8 100*	49.7	57.0	9 000*	52.6	57.9	9 900*	57.1	59.1	11 500*				30.0
31.0	42.1	53.8	7 000*	44.4	54.8	7 600*	47.5	56.1	8 500*	50.5	57.1	9 300*	55.2	58.4	10 700*				31.0
32.0	39.7	52.7	6 500*	42.0	53.7	7 100*	45.3	55.1	7 900*	48.4	56.2	8 700*	53.2	57.6	10 100*	57.6	58.5	11 700*	32.0
33.0	37.1	51.3	6 100*	39.6	52.5	6 600*	43.0	54.0	7 400*	46.2	55.3	8 200*	51.2	56.8	9 500*	55.7	57.8	10 900*	33.0
34.0	34.3	49.9	5 700*	37.0	51.2	6 100*	40.6	52.9	6 900*	44.0	54.2	7 700*	49.1	55.9	8 900*	53.7	57.0	10 300*	34.0
35.0	31.3	48.3	5 300*	34.2	49.8	5 700*	38.1	51.6	6 400*	41.6	53.1	7 100*	47.0	55.0	8 400*	51.7	56.2	9 600*	35.0
36.0	28.1	46.5	5 000*	31.2	48.1	5 400*	35.4	50.2	6 000*	39.2	51.9	6 700*	44.7	54.0	7 900*	49.7	55.4	9 100*	36.0
37.0	24.4	44.3	4 600*	27.9	46.3	5 000*	32.5	48.7	5 600*	36.5	50.6	6 300*	42.4	52.9	7 400*	47.5	54.5	8 500*	37.0
38.0	20.0	41.7	4 300*	24.2	44.2	4 700*	29.4	46.9	5 200*	33.7	49.1	5 800*	40.0	51.7	6 900*	45.3	53.5	8 000*	38.0
39.0				19.8	41.5	4 100*	25.8	44.9	4 900*	30.7	47.4	5 400*	37.4	50.4	6 500*	43.0	52.4	7 600*	39.0
40.0							21.8	42.6	4 500*	27.4	45.6	5 100*	34.7	49.0	6 100*	40.6	51.3	7 100*	40.0
42.0										19.0	40.6	4 300*	28.5	45.6	5 300*	35.4	48.6	6 300*	42.0
44.0													20.6	41.0	4 400*	29.4	45.3	5 500*	44.0
46.0																21.8	41.0	4 600*	46.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

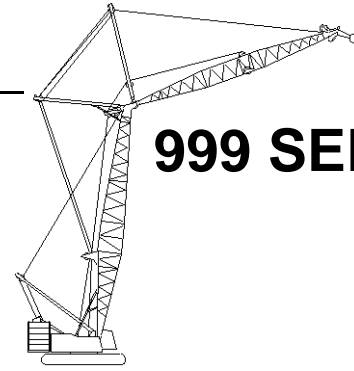
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 27.4m (90 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
13.7	76.0	68.1	25 000*																13.7	
14.0	75.6	68.0	24 400*																14.0	
15.0	74.1	67.7	22 100*																15.0	
16.0	72.5	67.4	20 100*																16.0	
17.0	71.0	67.0	18 400*	72.5	67.3	20 100*													17.0	
18.0	69.4	66.6	16 900*	70.9	66.9	18 400*													18.0	
19.0	67.9	66.2	15 600*	69.4	66.5	16 900*													19.0	
20.0	66.3	65.8	14 400*	67.8	66.1	15 500*	70.0	66.5	17 500*										20.0	
21.0	64.7	65.3	13 300*	66.2	65.7	14 300*	68.5	66.1	16 100*										21.0	
22.0	63.1	64.8	12 300*	64.6	65.2	13 300*	66.9	65.7	14 800*										22.0	
23.0	61.4	64.3	11 400*	63.0	64.7	12 300*	65.3	65.3	13 700*	67.6	65.6	15 300*							23.0	
24.0	59.7	63.7	10 700*	61.3	64.2	11 400*	63.7	64.8	12 700*	66.0	65.2	14 200*							24.0	
25.0	58.0	63.0	9 900*	59.6	63.6	10 600*	62.0	64.2	11 800*	64.4	64.7	13 100*							25.0	
26.0	56.3	62.4	9 200*	57.9	62.9	9 900*	60.4	63.6	11 000*	62.7	64.2	12 200*							26.0	
27.0	54.5	61.7	8 600*	56.2	62.3	9 200*	58.7	63.0	10 200*	61.1	63.6	11 300*							27.0	
28.0	52.7	60.9	8 100*	54.4	61.5	8 600*	56.9	62.4	9 500*	59.4	63.0	10 500*							28.0	
29.0	50.8	60.1	7 500*	52.6	60.8	8 000*	55.2	61.7	8 900*	57.7	62.4	9 800*	61.6	63.2	11 600*				29.0	
30.0	48.9	59.2	7 000*	50.7	60.0	7 500*	53.4	60.9	8 300*	55.9	61.7	9 200*	59.9	62.7	10 800*				30.0	
31.0	46.9	58.3	6 600*	48.8	59.1	7 000*	51.5	60.1	7 700*	54.1	61.0	8 600*	58.2	62.0	10 100*				31.0	
32.0	44.8	57.3	6 200*	46.8	58.2	6 600*	49.6	59.3	7 300*	52.3	60.2	8 000*	56.5	61.4	9 400*				32.0	
33.0	42.7	56.2	5 700*	44.7	57.1	6 100*	47.6	58.4	6 800*	50.4	59.4	7 500*	54.7	60.7	8 800*				33.0	
34.0	40.5	55.0	5 400*	42.6	56.1	5 700*	45.6	57.4	6 400*	48.5	58.5	7 000*	52.9	59.9	8 200*	56.9	60.8	9 500*	34.0	
35.0	38.1	53.8	5 000*	40.4	54.9	5 400*	43.5	56.4	5 900*	46.5	57.6	6 500*	51.0	59.1	7 600*	55.2	60.1	8 900*	35.0	
36.0	35.7	52.4	4 700*	38.0	53.6	5 000*	41.3	55.2	5 500*	44.4	56.6	6 100*	49.1	58.2	7 200*	53.4	59.3	8 300*	36.0	
37.0	33.0	50.9	4 400*	35.5	52.2	4 700*	39.0	54.0	5 200*	42.2	55.5	5 700*	47.1	57.3	6 700*	51.5	58.5	7 800*	37.0	
38.0	30.2	49.2	4 100*	32.9	50.7	4 400*	36.6	52.7	4 800*	40.0	54.3	5 300*	45.1	56.3	6 300*	49.6	57.7	7 300*	38.0	
39.0	27.1	47.3	3 800*	30.0	49.0	4 100*	34.1	51.2	4 500*	37.6	53.0	5 000*	43.0	55.2	5 900*	47.7	56.8	6 800*	39.0	
40.0	23.5	45.1	3 400*	26.9	47.1	3 800*	31.3	49.6	4 200*	35.1	51.6	4 700*	40.7	54.1	5 500*	45.6	55.8	6 400*	40.0	
42.0				19.2	42.2	2 600*	24.9	45.7	3 500*	29.6	48.3	4 100*	36.0	51.5	4 800*	41.3	53.6	5 600*	42.0	
44.0							16.3	40.1	2 400*	22.8	44.1	3 200*	30.5	48.3	4 200*	36.6	51.1	4 900*	44.0	
46.0														24.0	44.3	3 400*	31.3	48.0	4 300*	46.0
48.0																	25.0	44.1	3 500*	48.0
50.0																	16.3	38.5	2 300*	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 30.5m (100 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

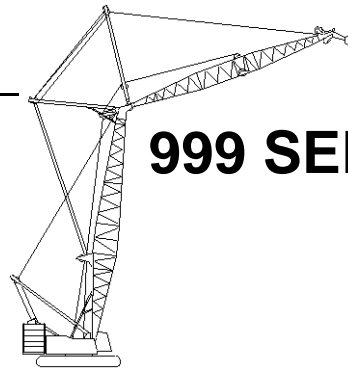
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
10.7	57.5	42.8	17 100*																10.7
11.0	55.5	42.5	16 300*																11.0
12.0	49.3	41.6	13 900*																12.0
13.0	42.3	40.6	11 900*	49.7	41.6	14 100*													13.0
14.0	34.0	39.1	10 400*	42.7	40.6	12 000*	53.4	42.0	15 400*										14.0
15.0	23.0	37.0	9 100*	34.6	39.2	10 500*	46.9	41.0	13 200*										15.0
16.0							39.5	39.8	11 300*	50.7	41.3	14 500*							16.0
17.0										43.9	40.3	12 300*	60.2	41.9	19 200*b				17.0
18.0										36.0	39.0	10 800*	54.3	41.2	16 000*				18.0
19.0													48.0	40.3	13 500*				19.0
20.0													40.8	39.1	11 700*				20.0
21.0													32.1	37.6	10 300*				21.0
22.0																44.6	38.9	12 800*	22.0
23.0																36.9	37.6	11 000*	23.0
24.0																27.0	35.8	9 600*	24.0

### 30.5m (100 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
9.1	65.9	43.7	19 600*b																9.1
10.0	61.3	43.2	16 700*																10.0
11.0	55.5	42.5	13 400*	61.6	43.2	16 800*													11.0
12.0	49.3	41.6	11 400*	55.9	42.5	13 800*													12.0
13.0	42.3	40.6	9 800*	49.7	41.6	11 500*	59.3	42.7	15 600*										13.0
14.0	34.0	39.1	8 500*	42.7	40.6	9 900*	53.4	42.0	12 800*	62.5	42.8	17 400*b							14.0
15.0	23.0	37.0	7 400*	34.6	39.2	8 600*	46.9	41.0	10 900*	56.8	42.1	14 300*							15.0
16.0							39.5	39.8	9 400*	50.7	41.3	11 900*							16.0
17.0										43.9	40.3	10 200*	60.2	41.9	16 100*				17.0
18.0										36.0	39.0	8 800*	54.3	41.2	13 400*				18.0
19.0													48.0	40.3	11 200*				19.0
20.0													40.8	39.1	9 700*				20.0
21.0													32.1	37.6	8 400*				21.0
22.0																44.6	38.9	10 600*	22.0
23.0																36.9	37.6	9 100*	23.0
24.0																27.0	35.8	7 900*	24.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 30.5m (100 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	65.9	43.7	17 400*b																9.1
10.0	61.3	43.2	14 700*																10.0
11.0	55.5	42.5	11 900*	61.6	43.2	14 800*													11.0
12.0	49.3	41.6	10 000*	55.9	42.5	12 200*													12.0
13.0	42.3	40.6	8 600*	49.7	41.6	10 100*	59.3	42.7	13 800*										13.0
14.0	34.0	39.1	7 400*	42.7	40.6	8 700*	53.4	42.0	11 200*	62.5	42.8	15 400*							14.0
15.0	23.0	37.0	6 400*	34.6	39.2	7 500*	46.9	41.0	9 500*	56.8	42.1	12 600*							15.0
16.0							39.5	39.8	8 200*	50.7	41.3	10 400*							16.0
17.0										43.9	40.3	8 900*	60.2	41.9	14 200*				17.0
18.0										36.0	39.0	7 700*	54.3	41.2	11 800*				18.0
19.0													48.0	40.3	9 800*				19.0
20.0													40.8	39.1	8 400*				20.0
21.0													32.1	37.6	7 300*				21.0
22.0																44.6	38.9	9 200*	22.0
23.0																36.9	37.6	7 900*	23.0
24.0																27.0	35.8	6 800*	24.0

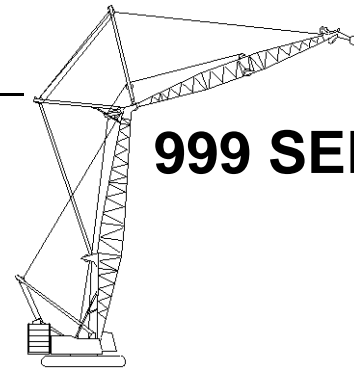
### 30.5m (100 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	71.1	47.0	25 200*b																9.1
10.0	67.6	46.7	21 300*																10.0
11.0	63.3	46.1	17 200*	67.8	46.6	21 400*													11.0
12.0	58.9	45.5	14 500*	63.6	46.1	17 600*													12.0
13.0	54.2	44.8	12 500*	59.2	45.5	14 600*	66.1	46.2	20 000*										13.0
14.0	49.2	43.9	10 900*	54.5	44.8	12 600*	61.8	45.7	16 300*										14.0
15.0	43.8	42.9	9 600*	49.5	43.9	11 000*	57.3	45.0	13 800*										15.0
16.0	37.6	41.6	8 400*	44.1	42.9	9 600*	52.5	44.3	11 900*	59.9	45.1	15 400*							16.0
17.0	30.4	40.0	7 500*	38.0	41.7	8 500*	47.3	43.3	10 500*	55.3	44.4	13 000*							17.0
18.0	20.8	37.7	6 700*	30.9	40.1	7 600*	41.7	42.2	9 200*	50.3	43.6	11 300*							18.0
19.0							35.2	40.9	8 200*	45.0	42.6	9 900*	58.0	44.2	14 500*				19.0
20.0										39.1	41.4	8 800*	53.2	43.5	12 300*				20.0
21.0										32.1	39.9	7 800*	48.2	42.6	10 700*				21.0
22.0													42.6	41.5	9 400*				22.0
23.0													36.3	40.2	8 400*	50.9	42.2	11 600*	23.0
24.0													28.8	38.5	7 400*	45.6	41.2	10 200*	24.0
25.0																39.7	40.1	8 900*	25.0
26.0																32.9	38.6	7 900*	26.0
27.0																24.3	36.5	7 000*	27.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 30.5m (100 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

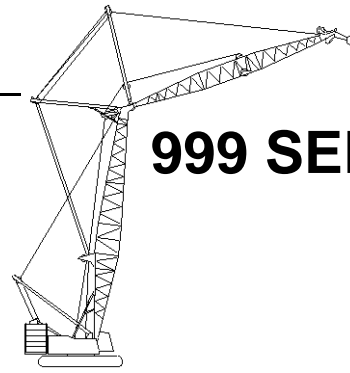
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	65.9	43.7	16 200*	71.5	44.1	21 400* <sup>b</sup>													9.1
10.0	61.3	43.2	13 800*	67.0	43.7	17 600*													10.0
11.0	55.5	42.5	11 200*	61.6	43.2	13 600*													11.0
12.0	49.3	41.6	9 400*	55.9	42.5	11 200*													12.0
13.0	42.3	40.6	8 100*	49.7	41.6	9 500*	59.3	42.7	12 900*										13.0
14.0	34.0	39.1	7 100*	42.7	40.6	8 200*	53.4	42.0	10 500*	62.5	42.8	14 400*							14.0
15.0	23.0	37.0	6 200*	34.6	39.2	7 100*	46.9	41.0	9 000*	56.8	42.1	11 800*							15.0
16.0							39.5	39.8	7 700*	50.7	41.3	9 800*							16.0
17.0										43.9	40.3	8 400*	60.2	41.9	13 200*				17.0
18.0										36.0	39.0	7 300*	54.3	41.2	11 000*				18.0
19.0													48.0	40.3	9 200*				19.0
20.0													40.8	39.1	8 000*				20.0
21.0													32.1	37.6	6 900*				21.0
22.0																44.6	38.9	8 700*	22.0
23.0																36.9	37.6	7 500*	23.0
24.0																27.0	35.8	6 500*	24.0

## 30.5m (100 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	71.1	47.0	22 600*																9.1
10.0	67.6	46.7	19 100*																10.0
11.0	63.3	46.1	15 400*	67.8	46.6	19 300*													11.0
12.0	58.9	45.5	13 000*	63.6	46.1	15 800*													12.0
13.0	54.2	44.8	11 200*	59.2	45.5	13 100*	66.1	46.2	17 900*										13.0
14.0	49.2	43.9	9 800*	54.5	44.8	11 300*	61.8	45.7	14 600*										14.0
15.0	43.8	42.9	8 500*	49.5	43.9	9 900*	57.3	45.0	12 400*										15.0
16.0	37.6	41.6	7 600*	44.1	42.9	8 700*	52.5	44.3	10 700*	59.9	45.1	13 800*							16.0
17.0	30.4	40.0	6 700*	38.0	41.7	7 700*	47.3	43.3	9 400*	55.3	44.4	11 700*							17.0
18.0	20.8	37.7	6 000*	30.9	40.1	6 800*	41.7	42.2	8 200*	50.3	43.6	10 100*							18.0
19.0							35.2	40.9	7 300*	45.0	42.6	8 900*	58.0	44.2	13 000*				19.0
20.0										39.1	41.4	7 800*	53.2	43.5	11 000*				20.0
21.0										32.1	39.9	7 000*	48.2	42.6	9 600*				21.0
22.0													42.6	41.5	8 400*				22.0
23.0													36.3	40.2	7 500*	50.9	42.2	10 400*	23.0
24.0													28.8	38.5	6 600*	45.6	41.2	9 100*	24.0
25.0																39.7	40.1	8 000*	25.0
26.0																32.9	38.6	7 100*	26.0
27.0																24.3	36.5	6 300*	27.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

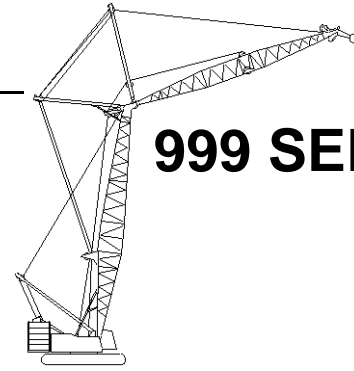
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 30.5m (100 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	74.4	50.2	26 700*																9.1
10.0	71.5	50.0	23 400*																10.0
11.0	68.1	49.5	19 700*	71.7	49.9	24 400*													11.0
12.0	64.6	49.1	16 600*	68.3	49.5	20 100*													12.0
13.0	61.0	48.5	14 200*	64.9	49.0	16 700*													13.0
14.0	57.3	47.9	12 400*	61.2	48.5	14 400*	66.9	49.1	18 700*										14.0
15.0	53.3	47.1	10 900*	57.5	47.8	12 600*	63.4	48.6	15 900*										15.0
16.0	49.2	46.2	9 700*	53.6	47.1	11 000*	59.7	48.0	13 600*										16.0
17.0	44.7	45.2	8 700*	49.4	46.2	9 800*	55.9	47.3	12 000*	61.8	48.1	14 900*							17.0
18.0	39.8	44.1	7 800*	45.0	45.2	8 700*	51.9	46.6	10 500*	58.1	47.5	13 000*							18.0
19.0	34.3	42.6	7 000*	40.1	44.1	7 800*	47.6	45.6	9 400*	54.2	46.7	11 300*							19.0
20.0	27.8	40.8	6 300*	34.7	42.7	7 100*	43.0	44.6	8 400*	50.1	45.9	10 100*	60.3	47.2	14 100*				20.0
21.0	19.2	38.3	5 700*	28.3	40.9	6 400*	38.0	43.3	7 500*	45.7	44.9	8 900*	56.5	46.5	12 300*				21.0
22.0							32.2	41.8	6 800*	40.9	43.8	8 000*	52.5	45.8	10 800*				22.0
23.0										35.6	42.4	7 200*	48.3	44.9	9 600*				23.0
24.0										29.4	40.7	6 500*	43.8	43.9	8 600*				24.0
25.0													38.8	42.6	7 700*	50.5	44.5	10 300*	25.0
26.0													33.1	41.1	7 000*	46.2	43.6	9 200*	26.0
27.0													26.4	39.2	6 300*	41.4	42.4	8 200*	27.0
28.0																36.2	41.1	7 400*	28.0
29.0																30.1	39.4	6 600*	29.0
30.0																22.4	37.2	6 000*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

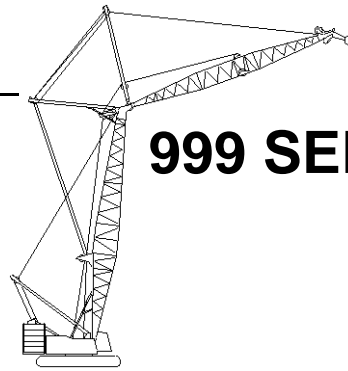
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 30.5m (100 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	72.4	53.0	26 700*																10.7
11.0	71.4	52.8	25 500*																11.0
12.0	68.5	52.4	21 800*																12.0
13.0	65.6	52.0	18 700*	68.7	52.4	22 200*													13.0
14.0	62.5	51.4	16 300*	65.7	51.9	18 900*													14.0
15.0	59.4	50.8	14 400*	62.7	51.4	16 400*													15.0
16.0	56.1	50.2	12 700*	59.6	50.8	14 500*	64.5	51.5	18 000*										16.0
17.0	52.7	49.4	11 400*	56.3	50.1	12 900*	61.4	51.0	15 700*	66.2	51.5	19 500*							17.0
18.0	49.1	48.5	10 300*	52.9	49.4	11 500*	58.2	50.4	13 800*	63.2	51.0	17 000*							18.0
19.0	45.4	47.6	9 300*	49.4	48.5	10 300*	54.9	49.6	12 300*	60.1	50.4	14 900*							19.0
20.0	41.3	46.4	8 400*	45.6	47.5	9 400*	51.5	48.8	11 100*	56.8	49.8	13 200*							20.0
21.0	36.8	45.1	7 700*	41.6	46.4	8 500*	47.8	47.9	10 000*	53.5	49.0	11 800*							21.0
22.0	31.8	43.6	7 000*	37.1	45.1	7 700*	44.0	46.9	9 000*	49.9	48.2	10 600*	58.7	49.5	14 300*				22.0
23.0	25.9	41.6	6 400*	32.2	43.6	7 000*	39.8	45.7	8 200*	46.2	47.3	9 600*	55.4	48.9	12 700*				23.0
24.0	18.1	38.9	5 900*	26.3	41.7	6 400*	35.1	44.3	7 500*	42.2	46.2	8 700*	52.0	48.1	11 400*				24.0
25.0							29.9	42.7	6 800*	37.9	44.9	7 900*	48.4	47.2	10 200*				25.0
26.0										33.0	43.4	7 200*	44.6	46.2	9 300*	53.8	47.6	12 100*	26.0
27.0										27.3	41.5	6 600*	40.4	45.0	8 400*	50.3	46.8	10 900*	27.0
28.0													35.9	43.7	7 700*	46.6	45.9	9 800*	28.0
29.0													30.7	42.0	7 000*	42.6	44.8	8 900*	29.0
30.0													24.6	40.0	6 400*	38.3	43.5	8 100*	30.0
31.0																33.5	42.1	7 400*	31.0
32.0																27.9	40.3	6 700*	32.0
33.0																20.9	37.9	6 100*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

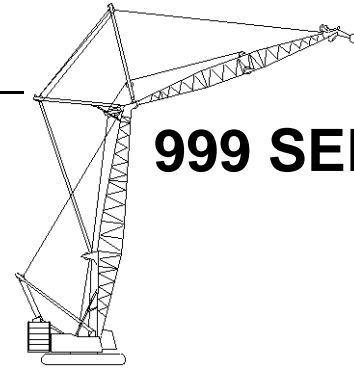
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 30.5m (100 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.7	56.2	26 700*																10.7
11.0	73.9	56.1	26 400*																11.0
12.0	71.4	55.7	25 500*																12.0
13.0	68.8	55.3	23 200*	71.5	55.7	25 100*													13.0
14.0	66.2	54.9	19 700*	69.0	55.3	23 000*													14.0
15.0	63.6	54.4	17 500*	66.4	54.8	20 100*													15.0
16.0	60.9	53.8	15 600*	63.8	54.3	17 600*	67.9	54.9	21 800*										16.0
17.0	58.1	53.2	14 000*	61.1	53.8	15 800*	65.3	54.4	19 000*										17.0
18.0	55.2	52.5	12 600*	58.3	53.1	14 100*	62.7	53.9	16 900*										18.0
19.0	52.2	51.7	11 500*	55.4	52.5	12 800*	59.9	53.3	15 100*	64.2	53.9	18 200*							19.0
20.0	49.1	50.8	10 500*	52.4	51.7	11 600*	57.1	52.7	13 600*	61.5	53.4	16 200*							20.0
21.0	45.8	49.9	9 600*	49.3	50.8	10 600*	54.2	52.0	12 300*	58.7	52.8	14 500*							21.0
22.0	42.4	48.8	8 800*	46.0	49.9	9 700*	51.2	51.1	11 200*	55.9	52.1	13 100*							22.0
23.0	38.6	47.6	8 100*	42.6	48.8	8 900*	48.0	50.2	10 300*	52.9	51.3	11 900*	60.4	52.5	15 500*				23.0
24.0	34.5	46.1	7 400*	38.8	47.6	8 100*	44.6	49.2	9 400*	49.8	50.5	10 800*	57.5	51.9	14 000*				24.0
25.0	29.8	44.4	6 900*	34.7	46.1	7 500*	41.1	48.1	8 600*	46.6	49.6	9 900*	54.7	51.2	12 600*				25.0
26.0	24.4	42.3	6 300*	30.1	44.5	6 900*	37.2	46.8	7 900*	43.1	48.5	9 100*	51.6	50.4	11 500*				26.0
27.0	17.2	39.5	5 900*	24.7	42.4	6 400*	32.9	45.3	7 300*	39.4	47.3	8 400*	48.5	49.5	10 500*				27.0
28.0							28.0	43.5	6 700*	35.4	45.9	7 700*	45.2	48.5	9 600*	53.2	49.9	12 200*	28.0
29.0										30.9	44.3	7 100*	41.6	47.4	8 800*	50.1	49.1	11 100*	29.0
30.0										25.7	42.3	6 500*	37.8	46.1	8 100*	46.9	48.2	10 100*	30.0
31.0													33.6	44.6	7 500*	43.5	47.1	9 300*	31.0
32.0													28.8	42.9	6 900*	39.8	45.9	8 500*	32.0
33.0													23.1	40.7	6 400*	35.8	44.6	7 900*	33.0
34.0																31.4	43.0	7 200*	34.0
35.0																26.3	41.0	6 700*	35.0
36.0																19.8	38.5	6 200*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

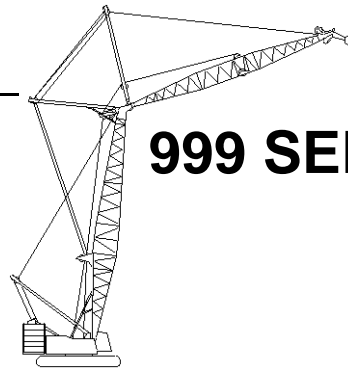
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 30.5m (100 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.1	58.9	26 700*																12.2
13.0	71.3	58.6	26 200*																13.0
14.0	69.1	58.2	25 300*	71.4	58.5	26 300*													14.0
15.0	66.8	57.8	22 600*	69.2	58.1	24 900*													15.0
16.0	64.4	57.3	20 100*	66.9	57.7	22 900*													16.0
17.0	62.1	56.7	18 100*	64.6	57.2	20 300*	68.2	57.8	24 300*										17.0
18.0	59.6	56.2	16 400*	62.2	56.7	18 300*	65.9	57.3	21 800*										18.0
19.0	57.1	55.5	14 900*	59.8	56.1	16 600*	63.6	56.8	19 500*										19.0
20.0	54.6	54.8	13 600*	57.3	55.5	15 100*	61.2	56.3	17 600*	65.0	56.9	20 800*							20.0
21.0	51.9	54.0	12 500*	54.7	54.8	13 800*	58.8	55.7	16 000*	62.6	56.3	18 800*							21.0
22.0	49.1	53.1	11 500*	52.0	54.0	12 600*	56.2	55.0	14 600*	60.2	55.8	16 900*							22.0
23.0	46.2	52.2	10 600*	49.3	53.1	11 600*	53.6	54.3	13 300*	57.7	55.1	15 400*							23.0
24.0	43.2	51.1	9 800*	46.4	52.2	10 700*	50.9	53.4	12 300*	55.1	54.4	14 100*							24.0
25.0	39.9	49.9	9 000*	43.3	51.1	9 900*	48.1	52.6	11 300*	52.5	53.7	12 900*	59.1	54.9	16 400*				25.0
26.0	36.4	48.6	8 400*	40.1	49.9	9 100*	45.1	51.6	10 400*	49.7	52.8	11 900*	56.6	54.2	14 900*				26.0
27.0	32.6	47.1	7 800*	36.6	48.6	8 500*	42.0	50.5	9 700*	46.9	51.9	11 000*	54.0	53.5	13 700*				27.0
28.0	28.2	45.3	7 300*	32.8	47.1	7 900*	38.7	49.2	8 900*	43.8	50.8	10 100*	51.3	52.7	12 600*				28.0
29.0	23.1	43.1	6 800*	28.5	45.3	7 300*	35.1	47.8	8 300*	40.6	49.7	9 400*	48.5	51.8	11 600*	55.4	53.0	14 400*	29.0
30.0	16.5	40.1	6 300*	23.5	43.1	6 800*	31.1	46.2	7 700*	37.2	48.4	8 700*	45.6	50.8	10 700*	52.7	52.2	13 200*	30.0
31.0							26.5	44.3	7 200*	33.4	46.9	8 100*	42.5	49.7	9 900*	50.0	51.4	12 200*	31.0
32.0							21.1	41.9	6 700*	29.2	45.2	7 500*	39.2	48.5	9 200*	47.2	50.5	11 200*	32.0
33.0										24.4	43.1	7 000*	35.7	47.1	8 500*	44.2	49.5	10 400*	33.0
34.0													31.7	45.6	7 900*	41.0	48.3	9 600*	34.0
35.0													27.3	43.7	7 400*	37.6	47.0	8 900*	35.0
36.0													22.0	41.4	6 900*	33.8	45.6	8 300*	36.0
37.0																29.7	43.9	7 700*	37.0
38.0																24.9	41.8	7 200*	38.0
39.0																18.9	39.1	6 700*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

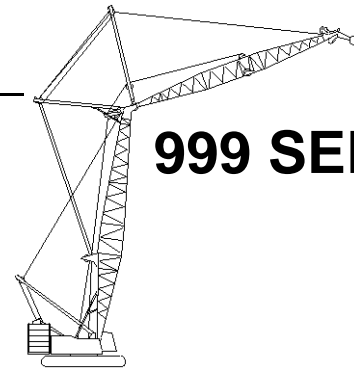
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 30.5m (100 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.7	56.2	26 700*																10.7
11.0	73.9	56.1	26 000*																11.0
12.0	71.4	55.7	23 800*																12.0
13.0	68.8	55.3	21 200*	71.5	55.7	24 200*													13.0
14.0	66.2	54.9	18 300*	69.0	55.3	21 100*													14.0
15.0	63.6	54.4	16 100*	66.4	54.8	18 500*													15.0
16.0	60.9	53.8	14 400*	63.8	54.3	16 300*	67.9	54.9	20 100*										16.0
17.0	58.1	53.2	13 000*	61.1	53.8	14 600*	65.3	54.4	17 600*										17.0
18.0	55.2	52.5	11 700*	58.3	53.1	13 100*	62.7	53.9	15 600*										18.0
19.0	52.2	51.7	10 600*	55.4	52.5	11 800*	59.9	53.3	14 000*	64.2	53.9	16 800*							19.0
20.0	49.1	50.8	9 700*	52.4	51.7	10 700*	57.1	52.7	12 600*	61.5	53.4	14 900*							20.0
21.0	45.8	49.9	8 800*	49.3	50.8	9 700*	54.2	52.0	11 400*	58.7	52.8	13 400*							21.0
22.0	42.4	48.8	8 100*	46.0	49.9	8 900*	51.2	51.1	10 300*	55.9	52.1	12 100*							22.0
23.0	38.6	47.6	7 400*	42.6	48.8	8 200*	48.0	50.2	9 400*	52.9	51.3	11 000*	60.4	52.5	14 300*				23.0
24.0	34.5	46.1	6 800*	38.8	47.6	7 500*	44.6	49.2	8 600*	49.8	50.5	10 000*	57.5	51.9	12 900*				24.0
25.0	29.8	44.4	6 300*	34.7	46.1	6 900*	41.1	48.1	7 900*	46.6	49.6	9 100*	54.7	51.2	11 700*				25.0
26.0	24.4	42.3	5 800*	30.1	44.5	6 300*	37.2	46.8	7 300*	43.1	48.5	8 400*	51.6	50.4	10 600*				26.0
27.0	17.2	39.5	5 400*	24.7	42.4	5 900*	32.9	45.3	6 700*	39.4	47.3	7 700*	48.5	49.5	9 700*				27.0
28.0							28.0	43.5	6 200*	35.4	45.9	7 100*	45.2	48.5	8 900*	53.2	49.9	11 200*	28.0
29.0										30.9	44.3	6 500*	41.6	47.4	8 100*	50.1	49.1	10 200*	29.0
30.0										25.7	42.3	6 000*	37.8	46.1	7 500*	46.9	48.2	9 300*	30.0
31.0													33.6	44.6	6 900*	43.5	47.1	8 600*	31.0
32.0													28.8	42.9	6 300*	39.8	45.9	7 900*	32.0
33.0													23.1	40.7	5 900*	35.8	44.6	7 200*	33.0
34.0																31.4	43.0	6 700*	34.0
35.0																26.3	41.0	6 200*	35.0
36.0																19.8	38.5	5 700*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

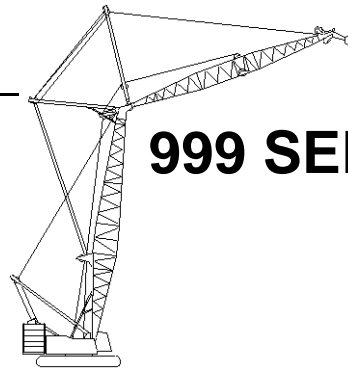
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 30.5m (100 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.1	58.9	26 700*																12.2
13.0	71.3	58.6	25 300*																13.0
14.0	69.1	58.2	23 400*	71.4	58.5	26 000*													14.0
15.0	66.8	57.8	20 800*	69.2	58.1	23 400*													15.0
16.0	64.4	57.3	18 400*	66.9	57.7	20 900*													16.0
17.0	62.1	56.7	16 500*	64.6	57.2	18 600*	68.2	57.8	22 400*										17.0
18.0	59.6	56.2	15 000*	62.2	56.7	16 700*	65.9	57.3	20 000*										18.0
19.0	57.1	55.5	13 600*	59.8	56.1	15 100*	63.6	56.8	17 800*										19.0
20.0	54.6	54.8	12 400*	57.3	55.5	13 800*	61.2	56.3	16 100*	65.0	56.9	19 100*							20.0
21.0	51.9	54.0	11 400*	54.7	54.8	12 600*	58.8	55.7	14 600*	62.6	56.3	17 200*							21.0
22.0	49.1	53.1	10 500*	52.0	54.0	11 500*	56.2	55.0	13 300*	60.2	55.8	15 500*							22.0
23.0	46.2	52.2	9 600*	49.3	53.1	10 600*	53.6	54.3	12 200*	57.7	55.1	14 100*							23.0
24.0	43.2	51.1	8 900*	46.4	52.2	9 800*	50.9	53.4	11 200*	55.1	54.4	12 900*							24.0
25.0	39.9	49.9	8 300*	43.3	51.1	9 000*	48.1	52.6	10 300*	52.5	53.7	11 800*	59.1	54.9	15 000*				25.0
26.0	36.4	48.6	7 700*	40.1	49.9	8 300*	45.1	51.6	9 500*	49.7	52.8	10 900*	56.6	54.2	13 700*				26.0
27.0	32.6	47.1	7 100*	36.6	48.6	7 700*	42.0	50.5	8 800*	46.9	51.9	10 000*	54.0	53.5	12 500*				27.0
28.0	28.2	45.3	6 600*	32.8	47.1	7 200*	38.7	49.2	8 100*	43.8	50.8	9 200*	51.3	52.7	11 500*				28.0
29.0	23.1	43.1	6 100*	28.5	45.3	6 600*	35.1	47.8	7 500*	40.6	49.7	8 600*	48.5	51.8	10 600*	55.4	53.0	13 100*	29.0
30.0	16.5	40.1	5 700*	23.5	43.1	6 200*	31.1	46.2	7 000*	37.2	48.4	8 000*	45.6	50.8	9 800*	52.7	52.2	12 100*	30.0
31.0							26.5	44.3	6 500*	33.4	46.9	7 400*	42.5	49.7	9 100*	50.0	51.4	11 100*	31.0
32.0							21.1	41.9	6 100*	29.2	45.2	6 800*	39.2	48.5	8 400*	47.2	50.5	10 200*	32.0
33.0										24.4	43.1	6 400*	35.7	47.1	7 800*	44.2	49.5	9 500*	33.0
34.0													31.7	45.6	7 200*	41.0	48.3	8 800*	34.0
35.0													27.3	43.7	6 700*	37.6	47.0	8 100*	35.0
36.0													22.0	41.4	6 300*	33.8	45.6	7 600*	36.0
37.0																29.7	43.9	7 000*	37.0
38.0																24.9	41.8	6 600*	38.0
39.0																18.9	39.1	6 100*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

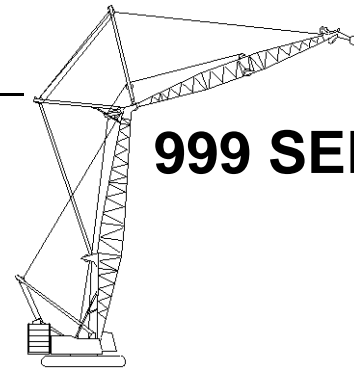
## 30.5m (100 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.7	56.2	26 700*																10.7
11.0	73.9	56.1	25 600*																11.0
12.0	71.4	55.7	22 300*																12.0
13.0	68.8	55.3	19 400*	71.5	55.7	22 800*													13.0
14.0	66.2	54.9	16 900*	69.0	55.3	19 500*													14.0
15.0	63.6	54.4	15 000*	66.4	54.8	17 000*													15.0
16.0	60.9	53.8	13 300*	63.8	54.3	15 100*	67.9	54.9	18 600*										16.0
17.0	58.1	53.2	11 900*	61.1	53.8	13 500*	65.3	54.4	16 200*										17.0
18.0	55.2	52.5	10 800*	58.3	53.1	12 100*	62.7	53.9	14 400*										18.0
19.0	52.2	51.7	9 800*	55.4	52.5	10 900*	59.9	53.3	12 900*	64.2	53.9	15 600*							19.0
20.0	49.1	50.8	8 900*	52.4	51.7	9 900*	57.1	52.7	11 700*	61.5	53.4	13 800*							20.0
21.0	45.8	49.9	8 100*	49.3	50.8	9 000*	54.2	52.0	10 500*	58.7	52.8	12 400*							21.0
22.0	42.4	48.8	7 400*	46.0	49.9	8 200*	51.2	51.1	9 600*	55.9	52.1	11 200*							22.0
23.0	38.6	47.6	6 800*	42.6	48.8	7 500*	48.0	50.2	8 700*	52.9	51.3	10 200*	60.4	52.5	13 300*				23.0
24.0	34.5	46.1	6 300*	38.8	47.6	6 900*	44.6	49.2	8 000*	49.8	50.5	9 200*	57.5	51.9	12 000*				24.0
25.0	29.8	44.4	5 800*	34.7	46.1	6 300*	41.1	48.1	7 300*	46.6	49.6	8 400*	54.7	51.2	10 800*				25.0
26.0	24.4	42.3	5 400*	30.1	44.5	5 800*	37.2	46.8	6 700*	43.1	48.5	7 700*	51.6	50.4	9 800*				26.0
27.0	17.2	39.5	5 000*	24.7	42.4	5 400*	32.9	45.3	6 200*	39.4	47.3	7 100*	48.5	49.5	8 900*				27.0
28.0							28.0	43.5	5 700*	35.4	45.9	6 500*	45.2	48.5	8 200*	53.2	49.9	10 400*	28.0
29.0										30.9	44.3	6 000*	41.6	47.4	7 500*	50.1	49.1	9 400*	29.0
30.0										25.7	42.3	5 500*	37.8	46.1	6 900*	46.9	48.2	8 600*	30.0
31.0													33.6	44.6	6 300*	43.5	47.1	7 900*	31.0
32.0													28.8	42.9	5 800*	39.8	45.9	7 300*	32.0
33.0													23.1	40.7	5 400*	35.8	44.6	6 700*	33.0
34.0																31.4	43.0	6 200*	34.0
35.0																26.3	41.0	5 700*	35.0
36.0																19.8	38.5	5 300*	36.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

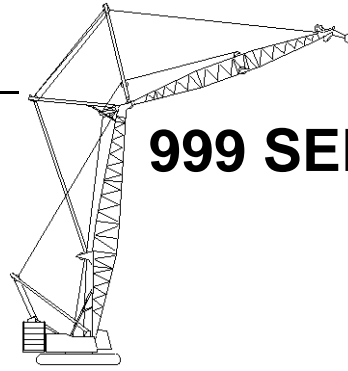
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 30.5m (100 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.1	58.9	26 700*																12.2
13.0	71.3	58.6	24 300*																13.0
14.0	69.1	58.2	21 400*	71.4	58.5	24 700*													14.0
15.0	66.8	57.8	19 000*	69.2	58.1	21 700*													15.0
16.0	64.4	57.3	16 900*	66.9	57.7	19 100*													16.0
17.0	62.1	56.7	15 200*	64.6	57.2	17 100*	68.2	57.8	20 600*										17.0
18.0	59.6	56.2	13 800*	62.2	56.7	15 400*	65.9	57.3	18 400*										18.0
19.0	57.1	55.5	12 500*	59.8	56.1	13 900*	63.6	56.8	16 400*										19.0
20.0	54.6	54.8	11 400*	57.3	55.5	12 600*	61.2	56.3	14 800*	65.0	56.9	17 500*							20.0
21.0	51.9	54.0	10 400*	54.7	54.8	11 500*	58.8	55.7	13 400*	62.6	56.3	15 800*							21.0
22.0	49.1	53.1	9 600*	52.0	54.0	10 600*	56.2	55.0	12 200*	60.2	55.8	14 300*							22.0
23.0	46.2	52.2	8 800*	49.3	53.1	9 700*	53.6	54.3	11 200*	57.7	55.1	13 000*							23.0
24.0	43.2	51.1	8 100*	46.4	52.2	8 900*	50.9	53.4	10 300*	55.1	54.4	11 900*							24.0
25.0	39.9	49.9	7 500*	43.3	51.1	8 200*	48.1	52.6	9 500*	52.5	53.7	10 900*	59.1	54.9	13 900*				25.0
26.0	36.4	48.6	7 000*	40.1	49.9	7 600*	45.1	51.6	8 700*	49.7	52.8	10 000*	56.6	54.2	12 600*				26.0
27.0	32.6	47.1	6 500*	36.6	48.6	7 100*	42.0	50.5	8 100*	46.9	51.9	9 200*	54.0	53.5	11 500*				27.0
28.0	28.2	45.3	6 000*	32.8	47.1	6 600*	38.7	49.2	7 500*	43.8	50.8	8 500*	51.3	52.7	10 600*				28.0
29.0	23.1	43.1	5 600*	28.5	45.3	6 100*	35.1	47.8	6 900*	40.6	49.7	7 900*	48.5	51.8	9 700*	55.4	53.0	12 100*	29.0
30.0	16.5	40.1	5 200*	23.5	43.1	5 700*	31.1	46.2	6 400*	37.2	48.4	7 300*	45.6	50.8	9 000*	52.7	52.2	11 100*	30.0
31.0							26.5	44.3	6 000*	33.4	46.9	6 800*	42.5	49.7	8 300*	50.0	51.4	10 200*	31.0
32.0							21.1	41.9	5 500*	29.2	45.2	6 300*	39.2	48.5	7 700*	47.2	50.5	9 400*	32.0
33.0										24.4	43.1	5 800*	35.7	47.1	7 100*	44.2	49.5	8 700*	33.0
34.0													31.7	45.6	6 600*	41.0	48.3	8 100*	34.0
35.0													27.3	43.7	6 100*	37.6	47.0	7 500*	35.0
36.0													22.0	41.4	5 700*	33.8	45.6	6 900*	36.0
37.0																29.7	43.9	6 500*	37.0
38.0																24.9	41.8	6 000*	38.0
39.0																18.9	39.1	5 600*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

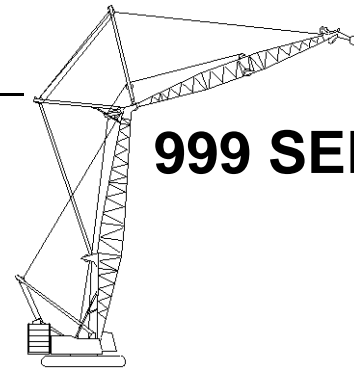
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 30.5m (100 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.8	62.1	26 700*																12.2
13.0	73.3	61.8	25 700*																13.0
14.0	71.3	61.5	24 300*	73.4	61.8	26 100*													14.0
15.0	69.2	61.1	22 000*	71.4	61.4	24 200*													15.0
16.0	67.2	60.7	19 800*	69.4	61.0	22 100*													16.0
17.0	65.1	60.2	17 900*	67.3	60.6	20 000*	70.5	61.1	23 300*										17.0
18.0	63.0	59.7	16 200*	65.2	60.1	18 100*	68.5	60.7	21 200*										18.0
19.0	60.8	59.1	14 800*	63.1	59.6	16 400*	66.5	60.2	19 200*										19.0
20.0	58.6	58.5	13 500*	61.0	59.1	14 900*	64.4	59.7	17 400*	67.6	60.2	20 300*							20.0
21.0	56.3	57.8	12 400*	58.7	58.5	13 600*	62.2	59.2	15 800*	65.6	59.8	18 400*							21.0
22.0	54.0	57.1	11 400*	56.5	57.8	12 500*	60.0	58.6	14 400*	63.5	59.3	16 700*							22.0
23.0	51.6	56.3	10 500*	54.1	57.1	11 600*	57.8	58.0	13 300*	61.3	58.7	15 300*							23.0
24.0	49.1	55.4	9 800*	51.7	56.3	10 700*	55.5	57.3	12 200*	59.1	58.1	14 000*							24.0
25.0	46.5	54.5	9 000*	49.3	55.4	9 900*	53.2	56.6	11 300*	56.8	57.4	12 900*							25.0
26.0	43.8	53.5	8 400*	46.7	54.5	9 100*	50.7	55.7	10 400*	54.5	56.7	11 900*	60.4	57.8	14 800*				26.0
27.0	40.9	52.3	7 800*	44.0	53.4	8 500*	48.2	54.9	9 600*	52.1	56.0	11 000*	58.2	57.2	13 600*				27.0
28.0	37.9	51.0	7 300*	41.1	52.3	7 900*	45.6	53.9	9 000*	49.7	55.1	10 100*	55.9	56.5	12 500*				28.0
29.0	34.6	49.6	6 800*	38.1	51.0	7 400*	42.8	52.8	8 300*	47.1	54.2	9 400*	53.5	55.8	11 600*				29.0
30.0	31.0	48.0	6 300*	34.8	49.6	6 900*	39.9	51.6	7 700*	44.4	53.2	8 700*	51.1	55.0	10 700*				30.0
31.0	26.9	46.1	5 900*	31.2	48.0	6 400*	36.7	50.3	7 200*	41.6	52.0	8 100*	48.6	54.1	9 900*	54.8	55.3	12 100*	31.0
32.0	22.1	43.8	5 500*	27.2	46.1	5 900*	33.3	48.8	6 700*	38.5	50.8	7 600*	46.0	53.1	9 200*	52.4	54.5	11 200*	32.0
33.0	16.0	40.6	4 900*	22.4	43.8	5 600*	29.6	47.1	6 300*	35.3	49.4	7 100*	43.2	52.1	8 600*	49.9	53.7	10 400*	33.0
34.0							25.3	45.0	5 900*	31.8	47.8	6 600*	40.3	50.9	8 000*	47.3	52.8	9 600*	34.0
35.0							20.2	42.5	5 500*	27.8	46.0	6 100*	37.2	49.6	7 500*	44.7	51.8	9 000*	35.0
36.0										23.3	43.8	5 700*	33.9	48.1	7 000*	41.8	50.7	8 400*	36.0
37.0													30.2	46.5	6 500*	38.9	49.4	7 800*	37.0
38.0													26.0	44.5	6 100*	35.6	48.1	7 300*	38.0
39.0													21.1	42.1	5 700*	32.2	46.5	6 800*	39.0
40.0																28.3	44.7	6 400*	40.0
42.0																18.2	39.7	5 600*	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

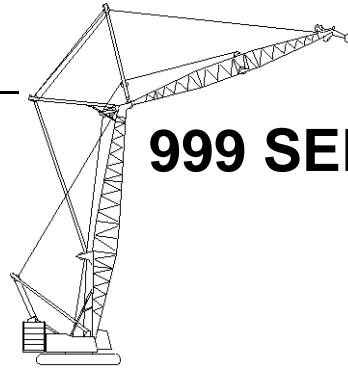
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 30.5m (100 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	73.5	64.8	24 100*																13.7
14.0	73.0	64.7	23 500*																14.0
15.0	71.2	64.3	21 200*																15.0
16.0	69.4	64.0	19 200*	71.3	64.3	21 400*													16.0
17.0	67.5	63.5	17 500*	69.5	63.9	19 300*													17.0
18.0	65.6	63.1	16 100*	67.6	63.5	17 600*													18.0
19.0	63.7	62.6	14 800*	65.8	63.0	16 100*	68.7	63.6	18 700*										19.0
20.0	61.8	62.1	13 600*	63.8	62.5	14 900*	66.9	63.1	17 000*										20.0
21.0	59.8	61.5	12 600*	61.9	62.0	13 700*	65.0	62.7	15 600*										21.0
22.0	57.8	60.8	11 700*	59.9	61.4	12 700*	63.0	62.1	14 400*	66.1	62.7	16 400*							22.0
23.0	55.7	60.2	10 800*	57.9	60.8	11 800*	61.1	61.6	13 300*	64.1	62.2	15 100*							23.0
24.0	53.6	59.4	10 000*	55.8	60.1	10 900*	59.1	61.0	12 300*	62.2	61.6	13 900*							24.0
25.0	51.4	58.6	9 200*	53.7	59.4	10 100*	57.0	60.3	11 400*	60.2	61.1	12 800*							25.0
26.0	49.1	57.7	8 500*	51.5	58.6	9 300*	54.9	59.6	10 600*	58.2	60.4	11 900*							26.0
27.0	46.7	56.8	7 800*	49.2	57.7	8 600*	52.8	58.9	9 800*	56.1	59.8	11 000*							27.0
28.0	44.3	55.8	7 200*	46.9	56.8	7 900*	50.6	58.0	9 100*	54.0	59.0	10 300*	59.4	60.2	12 400*				28.0
29.0	41.7	54.7	6 700*	44.4	55.8	7 300*	48.3	57.2	8 400*	51.8	58.3	9 600*	57.4	59.5	11 500*				29.0
30.0	39.0	53.4	6 200*	41.9	54.7	6 800*	45.9	56.2	7 800*	49.6	57.4	8 900*	55.3	58.8	10 700*				30.0
31.0	36.1	52.1	5 700*	39.2	53.4	6 300*	43.4	55.1	7 200*	47.3	56.5	8 200*	53.1	58.1	10 000*				31.0
32.0	33.0	50.6	5 300*	36.3	52.1	5 800*	40.8	54.0	6 600*	44.8	55.5	7 600*	50.9	57.3	9 300*	56.4	58.3	11 100*	32.0
33.0	29.6	48.9	4 900*	33.2	50.6	5 400*	38.0	52.7	6 100*	42.3	54.4	7 000*	48.6	56.4	8 700*	54.2	57.6	10 400*	33.0
34.0	25.8	46.9	4 500*	29.8	48.9	5 000*	35.0	51.3	5 700*	39.6	53.2	6 500*	46.3	55.4	8 000*	52.1	56.8	9 700*	34.0
35.0	21.3	44.4	4 200*	26.0	46.9	4 600*	31.8	49.7	5 300*	36.8	51.9	6 000*	43.8	54.4	7 400*	49.8	56.0	9 000*	35.0
36.0	15.5	41.2	3 300*	21.6	44.5	4 300*	28.3	47.9	4 900*	33.7	50.4	5 600*	41.2	53.3	6 900*	47.5	55.1	8 400*	36.0
37.0							24.3	45.8	4 500*	30.4	48.7	5 200*	38.5	52.0	6 400*	45.1	54.1	7 800*	37.0
38.0							19.4	43.2	4 200*	26.7	46.8	4 800*	35.5	50.6	5 900*	42.6	53.0	7 300*	38.0
39.0										22.3	44.5	4 400*	32.4	49.1	5 500*	39.9	51.8	6 700*	39.0
40.0													28.9	47.3	5 100*	37.1	50.5	6 300*	40.0
42.0													20.3	42.7	4 400*	30.7	47.4	5 400*	42.0
44.0																22.8	43.2	4 600*	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

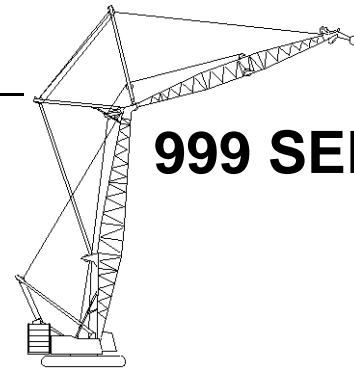
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 30.5m (100 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	75.0	68.0	26 200*																13.7
14.0	74.5	67.9	25 500*																14.0
15.0	72.9	67.6	23 100*																15.0
16.0	71.2	67.2	21 100*																16.0
17.0	69.5	66.8	19 300*	71.3	67.2	21 300*													17.0
18.0	67.8	66.4	17 800*	69.6	66.8	19 500*													18.0
19.0	66.1	66.0	16 400*	67.9	66.4	17 900*													19.0
20.0	64.3	65.5	15 200*	66.2	65.9	16 500*	68.9	66.4	18 800*										20.0
21.0	62.6	65.0	14 100*	64.5	65.5	15 300*	67.2	66.0	17 300*										21.0
22.0	60.8	64.4	13 100*	62.7	64.9	14 200*	65.5	65.6	16 000*										22.0
23.0	58.9	63.8	12 300*	60.9	64.4	13 200*	63.7	65.1	14 900*	66.5	65.6	16 700*							23.0
24.0	57.1	63.2	11 500*	59.0	63.8	12 300*	61.9	64.5	13 800*	64.7	65.1	15 500*							24.0
25.0	55.1	62.5	10 700*	57.2	63.1	11 500*	60.1	63.9	12 900*	63.0	64.6	14 400*							25.0
26.0	53.2	61.7	10 000*	55.3	62.4	10 800*	58.3	63.3	12 000*	61.2	64.0	13 400*							26.0
27.0	51.2	60.9	9 400*	53.3	61.7	10 100*	56.4	62.7	11 200*	59.3	63.4	12 500*							27.0
28.0	49.1	60.0	8 700*	51.3	60.9	9 500*	54.5	61.9	10 500*	57.5	62.8	11 700*							28.0
29.0	46.9	59.1	8 100*	49.2	60.0	8 900*	52.5	61.2	9 900*	55.6	62.1	10 900*	60.4	63.1	13 000*				29.0
30.0	44.7	58.1	7 500*	47.1	59.1	8 200*	50.4	60.3	9 200*	53.6	61.3	10 200*	58.6	62.5	12 100*				30.0
31.0	42.4	57.0	7 000*	44.8	58.1	7 600*	48.3	59.5	8 700*	51.6	60.6	9 600*	56.7	61.9	11 400*				31.0
32.0	39.9	55.8	6 500*	42.5	57.0	7 100*	46.2	58.5	8 100*	49.5	59.7	9 000*	54.8	61.2	10 700*				32.0
33.0	37.4	54.5	6 100*	40.1	55.8	6 600*	43.9	57.5	7 500*	47.4	58.8	8 500*	52.8	60.4	10 000*				33.0
34.0	34.6	53.1	5 700*	37.5	54.5	6 200*	41.5	56.3	7 000*	45.2	57.8	8 000*	50.8	59.6	9 400*	55.8	60.7	11 000*	34.0
35.0	31.7	51.5	5 300*	34.8	53.1	5 800*	39.0	55.1	6 600*	42.9	56.7	7 400*	48.7	58.7	8 800*	53.8	59.9	10 300*	35.0
36.0	28.4	49.7	4 900*	31.9	51.5	5 400*	36.4	53.8	6 100*	40.5	55.6	6 900*	46.5	57.7	8 300*	51.8	59.1	9 700*	36.0
37.0	24.8	47.6	4 600*	28.6	49.7	5 000*	33.6	52.3	5 700*	37.9	54.3	6 400*	44.2	56.7	7 800*	49.8	58.3	9 100*	37.0
38.0	20.5	45.1	4 300*	25.0	47.7	4 700*	30.6	50.6	5 300*	35.2	52.9	6 000*	41.9	55.6	7 300*	47.6	57.4	8 600*	38.0
39.0				20.8	45.2	4 400*	27.2	48.7	5 000*	32.3	51.3	5 600*	39.4	54.4	6 800*	45.4	56.4	8 100*	39.0
40.0							23.4	46.5	4 600*	29.2	49.6	5 300*	36.8	53.1	6 400*	43.1	55.3	7 600*	40.0
42.0										21.5	45.2	4 500*	31.1	50.0	5 600*	38.2	52.9	6 600*	42.0
44.0													24.0	46.0	4 900*	32.6	50.0	5 500*	44.0
46.0																26.0	46.3	4 600*	46.0
48.0																17.0	40.9	3 600*	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

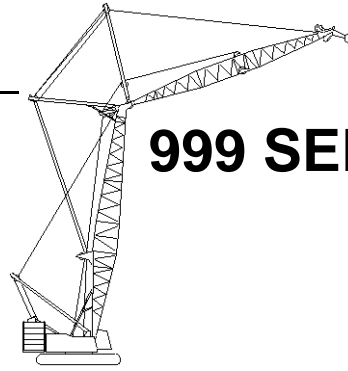
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 30.5m (100 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	73.9	70.7	21 800*																15.2
16.0	72.7	70.4	20 400*																16.0
17.0	71.2	70.1	18 600*	72.8	70.4	20 500*													17.0
18.0	69.6	69.7	17 100*	71.3	70.0	18 800*													18.0
19.0	68.0	69.3	15 700*	69.7	69.7	17 200*													19.0
20.0	66.5	68.9	14 500*	68.1	69.3	15 800*	70.6	69.7	18 100*										20.0
21.0	64.9	68.4	13 400*	66.6	68.8	14 600*	69.1	69.3	16 600*										21.0
22.0	63.2	67.9	12 500*	65.0	68.4	13 500*	67.5	68.9	15 300*										22.0
23.0	61.6	67.4	11 600*	63.3	67.9	12 500*	65.9	68.5	14 100*										23.0
24.0	59.9	66.8	10 800*	61.7	67.3	11 600*	64.3	68.0	13 100*										24.0
25.0	58.2	66.2	10 000*	60.0	66.7	10 800*	62.7	67.4	12 200*	65.2	68.0	13 700*							25.0
26.0	56.5	65.5	9 400*	58.3	66.1	10 100*	61.0	66.9	11 300*	63.6	67.5	12 700*							26.0
27.0	54.7	64.8	8 700*	56.6	65.5	9 400*	59.3	66.3	10 500*	61.9	66.9	11 800*							27.0
28.0	52.9	64.0	8 100*	54.8	64.7	8 800*	57.6	65.7	9 800*	60.3	66.4	11 000*							28.0
29.0	51.0	63.2	7 600*	53.0	64.0	8 200*	55.8	65.0	9 200*	58.6	65.8	10 200*	62.9	66.6	12 300*				29.0
30.0	49.1	62.3	7 100*	51.1	63.2	7 700*	54.0	64.3	8 600*	56.8	65.1	9 500*	61.3	66.1	11 500*				30.0
31.0	47.1	61.4	6 700*	49.2	62.3	7 200*	52.2	63.5	8 000*	55.1	64.4	8 900*	59.6	65.5	10 700*				31.0
32.0	45.0	60.4	6 200*	47.2	61.4	6 700*	50.3	62.6	7 500*	53.3	63.7	8 300*	57.9	64.9	9 900*				32.0
33.0	42.9	59.4	5 800*	45.2	60.4	6 300*	48.4	61.8	7 000*	51.4	62.9	7 800*	56.1	64.2	9 300*				33.0
34.0	40.7	58.2	5 400*	43.1	59.3	5 800*	46.4	60.8	6 500*	49.5	62.0	7 300*	54.3	63.5	8 600*				34.0
35.0	38.4	56.9	5 000*	40.8	58.2	5 500*	44.3	59.8	6 100*	47.5	61.1	6 800*	52.5	62.7	8 100*				35.0
36.0	35.9	55.6	4 700*	38.5	56.9	5 100*	42.2	58.7	5 700*	45.5	60.1	6 300*	50.6	61.9	7 600*	55.3	63.0	9 000*	36.0
37.0	33.3	54.1	4 400*	36.1	55.6	4 800*	39.9	57.5	5 300*	43.4	59.1	6 000*	48.7	61.0	7 100*	53.4	62.2	8 400*	37.0
38.0	30.5	52.4	4 100*	33.5	54.1	4 500*	37.5	56.2	5 000*	41.2	57.9	5 600*	46.7	60.1	6 600*	51.6	61.4	7 800*	38.0
39.0	27.4	50.5	3 800*	30.7	52.4	4 200*	35.0	54.8	4 600*	38.9	56.7	5 200*	44.6	59.0	6 200*	49.7	60.6	7 300*	39.0
40.0	23.9	48.4	3 400*	27.6	50.6	3 800*	32.3	53.2	4 300*	36.5	55.3	4 900*	42.5	58.0	5 800*	47.7	59.7	6 800*	40.0
42.0				20.2	45.8	3 000*	26.2	49.5	3 800*	31.1	52.3	4 200*	37.9	55.5	5 100*	43.6	57.7	6 000*	42.0
44.0							18.2	44.4	2 800*	24.7	48.3	3 600*	32.8	52.6	4 400*	39.1	55.3	5 300*	44.0
46.0													26.8	49.0	3 800*	34.2	52.5	4 600	46.0
48.0													19.0	44.0	2 800*	28.4	49.1	3 800	48.0
50.0																21.3	44.6	3 000	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 33.5m (110 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

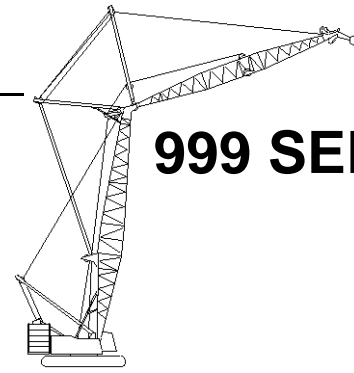
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
10.7	58.1	45.9	17 500*b																10.7
11.0	56.2	45.6	16 700*b																11.0
12.0	50.0	44.8	14 100*																12.0
13.0	43.1	43.7	12 100*	51.0	44.9	14 600*	61.4	46.0	20 200*										13.0
14.0	35.0	42.4	10 600*	44.3	43.8	12 400*	55.6	45.3	16 300*										14.0
15.0	24.4	40.4	9 200*	36.5	42.5	10 800*	49.4	44.4	13 900*										15.0
16.0							42.4	43.3	12 000*	54.0	44.8	16 000*b							16.0
17.0							34.2	41.9	10 500*	47.6	43.9	13 400*							17.0
18.0							23.2	39.8	9 200*	40.3	42.7	11 600*							18.0
19.0										31.6	41.2	10 200*	53.0	43.9	15 700*				19.0
20.0													46.5	43.0	13 200*				20.0
21.0													39.1	41.8	11 400*				21.0
22.0													30.0	40.2	10 000*	51.6	42.8	15 200*	22.0
23.0																44.9	41.8	12 800*	23.0
24.0																37.2	40.5	11 100*	24.0

### 33.5m (110 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
10.7	58.1	45.9	14 600*	64.6	46.5	18 700*b													10.7
11.0	56.2	45.6	13 900*	62.8	46.3	17 600*b													11.0
12.0	50.0	44.8	11 800*	57.1	45.7	14 400*													12.0
13.0	43.1	43.7	10 000*	51.0	44.9	11 900*	61.4	46.0	16 900*										13.0
14.0	35.0	42.4	8 700*	44.3	43.8	10 300*	55.6	45.3	13 700*										14.0
15.0	24.4	40.4	7 600*	36.5	42.5	8 900*	49.4	44.4	11 500*										15.0
16.0							42.4	43.3	9 900*	54.0	44.8	13 300*							16.0
17.0							34.2	41.9	8 600*	47.6	43.9	11 100*							17.0
18.0							23.2	39.8	7 500*	40.3	42.7	9 600*							18.0
19.0										31.6	41.2	8 300*	53.0	43.9	13 100*				19.0
20.0													46.5	43.0	11 000*				20.0
21.0													39.1	41.8	9 400*				21.0
22.0													30.0	40.2	8 200*	51.6	42.8	12 600*	22.0
23.0																44.9	41.8	10 600*	23.0
24.0																37.2	40.5	9 200*	24.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 33.5m (110 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

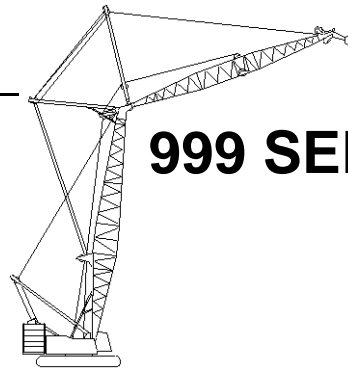
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	66.5	46.8	17 900*b																9.1
10.0	61.9	46.3	15 100*																10.0
11.0	56.2	45.6	12 100*	62.8	46.3	15 600*													11.0
12.0	50.0	44.8	10 200*	57.1	45.7	12 700*													12.0
13.0	43.1	43.7	8 700*	51.0	44.9	10 500*	61.4	46.0	15 000*										13.0
14.0	35.0	42.4	7 600*	44.3	43.8	9 000*	55.6	45.3	12 000*	65.4	46.1	17 500*							14.0
15.0	24.4	40.4	6 600*	36.5	42.5	7 700*	49.4	44.4	10 100*	59.9	45.5	14 100*							15.0
16.0							42.4	43.3	8 700*	54.0	44.8	11 500*							16.0
17.0							34.2	41.9	7 500*	47.6	43.9	9 800*							17.0
18.0							23.2	39.8	6 500*	40.3	42.7	8 400*							18.0
19.0										31.6	41.2	7 200*	53.0	43.9	11 500*				19.0
20.0													46.5	43.0	9 600*				20.0
21.0													39.1	41.8	8 200*				21.0
22.0													30.0	40.2	7 100*	51.6	42.8	11 100*	22.0
23.0																44.9	41.8	9 300*	23.0
24.0																37.2	40.5	8 000*	24.0

### 33.5m (110 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	71.5	50.1	25 900*b																9.1
10.0	68.0	49.7	21 900*																10.0
11.0	63.8	49.2	17 500*	68.7	49.7	22 600*													11.0
12.0	59.4	48.6	14 800*	64.5	49.3	18 400*													12.0
13.0	54.7	47.9	12 700*	60.1	48.7	15 200*	67.6	49.4	21 700*										13.0
14.0	49.8	47.1	11 100*	55.5	48.0	13 100*	63.4	48.9	17 400*										14.0
15.0	44.4	46.1	9 700*	50.6	47.2	11 400*	59.0	48.3	14 700*										15.0
16.0	38.3	44.8	8 600*	45.3	46.2	9 900*	54.3	47.6	12 600*	62.2	48.5	17 000*							16.0
17.0	31.3	43.3	7 600*	39.4	45.0	8 800*	49.3	46.7	11 000*	57.7	47.8	14 200*							17.0
18.0	22.0	41.0	6 800*	32.5	43.5	7 800*	43.9	45.7	9 700*	53.0	47.1	12 200*							18.0
19.0							37.8	44.4	8 500*	47.9	46.2	10 600*							19.0
20.0							30.6	42.8	7 600*	42.3	45.1	9 400*	57.0	47.0	14 000*				20.0
21.0							21.0	40.5	6 700*	36.0	43.7	8 300*	52.2	46.2	12 100*				21.0
22.0										28.3	42.0	7 400*	47.0	45.3	10 500*				22.0
23.0													41.4	44.2	9 300*	55.9	45.9	13 600*	23.0
24.0													34.9	42.8	8 200*	51.1	45.1	11 800*	24.0
25.0													26.9	41.0	7 300*	45.8	44.1	10 200*	25.0
26.0																40.0	43.0	9 100*	26.0
27.0																33.2	41.5	8 000*	27.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 33.5m (110 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	66.5	46.8	16 700*	72.5	47.2	23 000* <sup>b</sup>													9.1
10.0	61.9	46.3	14 200*	68.1	46.8	18 700*													10.0
11.0	56.2	45.6	11 400*	62.8	46.3	14 200*													11.0
12.0	50.0	44.8	9 600*	57.1	45.7	11 700*													12.0
13.0	43.1	43.7	8 200*	51.0	44.9	9 900*	61.4	46.0	13 900*										13.0
14.0	35.0	42.4	7 200*	44.3	43.8	8 500*	55.6	45.3	11 300*	65.4	46.1	16 300*							14.0
15.0	24.4	40.4	6 300*	36.5	42.5	7 300*	49.4	44.4	9 500*	59.9	45.5	13 200*							15.0
16.0							42.4	43.3	8 200*	54.0	44.8	10 700*							16.0
17.0							34.2	41.9	7 100*	47.6	43.9	9 200*							17.0
18.0							23.2	39.8	6 200*	40.3	42.7	7 900*							18.0
19.0										31.6	41.2	6 900*	53.0	43.9	10 700*				19.0
20.0													46.5	43.0	9 000*				20.0
21.0													39.1	41.8	7 800*				21.0
22.0													30.0	40.2	6 800*	51.6	42.8	10 400*	22.0
23.0																44.9	41.8	8 700*	23.0
24.0																37.2	40.5	7 500*	24.0

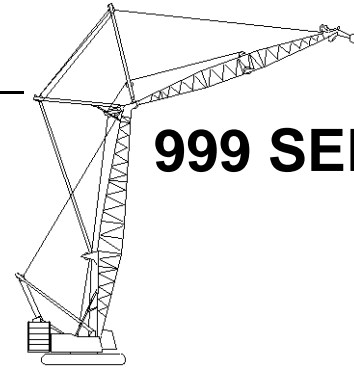
### 33.5m (110 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	71.5	50.1	23 300*																9.1
10.0	68.0	49.7	19 600*																10.0
11.0	63.8	49.2	15 800*	68.7	49.7	20 200*													11.0
12.0	59.4	48.6	13 300*	64.5	49.3	16 500*													12.0
13.0	54.7	47.9	11 400*	60.1	48.7	13 600*	67.6	49.4	19 400*										13.0
14.0	49.8	47.1	9 900*	55.5	48.0	11 700*	63.4	48.9	15 600*										14.0
15.0	44.4	46.1	8 700*	50.6	47.2	10 100*	59.0	48.3	13 200*										15.0
16.0	38.3	44.8	7 700*	45.3	46.2	8 900*	54.3	47.6	11 300*	62.2	48.5	15 200*							16.0
17.0	31.3	43.3	6 800*	39.4	45.0	7 800*	49.3	46.7	9 900*	57.7	47.8	12 700*							17.0
18.0	22.0	41.0	6 100*	32.5	43.5	7 000*	43.9	45.7	8 600*	53.0	47.1	10 900*							18.0
19.0							37.8	44.4	7 600*	47.9	46.2	9 500*							19.0
20.0							30.6	42.8	6 800*	42.3	45.1	8 400*	57.0	47.0	12 500*				20.0
21.0							21.0	40.5	6 000*	36.0	43.7	7 400*	52.2	46.2	10 800*				21.0
22.0										28.3	42.0	6 600*	47.0	45.3	9 300*				22.0
23.0													41.4	44.2	8 200*	55.9	45.9	12 100*	23.0
24.0													34.9	42.8	7 300*	51.1	45.1	10 500*	24.0
25.0													26.9	41.0	6 500*	45.8	44.1	9 100*	25.0
26.0																40.0	43.0	8 100*	26.0
27.0																33.2	41.5	7 100*	27.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

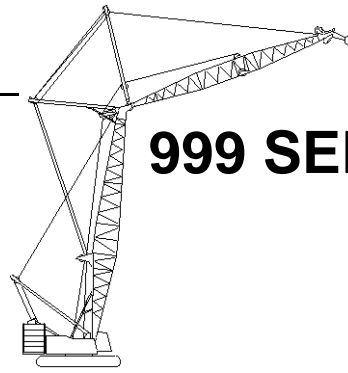
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 33.5m (110 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	74.7	53.3	26 700*																9.1
10.0	71.9	53.0	23 700*																10.0
11.0	68.5	52.6	20 200*	72.5	53.0	25 300*													11.0
12.0	65.0	52.2	17 000*	69.1	52.6	20 900*													12.0
13.0	61.4	51.6	14 500*	65.6	52.2	17 400*													13.0
14.0	57.7	51.0	12 600*	62.0	51.6	14 900*	68.2	52.3	20 000*										14.0
15.0	53.8	50.2	11 100*	58.3	51.0	12 900*	64.7	51.8	16 900*										15.0
16.0	49.6	49.4	9 800*	54.4	50.3	11 300*	61.1	51.3	14 400*										16.0
17.0	45.2	48.4	8 800*	50.3	49.5	10 000*	57.3	50.6	12 600*	63.7	51.4	16 200*							17.0
18.0	40.4	47.2	7 900*	46.0	48.5	8 900*	53.4	49.9	11 000*	60.1	50.8	14 000*							18.0
19.0	35.0	45.8	7 100*	41.2	47.4	8 000*	49.2	49.0	9 800*	56.3	50.1	12 100*							19.0
20.0	28.6	44.1	6 400*	35.9	46.0	7 200*	44.8	48.0	8 700*	52.3	49.4	10 700*							20.0
21.0	20.3	41.7	5 800*	29.8	44.3	6 500*	39.9	46.8	7 800*	48.1	48.5	9 500*							21.0
22.0							34.4	45.4	7 100*	43.5	47.4	8 500*	55.7	49.3	12 100*				22.0
23.0							28.0	43.6	6 400*	38.5	46.2	7 600*	51.7	48.5	10 600*				23.0
24.0							19.4	41.1	5 800*	32.8	44.7	6 900*	47.4	47.6	9 400*				24.0
25.0										26.0	42.8	6 200*	42.8	46.6	8 400*	54.8	48.2	11 800*	25.0
26.0													37.7	45.3	7 600*	50.7	47.4	10 400*	26.0
27.0													31.8	43.7	6 800*	46.4	46.5	9 200*	27.0
28.0													24.7	41.7	6 200*	41.7	45.3	8 300*	28.0
29.0																36.4	44.0	7 400*	29.0
30.0																30.4	42.4	6 700*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

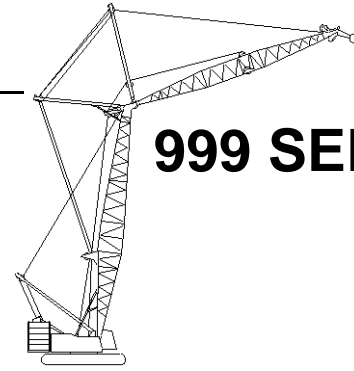
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 33.5m (110 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	72.7	56.0	26 700*																10.7
11.0	71.7	55.9	25 600*																11.0
12.0	68.8	55.5	22 100*																12.0
13.0	65.9	55.1	19 100*	69.3	55.5	23 000*													13.0
14.0	62.8	54.6	16 500*	66.4	55.1	19 500*													14.0
15.0	59.7	54.0	14 500*	63.4	54.6	17 000*													15.0
16.0	56.5	53.3	12 900*	60.2	54.0	14 900*	65.6	54.7	19 000*										16.0
17.0	53.1	52.5	11 600*	57.0	53.3	13 200*	62.6	54.2	16 400*										17.0
18.0	49.5	51.7	10 400*	53.7	52.6	11 800*	59.4	53.6	14 500*										18.0
19.0	45.8	50.7	9 400*	50.1	51.8	10 600*	56.2	52.9	12 900*	61.7	53.8	16 100*							19.0
20.0	41.7	49.6	8 500*	46.4	50.8	9 600*	52.8	52.2	11 500*	58.6	53.1	14 100*							20.0
21.0	37.3	48.3	7 700*	42.4	49.7	8 700*	49.2	51.3	10 400*	55.3	52.5	12 600*							21.0
22.0	32.4	46.8	7 000*	38.1	48.5	7 900*	45.4	50.3	9 400*	51.8	51.7	11 300*							22.0
23.0	26.6	44.9	6 400*	33.3	47.0	7 200*	41.4	49.2	8 500*	48.2	50.8	10 100*	58.0	52.4	13 900*				23.0
24.0	19.1	42.3	5 900*	27.6	45.2	6 600*	36.9	47.9	7 700*	44.4	49.8	9 200*	54.7	51.6	12 500*				24.0
25.0							31.9	46.3	7 100*	40.2	48.6	8 300*	51.3	50.8	11 100*				25.0
26.0							26.0	44.4	6 400*	35.6	47.2	7 600*	47.6	49.9	10 100*	57.3	51.3	13 600*	26.0
27.0							18.3	41.7	5 900*	30.4	45.6	6 900*	43.7	48.9	9 100*	54.0	50.5	12 200*	27.0
28.0										24.2	43.5	6 300*	39.5	47.7	8 200*	50.5	49.7	10 900*	28.0
29.0													34.9	46.3	7 500*	46.8	48.8	9 900*	29.0
30.0													29.5	44.6	6 900*	42.8	47.7	8 900*	30.0
31.0													23.0	42.4	6 300*	38.5	46.5	8 100*	31.0
32.0													13.6	39.0	5 800*	33.7	45.0	7 400*	32.0
33.0																28.2	43.2	6 800*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

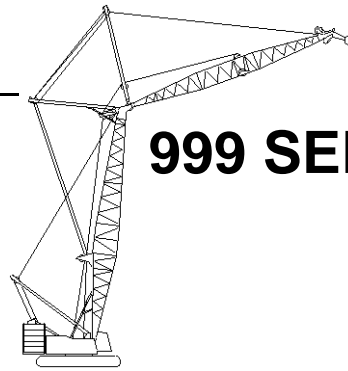
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 33.5m (110 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.9	59.2	26 700*																10.7
11.0	74.1	59.1	26 500*																11.0
12.0	71.6	58.8	26 000*																12.0
13.0	69.1	58.4	23 700*																13.0
14.0	66.5	58.0	20 100*	69.5	58.4	23 700*													14.0
15.0	63.9	57.5	17 700*	67.0	58.0	20 700*													15.0
16.0	61.2	56.9	15 800*	64.3	57.5	18 100*	68.9	58.1	23 000*										16.0
17.0	58.4	56.3	14 200*	61.6	56.9	16 200*	66.3	57.6	20 000*										17.0
18.0	55.5	55.6	12 800*	58.9	56.3	14 500*	63.6	57.1	17 700*										18.0
19.0	52.6	54.8	11 600*	56.0	55.6	13 100*	60.9	56.6	15 800*	65.6	57.2	19 500*							19.0
20.0	49.5	54.0	10 600*	53.1	54.9	11 800*	58.2	56.0	14 200*	62.9	56.7	17 200*							20.0
21.0	46.2	53.0	9 700*	50.0	54.1	10 800*	55.3	55.3	12 800*	60.2	56.1	15 300*							21.0
22.0	42.7	52.0	8 800*	46.8	53.1	9 900*	52.3	54.5	11 600*	57.4	55.5	13 800*							22.0
23.0	39.0	50.7	8 100*	43.3	52.1	9 000*	49.2	53.6	10 600*	54.5	54.8	12 500*	62.5	55.9	17 000*				23.0
24.0	34.9	49.3	7 500*	39.7	50.9	8 300*	45.9	52.7	9 700*	51.5	54.0	11 400*	59.8	55.3	15 300*				24.0
25.0	30.4	47.7	6 900*	35.7	49.5	7 600*	42.4	51.6	8 900*	48.3	53.1	10 400*	56.9	54.7	13 700*				25.0
26.0	25.0	45.6	6 400*	31.2	47.9	7 000*	38.7	50.3	8 100*	45.0	52.1	9 500*	54.0	54.0	12 400*				26.0
27.0	18.1	42.9	5 900*	26.0	45.9	6 500*	34.6	48.9	7 500*	41.4	51.0	8 700*	51.0	53.1	11 300*				27.0
28.0							29.9	47.2	6 900*	37.6	49.7	8 000*	47.8	52.2	10 300*	56.3	53.6	13 500*	28.0
29.0							24.5	45.1	6 400*	33.4	48.2	7 400*	44.4	51.2	9 400*	53.3	52.8	12 200*	29.0
30.0							17.4	42.3	5 900*	28.6	46.4	6 800*	40.9	50.1	8 700*	50.3	52.0	11 100*	30.0
31.0										22.8	44.2	6 300*	37.0	48.8	8 000*	47.1	51.1	10 200*	31.0
32.0										14.8	41.0	5 800*	32.7	47.2	7 400*	43.6	50.0	9 300*	32.0
33.0													27.7	45.4	6 800*	40.0	48.9	8 600*	33.0
34.0													21.7	43.1	6 300*	36.0	47.5	7 900*	34.0
35.0													13.1	39.6	5 800*	31.6	45.9	7 300*	35.0
36.0																26.5	44.0	6 700*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

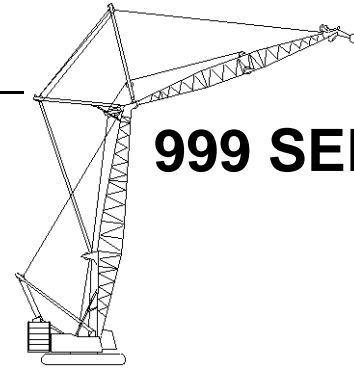
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 33.5m (110 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.3	61.9	26 700*																12.2
13.0	71.5	61.7	26 400*																13.0
14.0	69.3	61.3	25 700*	71.9	61.6	26 400*													14.0
15.0	67.0	60.9	22 900*	69.7	61.3	25 500*													15.0
16.0	64.7	60.4	20 300*	67.4	60.9	23 600*													16.0
17.0	62.3	59.9	18 300*	65.1	60.4	20 800*	69.1	61.0	25 400*										17.0
18.0	59.9	59.3	16 600*	62.7	59.9	18 700*	66.8	60.5	22 700*										18.0
19.0	57.4	58.6	15 000*	60.3	59.3	16 900*	64.5	60.0	20 300*										19.0
20.0	54.8	57.9	13 700*	57.8	58.7	15 400*	62.1	59.5	18 300*	66.2	60.1	22 100*							20.0
21.0	52.2	57.1	12 600*	55.3	58.0	14 000*	59.7	58.9	16 600*	63.8	59.6	19 900*							21.0
22.0	49.4	56.3	11 600*	52.6	57.2	12 800*	57.2	58.3	15 100*	61.5	59.1	17 900*							22.0
23.0	46.5	55.3	10 700*	49.9	56.4	11 800*	54.6	57.6	13 800*	59.0	58.5	16 200*							23.0
24.0	43.5	54.3	9 900*	47.0	55.4	10 900*	51.9	56.8	12 600*	56.5	57.8	14 800*							24.0
25.0	40.3	53.1	9 100*	44.0	54.4	10 100*	49.2	55.9	11 600*	53.9	57.1	13 600*	61.1	58.3	17 700*				25.0
26.0	36.8	51.8	8 500*	40.8	53.2	9 300*	46.3	55.0	10 800*	51.2	56.3	12 500*	58.6	57.7	16 100*				26.0
27.0	33.0	50.3	7 900*	37.4	52.0	8 600*	43.2	53.9	9 900*	48.4	55.4	11 500*	56.1	57.0	14 700*				27.0
28.0	28.7	48.5	7 300*	33.7	50.5	8 000*	40.0	52.7	9 200*	45.5	54.4	10 600*	53.5	56.3	13 500*				28.0
29.0	23.7	46.4	6 800*	29.5	48.8	7 400*	36.5	51.4	8 500*	42.4	53.3	9 800*	50.8	55.4	12 400*				29.0
30.0	17.4	43.5	6 300*	24.6	46.7	6 900*	32.6	49.9	7 900*	39.0	52.1	9 100*	47.9	54.5	11 400*				30.0
31.0							28.3	48.1	7 300*	35.5	50.7	8 400*	45.0	53.5	10 500*	52.9	55.1	13 300*	31.0
32.0							23.2	45.9	6 800*	31.5	49.1	7 800*	41.8	52.4	9 800*	50.1	54.3	12 200*	32.0
33.0							16.7	42.9	6 400*	27.0	47.2	7 200*	38.5	51.2	9 000*	47.3	53.4	11 300*	33.0
34.0										21.7	44.9	6 700*	34.9	49.8	8 400*	44.3	52.4	10 400*	34.0
35.0										14.4	41.5	6 300*	30.9	48.1	7 800*	41.1	51.2	9 700*	35.0
36.0													26.3	46.2	7 300*	37.7	49.9	9 000*	36.0
37.0													20.7	43.7	6 800*	34.0	48.5	8 300*	37.0
38.0													12.8	40.1	6 300*	29.9	46.8	7 800*	38.0
39.0																25.1	44.8	7 200*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

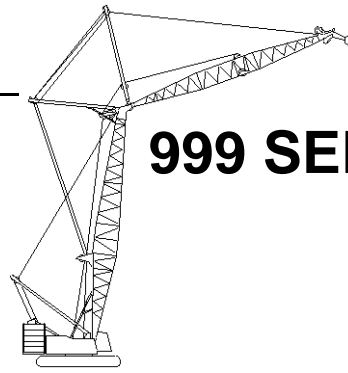
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 33.5m (110 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.9	59.2	26 700*																10.7
11.0	74.1	59.1	26 100*																11.0
12.0	71.6	58.8	24 300*																12.0
13.0	69.1	58.4	21 700*																13.0
14.0	66.5	58.0	18 600*	69.5	58.4	21 900*													14.0
15.0	63.9	57.5	16 400*	67.0	58.0	19 100*													15.0
16.0	61.2	56.9	14 600*	64.3	57.5	16 800*	68.9	58.1	21 200*										16.0
17.0	58.4	56.3	13 100*	61.6	56.9	14 900*	66.3	57.6	18 400*										17.0
18.0	55.5	55.6	11 800*	58.9	56.3	13 400*	63.6	57.1	16 300*										18.0
19.0	52.6	54.8	10 700*	56.0	55.6	12 100*	60.9	56.6	14 600*	65.6	57.2	18 000*							19.0
20.0	49.5	54.0	9 800*	53.1	54.9	11 000*	58.2	56.0	13 100*	62.9	56.7	15 900*							20.0
21.0	46.2	53.0	8 900*	50.0	54.1	10 000*	55.3	55.3	11 800*	60.2	56.1	14 200*							21.0
22.0	42.7	52.0	8 100*	46.8	53.1	9 100*	52.3	54.5	10 700*	57.4	55.5	12 800*							22.0
23.0	39.0	50.7	7 500*	43.3	52.1	8 300*	49.2	53.6	9 800*	54.5	54.8	11 600*	62.5	55.9	15 700*				23.0
24.0	34.9	49.3	6 900*	39.7	50.9	7 600*	45.9	52.7	8 900*	51.5	54.0	10 500*	59.8	55.3	14 100*				24.0
25.0	30.4	47.7	6 300*	35.7	49.5	7 000*	42.4	51.6	8 200*	48.3	53.1	9 600*	56.9	54.7	12 600*				25.0
26.0	25.0	45.6	5 800*	31.2	47.9	6 500*	38.7	50.3	7 500*	45.0	52.1	8 800*	54.0	54.0	11 500*				26.0
27.0	18.1	42.9	5 400*	26.0	45.9	6 000*	34.6	48.9	6 900*	41.4	51.0	8 000*	51.0	53.1	10 400*				27.0
28.0							29.9	47.2	6 400*	37.6	49.7	7 400*	47.8	52.2	9 500*	56.3	53.6	12 500*	28.0
29.0							24.5	45.1	5 900*	33.4	48.2	6 800*	44.4	51.2	8 700*	53.3	52.8	11 300*	29.0
30.0							17.4	42.3	5 400*	28.6	46.4	6 300*	40.9	50.1	8 000*	50.3	52.0	10 300*	30.0
31.0										22.8	44.2	5 800*	37.0	48.8	7 400*	47.1	51.1	9 400*	31.0
32.0										14.8	41.0	5 300*	32.7	47.2	6 800*	43.6	50.0	8 600*	32.0
33.0													27.7	45.4	6 300*	40.0	48.9	7 900*	33.0
34.0													21.7	43.1	5 800*	36.0	47.5	7 300*	34.0
35.0													13.1	39.6	5 400*	31.6	45.9	6 700*	35.0
36.0																26.5	44.0	6 200*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

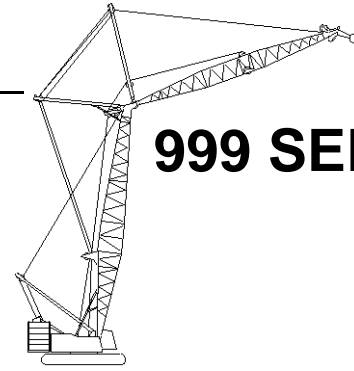
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 33.5m (110 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.3	61.9	26 700*																12.2
13.0	71.5	61.7	25 500*																13.0
14.0	69.3	61.3	23 800*	71.9	61.6	26 100*													14.0
15.0	67.0	60.9	21 100*	69.7	61.3	23 900*													15.0
16.0	64.7	60.4	18 600*	67.4	60.9	21 600*													16.0
17.0	62.3	59.9	16 800*	65.1	60.4	19 100*	69.1	61.0	23 500*										17.0
18.0	59.9	59.3	15 100*	62.7	59.9	17 100*	66.8	60.5	20 900*										18.0
19.0	57.4	58.6	13 800*	60.3	59.3	15 500*	64.5	60.0	18 600*										19.0
20.0	54.8	57.9	12 600*	57.8	58.7	14 100*	62.1	59.5	16 800*	66.2	60.1	20 200*							20.0
21.0	52.2	57.1	11 500*	55.3	58.0	12 800*	59.7	58.9	15 200*	63.8	59.6	18 200*							21.0
22.0	49.4	56.3	10 500*	52.6	57.2	11 700*	57.2	58.3	13 800*	61.5	59.1	16 400*							22.0
23.0	46.5	55.3	9 700*	49.9	56.4	10 800*	54.6	57.6	12 600*	59.0	58.5	14 900*							23.0
24.0	43.5	54.3	9 000*	47.0	55.4	9 900*	51.9	56.8	11 600*	56.5	57.8	13 500*							24.0
25.0	40.3	53.1	8 300*	44.0	54.4	9 100*	49.2	55.9	10 600*	53.9	57.1	12 400*	61.1	58.3	16 300*				25.0
26.0	36.8	51.8	7 700*	40.8	53.2	8 500*	46.3	55.0	9 800*	51.2	56.3	11 400*	58.6	57.7	14 700*				26.0
27.0	33.0	50.3	7 100*	37.4	52.0	7 800*	43.2	53.9	9 100*	48.4	55.4	10 500*	56.1	57.0	13 400*				27.0
28.0	28.7	48.5	6 600*	33.7	50.5	7 300*	40.0	52.7	8 400*	45.5	54.4	9 700*	53.5	56.3	12 300*				28.0
29.0	23.7	46.4	6 100*	29.5	48.8	6 700*	36.5	51.4	7 800*	42.4	53.3	8 900*	50.8	55.4	11 300*				29.0
30.0	17.4	43.5	5 700*	24.6	46.7	6 300*	32.6	49.9	7 200*	39.0	52.1	8 300*	47.9	54.5	10 400*				30.0
31.0							28.3	48.1	6 700*	35.5	50.7	7 700*	45.0	53.5	9 600*	52.9	55.1	12 200*	31.0
32.0							23.2	45.9	6 200*	31.5	49.1	7 100*	41.8	52.4	8 900*	50.1	54.3	11 200*	32.0
33.0							16.7	42.9	5 800*	27.0	47.2	6 600*	38.5	51.2	8 300*	47.3	53.4	10 300*	33.0
34.0										21.7	44.9	6 100*	34.9	49.8	7 700*	44.3	52.4	9 500*	34.0
35.0										14.4	41.5	5 700*	30.9	48.1	7 100*	41.1	51.2	8 800*	35.0
36.0													26.3	46.2	6 600*	37.7	49.9	8 200*	36.0
37.0													20.7	43.7	6 200*	34.0	48.5	7 600*	37.0
38.0													12.8	40.1	5 700*	29.9	46.8	7 100*	38.0
39.0																25.1	44.8	6 600*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

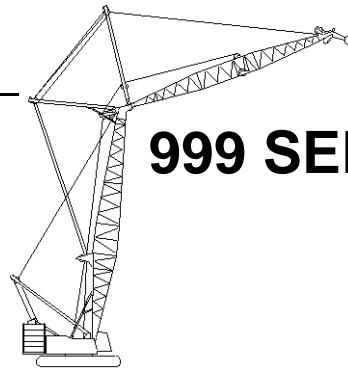
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 33.5m (110 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.9	59.2	26 700*																10.7
11.0	74.1	59.1	25 700*																11.0
12.0	71.6	58.8	22 700*																12.0
13.0	69.1	58.4	19 800*																13.0
14.0	66.5	58.0	17 200*	69.5	58.4	20 300*													14.0
15.0	63.9	57.5	15 100*	67.0	58.0	17 700*													15.0
16.0	61.2	56.9	13 500*	64.3	57.5	15 500*	68.9	58.1	19 700*										16.0
17.0	58.4	56.3	12 100*	61.6	56.9	13 800*	66.3	57.6	17 100*										17.0
18.0	55.5	55.6	10 900*	58.9	56.3	12 400*	63.6	57.1	15 100*										18.0
19.0	52.6	54.8	9 900*	56.0	55.6	11 200*	60.9	56.6	13 500*	65.6	57.2	16 700*							19.0
20.0	49.5	54.0	9 000*	53.1	54.9	10 100*	58.2	56.0	12 100*	62.9	56.7	14 700*							20.0
21.0	46.2	53.0	8 200*	50.0	54.1	9 200*	55.3	55.3	10 900*	60.2	56.1	13 200*							21.0
22.0	42.7	52.0	7 500*	46.8	53.1	8 400*	52.3	54.5	9 900*	57.4	55.5	11 800*							22.0
23.0	39.0	50.7	6 900*	43.3	52.1	7 700*	49.2	53.6	9 000*	54.5	54.8	10 700*	62.5	55.9	14 500*				23.0
24.0	34.9	49.3	6 300*	39.7	50.9	7 000*	45.9	52.7	8 300*	51.5	54.0	9 700*	59.8	55.3	13 000*				24.0
25.0	30.4	47.7	5 800*	35.7	49.5	6 500*	42.4	51.6	7 600*	48.3	53.1	8 900*	56.9	54.7	11 700*				25.0
26.0	25.0	45.6	5 400*	31.2	47.9	5 900*	38.7	50.3	6 900*	45.0	52.1	8 100*	54.0	54.0	10 600*				26.0
27.0	18.1	42.9	5 000*	26.0	45.9	5 500*	34.6	48.9	6 300*	41.4	51.0	7 400*	51.0	53.1	9 700*				27.0
28.0							29.9	47.2	5 800*	37.6	49.7	6 800*	47.8	52.2	8 800*	56.3	53.6	11 600*	28.0
29.0							24.5	45.1	5 400*	33.4	48.2	6 300*	44.4	51.2	8 000*	53.3	52.8	10 400*	29.0
30.0							17.4	42.3	5 000*	28.6	46.4	5 800*	40.9	50.1	7 400*	50.3	52.0	9 500*	30.0
31.0										22.8	44.2	5 300*	37.0	48.8	6 800*	47.1	51.1	8 700*	31.0
32.0										14.8	41.0	4 900*	32.7	47.2	6 300*	43.6	50.0	8 000*	32.0
33.0													27.7	45.4	5 800*	40.0	48.9	7 300*	33.0
34.0													21.7	43.1	5 300*	36.0	47.5	6 700*	34.0
35.0													13.1	39.6	4 900*	31.6	45.9	6 200*	35.0
36.0																26.5	44.0	5 700*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

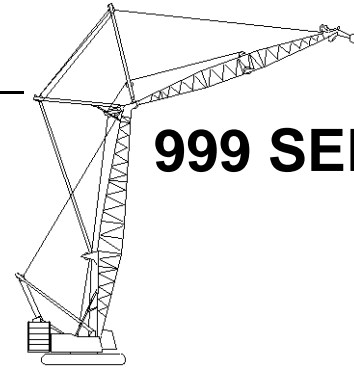
### 33.5m (110 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.3	61.9	26 700*																12.2
13.0	71.5	61.7	24 500*																13.0
14.0	69.3	61.3	21 800*	71.9	61.6	25 500*													14.0
15.0	67.0	60.9	19 300*	69.7	61.3	22 300*													15.0
16.0	64.7	60.4	17 100*	67.4	60.9	19 600*													16.0
17.0	62.3	59.9	15 400*	65.1	60.4	17 500*	69.1	61.0	21 700*										17.0
18.0	59.9	59.3	13 900*	62.7	59.9	15 700*	66.8	60.5	19 200*										18.0
19.0	57.4	58.6	12 700*	60.3	59.3	14 200*	64.5	60.0	17 100*										19.0
20.0	54.8	57.9	11 500*	57.8	58.7	12 900*	62.1	59.5	15 400*	66.2	60.1	18 600*							20.0
21.0	52.2	57.1	10 500*	55.3	58.0	11 800*	59.7	58.9	14 000*	63.8	59.6	16 800*							21.0
22.0	49.4	56.3	9 700*	52.6	57.2	10 800*	57.2	58.3	12 700*	61.5	59.1	15 100*							22.0
23.0	46.5	55.3	8 900*	49.9	56.4	9 900*	54.6	57.6	11 600*	59.0	58.5	13 700*							23.0
24.0	43.5	54.3	8 200*	47.0	55.4	9 100*	51.9	56.8	10 600*	56.5	57.8	12 400*							24.0
25.0	40.3	53.1	7 600*	44.0	54.4	8 400*	49.2	55.9	9 800*	53.9	57.1	11 400*	61.1	58.3	15 000*				25.0
26.0	36.8	51.8	7 000*	40.8	53.2	7 700*	46.3	55.0	9 000*	51.2	56.3	10 400*	58.6	57.7	13 600*				26.0
27.0	33.0	50.3	6 500*	37.4	52.0	7 200*	43.2	53.9	8 300*	48.4	55.4	9 600*	56.1	57.0	12 400*				27.0
28.0	28.7	48.5	6 000*	33.7	50.5	6 600*	40.0	52.7	7 700*	45.5	54.4	8 900*	53.5	56.3	11 300*				28.0
29.0	23.7	46.4	5 600*	29.5	48.8	6 100*	36.5	51.4	7 100*	42.4	53.3	8 200*	50.8	55.4	10 400*				29.0
30.0	17.4	43.5	5 200*	24.6	46.7	5 700*	32.6	49.9	6 600*	39.0	52.1	7 600*	47.9	54.5	9 600*				30.0
31.0							28.3	48.1	6 100*	35.5	50.7	7 000*	45.0	53.5	8 800*	52.9	55.1	11 200*	31.0
32.0							23.2	45.9	5 700*	31.5	49.1	6 500*	41.8	52.4	8 200*	50.1	54.3	10 300*	32.0
33.0							16.7	42.9	5 300*	27.0	47.2	6 000*	38.5	51.2	7 600*	47.3	53.4	9 500*	33.0
34.0										21.7	44.9	5 600*	34.9	49.8	7 000*	44.3	52.4	8 800*	34.0
35.0										14.4	41.5	5 200*	30.9	48.1	6 500*	41.1	51.2	8 100*	35.0
36.0													26.3	46.2	6 000*	37.7	49.9	7 500*	36.0
37.0													20.7	43.7	5 600*	34.0	48.5	7 000*	37.0
38.0													12.8	40.1	5 200*	29.9	46.8	6 500*	38.0
39.0																25.1	44.8	6 000*	39.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

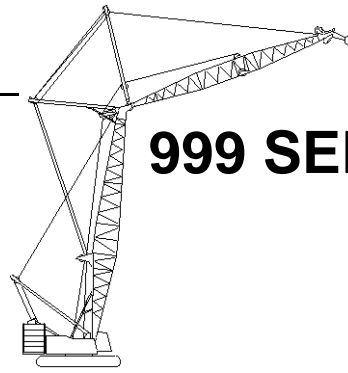
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 33.5m (110 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.1	65.1	26 700*																12.2
13.0	73.5	64.9	25 900*																13.0
14.0	71.5	64.6	24 700*																14.0
15.0	69.5	64.2	22 300*																15.0
16.0	67.4	63.8	20 000*	69.8	64.2	22 600*													16.0
17.0	65.3	63.3	18 100*	67.8	63.7	20 500*													17.0
18.0	63.2	62.8	16 400*	65.7	63.3	18 500*													18.0
19.0	61.1	62.2	14 900*	63.6	62.8	16 700*	67.2	63.4	20 000*										19.0
20.0	58.8	61.6	13 600*	61.4	62.2	15 200*	65.1	63.0	18 100*										20.0
21.0	56.6	61.0	12 500*	59.2	61.6	13 900*	63.0	62.4	16 400*										21.0
22.0	54.3	60.2	11 500*	57.0	61.0	12 800*	60.9	61.9	15 000*	64.6	62.5	17 700*							22.0
23.0	51.9	59.4	10 600*	54.6	60.3	11 700*	58.6	61.3	13 700*	62.4	62.0	16 100*							23.0
24.0	49.4	58.6	9 800*	52.3	59.5	10 800*	56.4	60.6	12 600*	60.3	61.4	14 700*							24.0
25.0	46.8	57.7	9 100*	49.8	58.7	10 000*	54.0	59.9	11 600*	58.0	60.8	13 500*							25.0
26.0	44.1	56.6	8 400*	47.2	57.7	9 300*	51.6	59.1	10 700*	55.8	60.1	12 400*	62.1	61.2	15 900*				26.0
27.0	41.2	55.5	7 800*	44.5	56.7	8 600*	49.1	58.2	9 900*	53.4	59.4	11 400*	59.9	60.6	14 600*				27.0
28.0	38.2	54.2	7 300*	41.7	55.6	8 000*	46.5	57.3	9 200*	51.0	58.6	10 500*	57.7	60.0	13 400*				28.0
29.0	34.9	52.8	6 800*	38.7	54.4	7 500*	43.8	56.2	8 500*	48.5	57.7	9 800*	55.4	59.3	12 300*				29.0
30.0	31.4	51.2	6 300*	35.5	53.0	6 900*	41.0	55.1	7 900*	45.8	56.7	9 100*	53.0	58.6	11 400*				30.0
31.0	27.4	49.3	5 900*	32.0	51.4	6 500*	37.9	53.8	7 400*	43.1	55.6	8 400*	50.6	57.7	10 500*				31.0
32.0	22.7	47.1	5 500*	28.1	49.6	6 000*	34.6	52.4	6 900*	40.2	54.5	7 800*	48.0	56.8	9 800*	54.9	58.2	12 200*	32.0
33.0	16.7	44.1	5 200*	23.5	47.4	5 600*	31.0	50.8	6 400*	37.1	53.2	7 300*	45.4	55.9	9 100*	52.5	57.4	11 300*	33.0
34.0							27.0	48.9	6 000*	33.7	51.7	6 800*	42.6	54.8	8 500*	50.0	56.6	10 500*	34.0
35.0							22.2	46.6	5 600*	30.0	50.0	6 400*	39.7	53.6	7 900*	47.5	55.7	9 700*	35.0
36.0							16.1	43.5	5 200*	25.8	48.0	5 900*	36.5	52.3	7 300*	44.8	54.7	9 000*	36.0
37.0										20.8	45.5	5 600*	33.1	50.7	6 900*	42.0	53.6	8 400*	37.0
38.0										14.0	42.1	5 200*	29.4	49.0	6 400*	39.0	52.4	7 800*	38.0
39.0													25.1	47.0	6 000*	35.8	51.0	7 300*	39.0
40.0													19.8	44.4	5 600*	32.3	49.4	6 800*	40.0
42.0																24.0	45.5	5 900	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

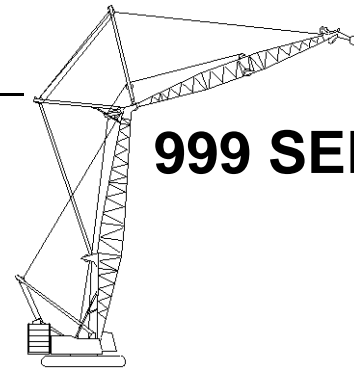
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 33.5m (110 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	73.7	67.9	24 400*																13.7
14.0	73.2	67.8	23 800*																14.0
15.0	71.4	67.4	21 500*																15.0
16.0	69.6	67.1	19 400*	71.7	67.4	21 900*													16.0
17.0	67.7	66.6	17 800*	69.9	67.0	19 800*													17.0
18.0	65.8	66.2	16 300*	68.0	66.6	18 000*													18.0
19.0	63.9	65.7	14 900*	66.2	66.2	16 500*	69.4	66.7	19 400*										19.0
20.0	62.0	65.2	13 800*	64.3	65.7	15 200*	67.6	66.3	17 600*										20.0
21.0	60.0	64.6	12 700*	62.3	65.2	14 000*	65.7	65.9	16 100*										21.0
22.0	58.0	64.0	11 800*	60.3	64.6	12 900*	63.8	65.4	14 800*										22.0
23.0	55.9	63.3	10 900*	58.3	64.0	12 000*	61.8	64.8	13 700*	65.2	65.4	15 800*							23.0
24.0	53.8	62.5	10 000*	56.3	63.3	11 100*	59.8	64.2	12 700*	63.2	64.9	14 600*							24.0
25.0	51.6	61.7	9 200*	54.1	62.6	10 300*	57.8	63.6	11 700*	61.3	64.4	13 400*							25.0
26.0	49.3	60.9	8 500*	52.0	61.8	9 400*	55.7	62.9	10 900*	59.3	63.8	12 400*							26.0
27.0	47.0	60.0	7 800*	49.7	61.0	8 700*	53.6	62.2	10 100*	57.2	63.1	11 500*							27.0
28.0	44.6	58.9	7 200*	47.4	60.0	8 000*	51.4	61.4	9 400*	55.2	62.4	10 700*	61.0	63.6	13 300*				28.0
29.0	42.0	57.8	6 700*	45.0	59.0	7 400*	49.1	60.5	8 600*	53.0	61.7	10 000*	59.0	63.0	12 300*				29.0
30.0	39.3	56.6	6 200*	42.4	57.9	6 900*	46.8	59.6	8 000*	50.8	60.9	9 200*	56.9	62.3	11 400*				30.0
31.0	36.4	55.3	5 700*	39.8	56.8	6 300*	44.3	58.6	7 400*	48.5	60.0	8 500*	54.8	61.6	10 600*				31.0
32.0	33.4	53.8	5 300*	36.9	55.4	5 800*	41.8	57.4	6 800*	46.1	59.0	7 900*	52.7	60.9	9 900*				32.0
33.0	30.0	52.1	4 900*	33.9	54.0	5 400*	39.1	56.2	6 300*	43.7	58.0	7 300*	50.4	60.0	9 200*				33.0
34.0	26.2	50.1	4 500*	30.6	52.3	5 000*	36.2	54.9	5 900*	41.0	56.8	6 700*	48.1	59.1	8 500*	54.3	60.5	10 400*	34.0
35.0	21.8	47.8	4 200*	26.9	50.4	4 600*	33.1	53.4	5 400*	38.3	55.6	6 200*	45.7	58.2	7 900*	52.2	59.7	9 700*	35.0
36.0	16.2	44.7	3 700*	22.6	48.1	4 300*	29.7	51.7	5 000*	35.4	54.2	5 800*	43.3	57.1	7 300*	49.9	58.9	9 000*	36.0
37.0							25.8	49.7	4 600*	32.2	52.6	5 400*	40.6	56.0	6 800*	47.6	58.0	8 400*	37.0
38.0							21.4	47.2	4 300*	28.7	50.9	5 000*	37.9	54.7	6 300*	45.2	57.0	7 900*	38.0
39.0							15.6	44.0	4 000*	24.7	48.8	4 600*	34.9	53.3	5 800*	42.7	55.9	7 300*	39.0
40.0										20.0	46.2	4 300*	31.7	51.7	5 400*	40.0	54.7	6 700*	40.0
42.0													24.0	47.7	4 600*	34.2	52.0	5 800*	42.0
44.0													12.3	41.2	4 000*	27.2	48.5	5 000	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

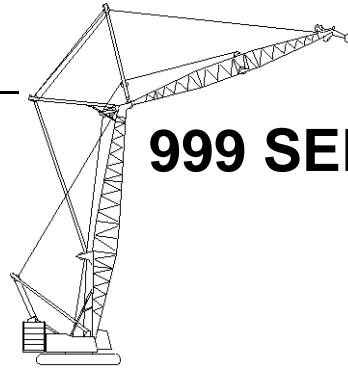
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 33.5m (110 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m		
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall				
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms
13.7	75.1	71.0	26 400*																13.7		
14.0	74.7	71.0	25 800*																14.0		
15.0	73.0	70.6	23 400*																15.0		
16.0	71.4	70.3	21 300*																16.0		
17.0	69.7	69.9	19 500*	71.6	70.3	21 700*													17.0		
18.0	68.0	69.5	18 000*	70.0	69.9	19 900*													18.0		
19.0	66.3	69.1	16 600*	68.3	69.5	18 200*													19.0		
20.0	64.5	68.6	15 400*	66.6	69.1	16 800*	69.5	69.6	19 400*										20.0		
21.0	62.8	68.1	14 300*	64.8	68.6	15 600*	67.8	69.2	17 900*										21.0		
22.0	61.0	67.5	13 300*	63.1	68.1	14 500*	66.1	68.8	16 500*										22.0		
23.0	59.1	66.9	12 400*	61.3	67.5	13 500*	64.4	68.3	15 300*	67.4	68.8	17 500*							23.0		
24.0	57.3	66.3	11 600*	59.4	66.9	12 600*	62.6	67.7	14 200*	65.7	68.3	16 200*							24.0		
25.0	55.3	65.6	10 800*	57.6	66.3	11 700*	60.8	67.2	13 200*	63.9	67.8	15 000*							25.0		
26.0	53.4	64.8	10 100*	55.7	65.6	11 000*	59.0	66.6	12 300*	62.1	67.3	13 900*							26.0		
27.0	51.4	64.0	9 400*	53.7	64.9	10 300*	57.1	65.9	11 500*	60.3	66.7	13 000*							27.0		
28.0	49.3	63.2	8 700*	51.7	64.1	9 600*	55.2	65.2	10 800*	58.5	66.1	12 100*							28.0		
29.0	47.2	62.3	8 100*	49.7	63.3	8 900*	53.2	64.5	10 100*	56.6	65.5	11 300*	61.8	66.5	13 800*				29.0		
30.0	44.9	61.3	7 600*	47.5	62.3	8 300*	51.2	63.7	9 500*	54.7	64.7	10 600*	60.0	65.9	12 900*				30.0		
31.0	42.6	60.2	7 000*	45.3	61.4	7 700*	49.1	62.8	8 900*	52.7	64.0	10 000*	58.2	65.3	12 000*				31.0		
32.0	40.2	59.0	6 600*	43.0	60.3	7 200*	47.0	61.9	8 300*	50.6	63.2	9 400*	56.3	64.7	11 200*				32.0		
33.0	37.6	57.7	6 100*	40.6	59.1	6 700*	44.7	60.9	7 700*	48.5	62.3	8 800*	54.3	63.9	10 500*				33.0		
34.0	34.9	56.3	5 700*	38.1	57.9	6 300*	42.4	59.8	7 200*	46.4	61.3	8 300*	52.4	63.2	9 900*				34.0		
35.0	32.0	54.7	5 300*	35.4	56.5	5 800*	40.0	58.6	6 700*	44.1	60.3	7 700*	50.3	62.3	9 300*				35.0		
36.0	28.8	53.0	4 900*	32.5	54.9	5 400*	37.4	57.3	6 200*	41.8	59.2	7 200*	48.2	61.4	8 700*	53.9	62.8	10 200	36.0		
37.0	25.2	50.9	4 600*	29.3	53.2	5 100*	34.7	55.9	5 800*	39.3	58.0	6 700*	46.0	60.5	8 200*	51.9	62.0	9 500	37.0		
38.0	21.0	48.4	4 300*	25.8	51.2	4 700*	31.7	54.3	5 400*	36.7	56.6	6 200*	43.8	59.4	7 700*	49.8	61.2	8 800	38.0		
39.0	15.8	45.2	3 100*	21.8	48.8	4 400*	28.5	52.5	5 100*	33.9	55.2	5 800*	41.4	58.3	7 200*	47.7	60.3	8 200	39.0		
40.0							24.9	50.4	4 700*	30.9	53.5	5 400*	38.9	57.1	6 700*	45.5	59.3	7 500	40.0		
42.0							15.2	44.6	3 400*	23.8	49.5	4 700*	33.4	54.2	5 900*	40.8	57.1	6 400	42.0		
44.0												13.4	43.2	3 600*	27.0	50.7	5 100*	35.6	54.5	5 400	44.0
46.0															18.5	45.6	4 400*	29.6	51.2	4 400	46.0
48.0															22.2	46.9	3 500	22.2	46.9	3 500	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

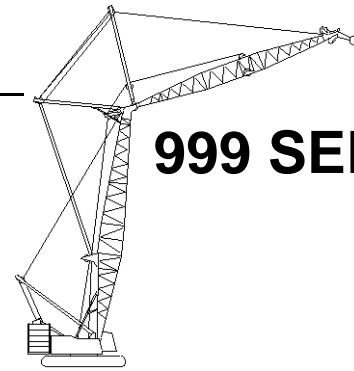
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 33.5m (110 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m			
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall					
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	74.0	73.8	22 000*																15.2			
16.0	72.9	73.5	20 600*																16.0			
17.0	71.3	73.2	18 800*	73.1	73.5	20 900*													17.0			
18.0	69.8	72.8	17 300*	71.6	73.2	19 200*													18.0			
19.0	68.2	72.4	15 900*	70.0	72.8	17 500*													19.0			
20.0	66.6	72.0	14 700*	68.5	72.4	16 100*													20.0			
21.0	65.0	71.5	13 600*	66.9	72.0	14 900*													21.0			
22.0	63.4	71.0	12 600*	65.3	71.5	13 800*	68.1	72.1	15 800*										22.0			
23.0	61.8	70.5	11 700*	63.7	71.0	12 700*	66.5	71.6	14 600*										23.0			
24.0	60.1	69.9	10 900*	62.0	70.5	11 800*	64.9	71.2	13 500*										24.0			
25.0	58.4	69.3	10 100*	60.4	69.9	11 000*	63.3	70.7	12 600*	66.1	71.2	14 300*							25.0			
26.0	56.6	68.6	9 500*	58.7	69.3	10 300*	61.6	70.1	11 700*	64.5	70.7	13 200*							26.0			
27.0	54.9	67.9	8 800*	56.9	68.6	9 600*	59.9	69.5	10 800*	62.8	70.2	12 300*							27.0			
28.0	53.1	67.2	8 200*	55.2	67.9	8 900*	58.2	68.9	10 100*	61.2	69.7	11 400*							28.0			
29.0	51.2	66.3	7 700*	53.4	67.2	8 300*	56.5	68.3	9 400*	59.5	69.1	10 700*							29.0			
30.0	49.3	65.5	7 200*	51.5	66.4	7 800*	54.7	67.6	8 800*	57.8	68.5	9 900*							30.0			
31.0	47.3	64.6	6 700*	49.6	65.6	7 300*	52.9	66.8	8 200*	56.0	67.8	9 300*	60.9	68.9	11 300*				31.0			
32.0	45.3	63.6	6 300*	47.6	64.6	6 800*	51.0	66.0	7 700*	54.2	67.1	8 700*	59.2	68.3	10 500*				32.0			
33.0	43.2	62.5	5 900*	45.6	63.7	6 300*	49.1	65.1	7 200*	52.4	66.3	8 100*	57.5	67.7	9 800*				33.0			
34.0	40.9	61.4	5 500*	43.5	62.6	5 900*	47.1	64.2	6 700*	50.5	65.5	7 500*	55.7	67.0	9 200*				34.0			
35.0	38.6	60.1	5 100*	41.3	61.5	5 500*	45.1	63.2	6 300*	48.6	64.6	7 100*	53.9	66.2	8 600*				35.0			
36.0	36.2	58.8	4 800*	39.0	60.3	5 200*	43.0	62.1	5 900*	46.6	63.6	6 600*	52.1	65.5	8 000*				36.0			
37.0	33.6	57.3	4 400*	36.6	58.9	4 800*	40.7	61.0	5 500*	44.5	62.6	6 200*	50.2	64.6	7 500*	55.3	65.9	9 000*	37.0			
38.0	30.8	55.6	4 100*	34.0	57.5	4 500*	38.4	59.7	5 100*	42.4	61.5	5 800*	48.3	63.7	7 000*	53.5	65.1	8 400*	38.0			
39.0	27.8	53.8	3 700*	31.3	55.8	4 200*	36.0	58.4	4 800*	40.1	60.4	5 400*	46.3	62.8	6 600*	51.7	64.3	7 900*	39.0			
40.0	24.3	51.7	3 400*	28.3	54.0	3 900*	33.4	56.9	4 500*	37.8	59.1	5 000*	44.2	61.8	6 100*	49.8	63.5	7 400*	40.0			
42.0				21.1	49.5	3 100*				27.5	53.3	3 900*	32.6	56.1	4 400*	39.8	59.5	5 300*	45.8	61.6	6 400	42.0
44.0										20.0	48.6	3 100*	26.6	52.5	3 900*	34.9	56.8	4 700*	41.5	59.5	5 400	44.0
46.0													18.7	47.5	2 900*	29.3	53.4	4 100*	36.8	56.9	4 400	46.0
48.0																22.4	49.1	3 400*	31.5	53.9	3 600	48.0
50.0																12.0	42.3	2 100*	25.3	50.0	2 800	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 36.6m (120 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

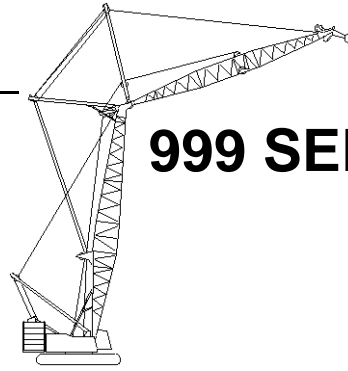
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
10.7	58.7	49.0	18 000*b																10.7
11.0	56.8	48.8	17 100*b																11.0
12.0	50.6	47.9	14 400*																12.0
13.0	43.8	46.9	12 300*	52.4	48.1	15 200*													13.0
14.0	35.9	45.6	10 700*	45.8	47.1	12 800*	57.8	48.6	17 800*b										14.0
15.0	25.7	43.7	9 400*	38.2	45.9	11 200*	51.8	47.8	15 000*										15.0
16.0				28.9	44.2	9 800*	45.1	46.8	12 700*										16.0
17.0							37.4	45.5	11 100*	51.1	47.4	14 800*							17.0
18.0							27.8	43.8	9 700*	44.3	46.4	12 700*							18.0
19.0										36.5	45.0	10 900*							19.0
20.0													51.7	46.7	15 100*				20.0
21.0													45.0	45.7	13 000*				21.0
22.0													37.4	44.4	11 200*				22.0
23.0																51.9	45.7	15 300*	23.0
24.0																45.2	44.7	13 200*	24.0
25.0																37.6	43.5	11 300*	25.0

### 36.6m (120 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
10.7	58.7	49.0	15 000*																10.7
11.0	56.8	48.8	14 300*																11.0
12.0	50.6	47.9	12 000*																12.0
13.0	43.8	46.9	10 200*	52.4	48.1	12 700*													13.0
14.0	35.9	45.6	8 800*	45.8	47.1	10 700*	57.8	48.6	14 900*										14.0
15.0	25.7	43.7	7 700*	38.2	45.9	9 200*	51.8	47.8	12 500*										15.0
16.0				28.9	44.2	8 000*	45.1	46.8	10 500*	57.2	48.2	14 800*							16.0
17.0							37.4	45.5	9 100*	51.1	47.4	12 200*							17.0
18.0							27.8	43.8	7 900*	44.3	46.4	10 400*							18.0
19.0										36.5	45.0	9 000*	57.8	47.5	15 200*				19.0
20.0													51.7	46.7	12 500*				20.0
21.0													45.0	45.7	10 600*				21.0
22.0													37.4	44.4	9 200*				22.0
23.0																51.9	45.7	12 700*	23.0
24.0																45.2	44.7	10 900*	24.0
25.0																37.6	43.5	9 300*	25.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 36.6m (120 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

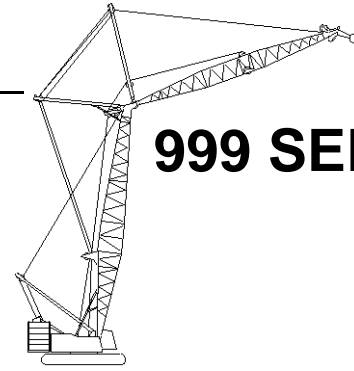
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	58.7	49.0	13 300*	65.7	49.7	17 500*b													10.7
11.0	56.8	48.8	12 600*	64.0	49.5	16 500*b													11.0
12.0	50.6	47.9	10 500*	58.4	48.9	13 300*													12.0
13.0	43.8	46.9	8 900*	52.4	48.1	10 900*													13.0
14.0	35.9	45.6	7 700*	45.8	47.1	9 300*	57.8	48.6	13 100*										14.0
15.0	25.7	43.7	6 700*	38.2	45.9	8 000*	51.8	47.8	10 900*										15.0
16.0				28.9	44.2	6 900*	45.1	46.8	9 200*	57.2	48.2	13 000*							
17.0							37.4	45.5	8 000*	51.1	47.4	10 700*							17.0
18.0							27.8	43.8	6 900*	44.3	46.4	9 100*							18.0
19.0										36.5	45.0	7 800*	57.8	47.5	13 400*				19.0
20.0													51.7	46.7	11 000*				20.0
21.0													45.0	45.7	9 300*				21.0
22.0													37.4	44.4	8 000*				22.0
23.0																51.9	45.7	11 200*	23.0
24.0																45.2	44.7	9 500*	24.0
25.0																37.6	43.5	8 100*	25.0

### 36.6m (120 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	65.7	52.5	19 200*	70.9	53.0	25 400*b													10.7
11.0	64.2	52.4	18 200*	69.6	52.9	23 900*b													11.0
12.0	59.8	51.8	15 300*	65.4	52.4	19 300*													12.0
13.0	55.2	51.1	13 000*	61.1	51.8	15 800*													13.0
14.0	50.3	50.2	11 300*	56.5	51.2	13 600*	65.0	52.1	19 100*										14.0
15.0	45.0	49.2	9 900*	51.7	50.4	11 700*	60.6	51.6	15 900*										15.0
16.0	39.0	48.0	8 700*	46.5	49.4	10 200*	56.1	50.9	13 400*	64.5	51.8	18 900*							16.0
17.0	32.1	46.5	7 800*	40.7	48.3	9 000*	51.2	50.1	11 700*	60.1	51.2	15 500*							17.0
18.0	23.2	44.4	6 900*	34.1	46.9	8 000*	45.9	49.1	10 200*	55.5	50.5	13 200*							18.0
19.0				25.9	45.0	7 100*	40.1	48.0	9 000*	50.6	49.7	11 500*							19.0
20.0							33.4	46.5	8 000*	45.3	48.7	10 100*	60.6	50.5	16 100*				20.0
21.0							25.0	44.5	7 100*	39.4	47.5	8 900*	56.0	49.8	13 700*				21.0
22.0										32.6	46.0	7 900*	51.2	49.0	11 800*				22.0
23.0													45.9	48.0	10 300*				23.0
24.0													40.1	46.9	9 100*				24.0
25.0													33.3	45.4	8 000*				25.0
26.0																51.3	48.0	12 000*	26.0
27.0																46.0	47.1	10 400*	27.0
28.0																40.2	45.9	9 200*	28.0
																33.5	44.4	8 100*	



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 36.6m (120 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

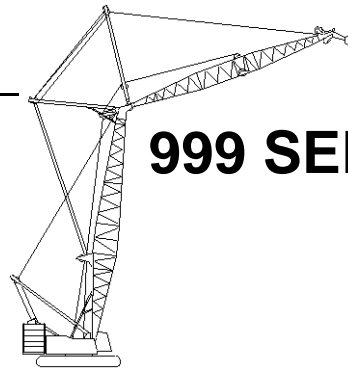
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	67.1	49.9	17 200*																9.1
10.0	62.5	49.4	14 500*																10.0
11.0	56.8	48.8	11 600*	64.0	49.5	15 300*													11.0
12.0	50.6	47.9	9 800*	58.4	48.9	12 400*													12.0
13.0	43.8	46.9	8 400*	52.4	48.1	10 200*	63.4	49.2	15 200*										13.0
14.0	35.9	45.6	7 300*	45.8	47.1	8 800*	57.8	48.6	12 100*										14.0
15.0	25.7	43.7	6 400*	38.2	45.9	7 600*	51.8	47.8	10 100*										15.0
16.0				28.9	44.2	6 600*	45.1	46.8	8 700*	57.2	48.2	12 100*							16.0
17.0							37.4	45.5	7 500*	51.1	47.4	10 000*							17.0
18.0							27.8	43.8	6 500*	44.3	46.4	8 600*							18.0
19.0										36.5	45.0	7 400*	57.8	47.5	12 500*				19.0
20.0													51.7	46.7	10 300*				20.0
21.0													45.0	45.7	8 700*				21.0
22.0													37.4	44.4	7 600*				22.0
23.0																51.9	45.7	10 400*	23.0
24.0																45.2	44.7	8 900*	24.0
25.0																37.6	43.5	7 600*	25.0

### 36.6m (120 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	72.0	53.2	24 000*																9.1
10.0	68.5	52.8	20 200*																10.0
11.0	64.2	52.4	16 100*	69.6	52.9	21 300*													11.0
12.0	59.8	51.8	13 600*	65.4	52.4	17 300*													12.0
13.0	55.2	51.1	11 600*	61.1	51.8	14 200*													13.0
14.0	50.3	50.2	10 100*	56.5	51.2	12 100*	65.0	52.1	17 000*										14.0
15.0	45.0	49.2	8 800*	51.7	50.4	10 500*	60.6	51.6	14 200*										15.0
16.0	39.0	48.0	7 800*	46.5	49.4	9 200*	56.1	50.9	12 000*	64.5	51.8	16 900*							16.0
17.0	32.1	46.5	6 900*	40.7	48.3	8 100*	51.2	50.1	10 400*	60.1	51.2	13 900*							17.0
18.0	23.2	44.4	6 100*	34.1	46.9	7 200*	45.9	49.1	9 100*	55.5	50.5	11 800*							18.0
19.0				25.9	45.0	6 400*	40.1	48.0	8 000*	50.6	49.7	10 300*							19.0
20.0							33.4	46.5	7 100*	45.3	48.7	9 000*	60.6	50.5	14 300*				20.0
21.0							25.0	44.5	6 300*	39.4	47.5	7 900*	56.0	49.8	12 300*				21.0
22.0										32.6	46.0	7 000*	51.2	49.0	10 500*				22.0
23.0													45.9	48.0	9 200*				23.0
24.0													40.1	46.9	8 100*				24.0
25.0													33.3	45.4	7 100*	51.3	48.0	10 700*	25.0
26.0																46.0	47.1	9 300*	26.0
27.0																40.2	45.9	8 200*	27.0
28.0																33.5	44.4	7 200*	28.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

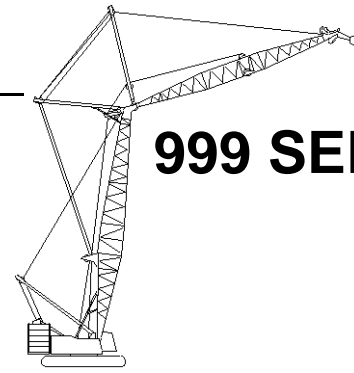
## 36.6m (120 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	75.1	56.4	26 700*																9.1
10.0	72.2	56.1	24 000*																10.0
11.0	68.9	55.7	20 800*																11.0
12.0	65.4	55.3	17 400*																12.0
13.0	61.8	54.7	14 700*	66.3	55.3	18 400*													13.0
14.0	58.1	54.1	12 900*	62.8	54.8	15 400*	69.5	55.5	21 600*										14.0
15.0	54.2	53.4	11 300*	59.1	54.2	13 400*	66.0	55.0	18 100*										15.0
16.0	50.1	52.5	9 900*	55.3	53.5	11 700*	62.4	54.5	15 200*										16.0
17.0	45.7	51.6	8 900*	51.2	52.7	10 300*	58.7	53.9	13 200*	65.6	54.7	17 800*							17.0
18.0	40.9	50.4	7 900*	46.9	51.8	9 200*	54.9	53.2	11 600*	62.0	54.1	15 200*							18.0
19.0	35.6	49.1	7 100*	42.3	50.7	8 200*	50.8	52.4	10 300*	58.3	53.5	13 100*							19.0
20.0	29.3	47.4	6 400*	37.1	49.4	7 400*	46.5	51.4	9 100*	54.4	52.8	11 500*							20.0
21.0	21.4	45.0	5 800*	31.2	47.8	6 700*	41.8	50.3	8 200*	50.4	52.0	10 200*							21.0
22.0				23.8	45.7	6 000*	36.6	49.0	7 300*	46.0	51.0	9 100*	58.7	52.8	13 500*				22.0
23.0							30.5	47.4	6 600*	41.2	49.9	8 100*	54.9	52.1	11 700*				23.0
24.0							23.0	45.2	6 000*	35.9	48.5	7 300*	50.8	51.3	10 300*				24.0
25.0										29.8	46.8	6 600*	46.4	50.4	9 200*				25.0
26.0													41.7	49.2	8 300*	55.0	51.1	11 800*	26.0
27.0													36.5	47.9	7 400*	50.9	50.3	10 500*	27.0
28.0													30.5	46.3	6 700*	46.6	49.4	9 300*	28.0
29.0																41.9	48.3	8 300*	29.0
30.0																36.6	46.9	7 500*	30.0
31.0																30.6	45.3	6 700*	31.0
32.0																23.1	43.2	6 100*	32.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

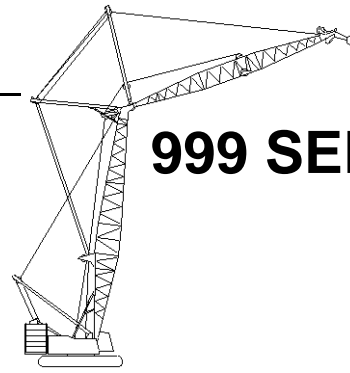
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 36.6m (120 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	73.0	59.1	26 700*																10.7
11.0	72.0	59.0	25 700*																11.0
12.0	69.2	58.6	22 500*																12.0
13.0	66.2	58.2	19 500*	69.9	58.6	23 700*													13.0
14.0	63.2	57.7	16 800*	67.0	58.2	20 200*													14.0
15.0	60.0	57.1	14 800*	64.0	57.7	17 500*													15.0
16.0	56.8	56.4	13 100*	60.9	57.1	15 300*	66.7	57.9	20 200*										16.0
17.0	53.4	55.7	11 700*	57.7	56.5	13 600*	63.7	57.4	17 400*										17.0
18.0	49.9	54.8	10 500*	54.4	55.8	12 100*	60.6	56.9	15 200*										18.0
19.0	46.2	53.9	9 500*	50.9	55.0	10 900*	57.4	56.2	13 500*	63.4	57.1	17 300*							19.0
20.0	42.2	52.8	8 600*	47.2	54.1	9 800*	54.1	55.5	12 000*	60.2	56.5	15 100*							20.0
21.0	37.8	51.5	7 800*	43.3	53.0	8 800*	50.6	54.7	10 800*	57.0	55.8	13 400*							21.0
22.0	33.0	50.0	7 100*	39.1	51.8	8 000*	46.9	53.7	9 700*	53.7	55.1	11 900*							22.0
23.0	27.3	48.2	6 500*	34.4	50.4	7 300*	42.9	52.7	8 800*	50.2	54.3	10 700*	60.6	55.8	15 400*				23.0
24.0	20.0	45.7	5 900*	28.9	48.6	6 700*	38.6	51.4	8 000*	46.4	53.3	9 700*	57.4	55.2	13 700*				24.0
25.0				22.2	46.4	6 100*	33.9	50.0	7 300*	42.5	52.2	8 800*	54.0	54.4	12 200*				25.0
26.0							28.4	48.2	6 700*	38.1	51.0	8 000*	50.5	53.6	11 000*				26.0
27.0							21.5	45.9	6 100*	33.3	49.5	7 300*	46.8	52.7	9 900*				27.0
28.0										27.7	47.7	6 600*	42.9	51.6	8 900*	54.1	53.4	12 300*	28.0
29.0													38.6	50.4	8 100*	50.6	52.6	11 000*	29.0
30.0													33.8	48.9	7 400*	46.9	51.7	9 900*	30.0
31.0													28.3	47.1	6 700*	43.0	50.6	9 000*	31.0
32.0													21.4	44.8	6 200*	38.7	49.4	8 200*	32.0
33.0																33.9	47.9	7 500*	33.0
34.0																28.4	46.2	6 800*	34.0
35.0																21.6	43.8	6 200*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

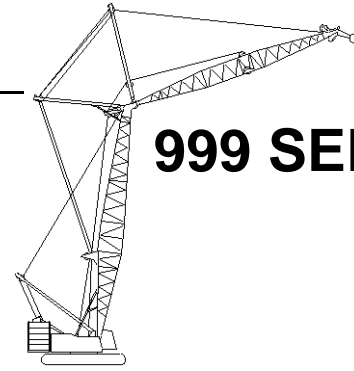
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 36.6m (120 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.2	62.3	26 700*																10.7
11.0	74.4	62.2	26 600*																11.0
12.0	71.9	61.9	26 400*																12.0
13.0	69.4	61.5	24 300*																13.0
14.0	66.8	61.1	20 400*	70.1	61.5	24 500*													14.0
15.0	64.2	60.6	18 000*	67.5	61.1	21 400*													15.0
16.0	61.5	60.0	16 000*	64.9	60.6	18 700*													16.0
17.0	58.7	59.4	14 400*	62.2	60.1	16 600*	67.3	60.8	21 100*										17.0
18.0	55.9	58.7	13 000*	59.5	59.5	14 800*	64.6	60.4	18 600*										18.0
19.0	52.9	58.0	11 700*	56.6	58.8	13 400*	62.0	59.8	16 500*										19.0
20.0	49.8	57.1	10 700*	53.7	58.1	12 100*	59.2	59.2	14 800*	64.3	60.0	18 400*							20.0
21.0	46.6	56.2	9 800*	50.7	57.3	11 000*	56.4	58.5	13 300*	61.7	59.4	16 400*							21.0
22.0	43.1	55.1	8 900*	47.5	56.4	10 000*	53.4	57.8	12 100*	58.9	58.8	14 700*							22.0
23.0	39.4	53.9	8 200*	44.1	55.3	9 200*	50.4	57.0	11 000*	56.0	58.2	13 200*							23.0
24.0	35.4	52.5	7 500*	40.5	54.2	8 400*	47.1	56.1	10 000*	53.1	57.4	12 000*							24.0
25.0	30.9	50.9	6 900*	36.5	52.8	7 800*	43.7	55.0	9 200*	50.0	56.6	10 900*	59.2	58.1	15 000*				25.0
26.0	25.6	48.9	6 400*	32.2	51.3	7 200*	40.1	53.8	8 400*	46.8	55.6	10 000*	56.3	57.5	13 500*				26.0
27.0	19.0	46.3	6 000*	27.2	49.4	6 600*	36.1	52.5	7 700*	43.3	54.6	9 100*	53.4	56.7	12 200*				27.0
28.0				21.0	47.0	6 100*	31.7	50.9	7 100*	39.7	53.4	8 400*	50.3	55.9	11 100*				28.0
29.0							26.6	49.0	6 600*	35.7	52.0	7 700*	47.1	55.0	10 200*	56.4	56.5	13 600*	29.0
30.0							20.3	46.5	6 100*	31.2	50.4	7 100*	43.7	53.9	9 300*	53.5	55.7	12 400*	30.0
31.0										26.0	48.4	6 600*	40.1	52.8	8 500*	50.4	54.9	11 200*	31.0
32.0										19.5	45.9	6 100*	36.1	51.4	7 900*	47.2	54.0	10 300*	32.0
33.0													31.7	49.8	7 300*	43.8	52.9	9 400*	33.0
34.0													26.6	47.9	6 700*	40.2	51.8	8 600*	34.0
35.0													20.3	45.4	6 200*	36.2	50.4	8 000*	35.0
36.0																31.8	48.9	7 400*	36.0
37.0																26.7	47.0	6 800*	37.0
38.0																20.4	44.5	6 300*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

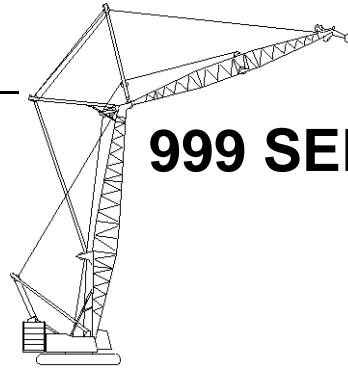
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 36.6m (120 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.6	65.0	26 700*																12.2
13.0	71.8	64.8	26 600*																13.0
14.0	69.5	64.4	26 000*	72.4	64.8	26 600*													14.0
15.0	67.3	64.0	23 200*	70.2	64.4	26 000*													15.0
16.0	64.9	63.5	20 500*	67.9	64.0	24 300*													16.0
17.0	62.6	63.0	18 600*	65.6	63.5	21 300*	69.9	64.1	26 100*										17.0
18.0	60.2	62.4	16 800*	63.2	63.0	19 100*	67.7	63.7	23 600*										18.0
19.0	57.7	61.7	15 200*	60.8	62.5	17 300*	65.4	63.3	21 200*										19.0
20.0	55.1	61.0	13 900*	58.4	61.8	15 700*	63.0	62.7	19 100*	67.4	63.4	23 600*							20.0
21.0	52.5	60.3	12 700*	55.8	61.2	14 300*	60.6	62.2	17 200*	65.1	62.9	21 100*							21.0
22.0	49.7	59.4	11 700*	53.2	60.4	13 100*	58.1	61.6	15 700*	62.7	62.4	18 900*							22.0
23.0	46.8	58.5	10 800*	50.5	59.6	12 000*	55.6	60.9	14 300*	60.3	61.8	17 100*							23.0
24.0	43.8	57.5	9 900*	47.6	58.7	11 100*	52.9	60.1	13 100*	57.8	61.2	15 600*							24.0
25.0	40.6	56.3	9 200*	44.7	57.7	10 200*	50.2	59.3	12 000*	55.3	60.5	14 200*							25.0
26.0	37.2	55.0	8 500*	41.5	56.5	9 500*	47.4	58.4	11 100*	52.6	59.7	13 000*	60.6	61.1	17 400*				26.0
27.0	33.4	53.5	7 900*	38.1	55.3	8 800*	44.4	57.3	10 200*	49.9	58.9	12 000*	58.1	60.5	15 900*				27.0
28.0	29.2	51.8	7 300*	34.5	53.9	8 100*	41.2	56.2	9 500*	47.0	57.9	11 000*	55.5	59.8	14 500*				28.0
29.0	24.3	49.7	6 800*	30.4	52.2	7 500*	37.8	54.9	8 800*	44.0	56.9	10 200*	52.9	59.0	13 300*				29.0
30.0	18.1	46.9	6 400*	25.7	50.2	7 000*	34.1	53.5	8 100*	40.8	55.8	9 500*	50.2	58.2	12 200*				30.0
31.0				20.0	47.7	6 500*	30.0	51.8	7 500*	37.4	54.5	8 800*	47.3	57.3	11 300*	55.6	58.8	14 600*	31.0
32.0				11.6	43.8	6 100*	25.2	49.8	7 000*	33.7	53.0	8 100*	44.3	56.3	10 400*	53.0	58.0	13 400*	32.0
33.0							19.4	47.2	6 500*	29.5	51.3	7 500*	41.2	55.1	9 600*	50.2	57.2	12 300*	33.0
34.0										24.7	49.2	7 000*	37.8	53.9	8 900*	47.4	56.3	11 400*	34.0
35.0										18.6	46.5	6 500*	34.1	52.4	8 300*	44.4	55.3	10 500*	35.0
36.0													30.0	50.7	7 700*	41.2	54.1	9 700*	36.0
37.0													25.2	48.7	7 200*	37.9	52.9	9 000*	37.0
38.0													19.3	46.1	6 700*	34.2	51.4	8 400*	38.0
39.0																30.1	49.7	7 800*	39.0
40.0																25.3	47.7	7 300*	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

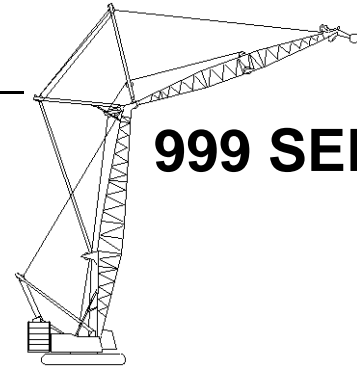
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 36.6m (120 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.2	62.3	26 700*																10.7
11.0	74.4	62.2	26 200*																11.0
12.0	71.9	61.9	24 700*																12.0
13.0	69.4	61.5	22 100*																13.0
14.0	66.8	61.1	18 900*	70.1	61.5	22 700*													14.0
15.0	64.2	60.6	16 600*	67.5	61.1	19 700*													15.0
16.0	61.5	60.0	14 800*	64.9	60.6	17 200*													16.0
17.0	58.7	59.4	13 300*	62.2	60.1	15 300*	67.3	60.8	19 500*										17.0
18.0	55.9	58.7	11 900*	59.5	59.5	13 700*	64.6	60.4	17 200*										18.0
19.0	52.9	58.0	10 800*	56.6	58.8	12 300*	62.0	59.8	15 200*										19.0
20.0	49.8	57.1	9 800*	53.7	58.1	11 200*	59.2	59.2	13 600*	64.3	60.0	17 000*							20.0
21.0	46.6	56.2	9 000*	50.7	57.3	10 100*	56.4	58.5	12 300*	61.7	59.4	15 200*							21.0
22.0	43.1	55.1	8 200*	47.5	56.4	9 300*	53.4	57.8	11 100*	58.9	58.8	13 500*							22.0
23.0	39.4	53.9	7 500*	44.1	55.3	8 500*	50.4	57.0	10 100*	56.0	58.2	12 200*							23.0
24.0	35.4	52.5	6 900*	40.5	54.2	7 800*	47.1	56.1	9 200*	53.1	57.4	11 100*							24.0
25.0	30.9	50.9	6 400*	36.5	52.8	7 100*	43.7	55.0	8 500*	50.0	56.6	10 100*	59.2	58.1	13 900*				25.0
26.0	25.6	48.9	5 900*	32.2	51.3	6 600*	40.1	53.8	7 800*	46.8	55.6	9 200*	56.3	57.5	12 400*				26.0
27.0	19.0	46.3	5 500*	27.2	49.4	6 100*	36.1	52.5	7 100*	43.3	54.6	8 400*	53.4	56.7	11 300*				27.0
28.0				21.0	47.0	5 600*	31.7	50.9	6 600*	39.7	53.4	7 700*	50.3	55.9	10 300*				28.0
29.0							26.6	49.0	6 100*	35.7	52.0	7 100*	47.1	55.0	9 400*	56.4	56.5	12 600*	29.0
30.0							20.3	46.5	5 600*	31.2	50.4	6 600*	43.7	53.9	8 600*	53.5	55.7	11 400*	30.0
31.0										26.0	48.4	6 000*	40.1	52.8	7 900*	50.4	54.9	10 400*	31.0
32.0										19.5	45.9	5 600*	36.1	51.4	7 300*	47.2	54.0	9 500*	32.0
33.0													31.7	49.8	6 700*	43.8	52.9	8 700*	33.0
34.0													26.6	47.9	6 200*	40.2	51.8	8 000*	34.0
35.0													20.3	45.4	5 700*	36.2	50.4	7 300*	35.0
36.0																31.8	48.9	6 800*	36.0
37.0																26.7	47.0	6 300*	37.0
38.0																20.4	44.5	5 800*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

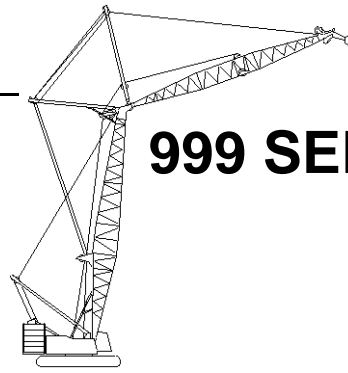
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 36.6m (120 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.6	65.0	26 700*																12.2
13.0	71.8	64.8	25 800*																13.0
14.0	69.5	64.4	24 300*	72.4	64.8	26 200*													14.0
15.0	67.3	64.0	21 500*	70.2	64.4	24 500*													15.0
16.0	64.9	63.5	18 900*	67.9	64.0	22 300*													16.0
17.0	62.6	63.0	17 000*	65.6	63.5	19 600*	69.9	64.1	24 700*										17.0
18.0	60.2	62.4	15 300*	63.2	63.0	17 500*	67.7	63.7	21 900*										18.0
19.0	57.7	61.7	13 900*	60.8	62.5	15 800*	65.4	63.3	19 400*										19.0
20.0	55.1	61.0	12 700*	58.4	61.8	14 400*	63.0	62.7	17 500*	67.4	63.4	21 600*							20.0
21.0	52.5	60.3	11 600*	55.8	61.2	13 100*	60.6	62.2	15 800*	65.1	62.9	19 400*							21.0
22.0	49.7	59.4	10 700*	53.2	60.4	12 000*	58.1	61.6	14 300*	62.7	62.4	17 300*							22.0
23.0	46.8	58.5	9 800*	50.5	59.6	11 000*	55.6	60.9	13 100*	60.3	61.8	15 700*							23.0
24.0	43.8	57.5	9 000*	47.6	58.7	10 100*	52.9	60.1	12 000*	57.8	61.2	14 300*							24.0
25.0	40.6	56.3	8 300*	44.7	57.7	9 300*	50.2	59.3	11 000*	55.3	60.5	13 000*							25.0
26.0	37.2	55.0	7 700*	41.5	56.5	8 600*	47.4	58.4	10 100*	52.6	59.7	11 900*	60.6	61.1	16 000*				26.0
27.0	33.4	53.5	7 200*	38.1	55.3	8 000*	44.4	57.3	9 300*	49.9	58.9	10 900*	58.1	60.5	14 500*				27.0
28.0	29.2	51.8	6 600*	34.5	53.9	7 400*	41.2	56.2	8 600*	47.0	57.9	10 100*	55.5	59.8	13 200*				28.0
29.0	24.3	49.7	6 200*	30.4	52.2	6 800*	37.8	54.9	8 000*	44.0	56.9	9 300*	52.9	59.0	12 200*				29.0
30.0	18.1	46.9	5 800*	25.7	50.2	6 300*	34.1	53.5	7 400*	40.8	55.8	8 600*	50.2	58.2	11 200*				30.0
31.0				20.0	47.7	5 900*	30.0	51.8	6 800*	37.4	54.5	8 000*	47.3	57.3	10 300*	55.6	58.8	13 400*	31.0
32.0				11.6	43.8	5 500*	25.2	49.8	6 400*	33.7	53.0	7 400*	44.3	56.3	9 500*	53.0	58.0	12 200*	32.0
33.0							19.4	47.2	5 900*	29.5	51.3	6 900*	41.2	55.1	8 800*	50.2	57.2	11 300*	33.0
34.0										24.7	49.2	6 400*	37.8	53.9	8 100*	47.4	56.3	10 400*	34.0
35.0										18.6	46.5	6 000*	34.1	52.4	7 600*	44.4	55.3	9 600*	35.0
36.0													30.0	50.7	7 000*	41.2	54.1	8 900*	36.0
37.0													25.2	48.7	6 500*	37.9	52.9	8 300*	37.0
38.0													19.3	46.1	6 100*	34.2	51.4	7 700*	38.0
39.0																30.1	49.7	7 100*	39.0
40.0																25.3	47.7	6 600*	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

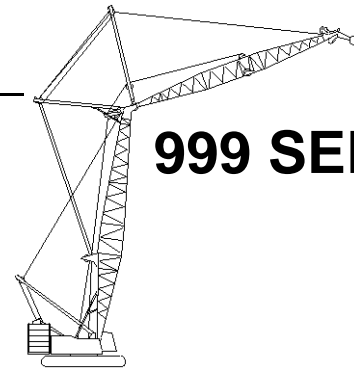
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 36.6m (120 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.2	62.3	26 700*																10.7
11.0	74.4	62.2	25 800*																11.0
12.0	71.9	61.9	23 100*																12.0
13.0	69.4	61.5	20 200*																13.0
14.0	66.8	61.1	17 500*	70.1	61.5	21 000*													14.0
15.0	64.2	60.6	15 400*	67.5	61.1	18 300*													15.0
16.0	61.5	60.0	13 700*	64.9	60.6	16 000*													16.0
17.0	58.7	59.4	12 200*	62.2	60.1	14 200*	67.3	60.8	18 100*										17.0
18.0	55.9	58.7	11 000*	59.5	59.5	12 700*	64.6	60.4	15 900*										18.0
19.0	52.9	58.0	10 000*	56.6	58.8	11 400*	62.0	59.8	14 100*										19.0
20.0	49.8	57.1	9 100*	53.7	58.1	10 300*	59.2	59.2	12 600*	64.3	60.0	15 800*							20.0
21.0	46.6	56.2	8 300*	50.7	57.3	9 400*	56.4	58.5	11 400*	61.7	59.4	14 000*							21.0
22.0	43.1	55.1	7 600*	47.5	56.4	8 500*	53.4	57.8	10 300*	58.9	58.8	12 500*							22.0
23.0	39.4	53.9	6 900*	44.1	55.3	7 800*	50.4	57.0	9 300*	56.0	58.2	11 300*							23.0
24.0	35.4	52.5	6 400*	40.5	54.2	7 100*	47.1	56.1	8 500*	53.1	57.4	10 200*							24.0
25.0	30.9	50.9	5 900*	36.5	52.8	6 500*	43.7	55.0	7 800*	50.0	56.6	9 300*	59.2	58.1	12 800*				25.0
26.0	25.6	48.9	5 400*	32.2	51.3	6 000*	40.1	53.8	7 200*	46.8	55.6	8 500*	56.3	57.5	11 500*				26.0
27.0	19.0	46.3	5 000*	27.2	49.4	5 600*	36.1	52.5	6 600*	43.3	54.6	7 800*	53.4	56.7	10 400*				27.0
28.0				21.0	47.0	5 200*	31.7	50.9	6 000*	39.7	53.4	7 100*	50.3	55.9	9 500*				28.0
29.0							26.6	49.0	5 600*	35.7	52.0	6 500*	47.1	55.0	8 700*	56.4	56.5	11 600*	29.0
30.0							20.3	46.5	5 100*	31.2	50.4	6 000*	43.7	53.9	7 900*	53.5	55.7	10 600*	30.0
31.0										26.0	48.4	5 600*	40.1	52.8	7 300*	50.4	54.9	9 600*	31.0
32.0										19.5	45.9	5 100*	36.1	51.4	6 700*	47.2	54.0	8 800*	32.0
33.0													31.7	49.8	6 200*	43.8	52.9	8 000*	33.0
34.0													26.6	47.9	5 700*	40.2	51.8	7 400*	34.0
35.0													20.3	45.4	5 200*	36.2	50.4	6 800*	35.0
36.0																31.8	48.9	6 200*	36.0
37.0																26.7	47.0	5 700*	37.0
38.0																20.4	44.5	5 300*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

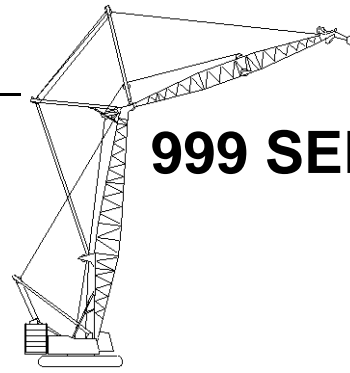
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 36.6m (120 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.6	65.0	26 700*																12.2
13.0	71.8	64.8	24 700*																13.0
14.0	69.5	64.4	22 200*	72.4	64.8	25 900*													14.0
15.0	67.3	64.0	19 600*	70.2	64.4	22 900*													15.0
16.0	64.9	63.5	17 400*	67.9	64.0	20 300*													16.0
17.0	62.6	63.0	15 600*	65.6	63.5	18 000*	69.9	64.1	22 800*										17.0
18.0	60.2	62.4	14 100*	63.2	63.0	16 200*	67.7	63.7	20 200*										18.0
19.0	57.7	61.7	12 800*	60.8	62.5	14 600*	65.4	63.3	17 900*										19.0
20.0	55.1	61.0	11 600*	58.4	61.8	13 200*	63.0	62.7	16 100*	67.4	63.4	19 900*							20.0
21.0	52.5	60.3	10 600*	55.8	61.2	12 000*	60.6	62.2	14 500*	65.1	62.9	17 800*							21.0
22.0	49.7	59.4	9 800*	53.2	60.4	11 000*	58.1	61.6	13 200*	62.7	62.4	16 000*							22.0
23.0	46.8	58.5	9 000*	50.5	59.6	10 100*	55.6	60.9	12 000*	60.3	61.8	14 400*							23.0
24.0	43.8	57.5	8 300*	47.6	58.7	9 300*	52.9	60.1	11 000*	57.8	61.2	13 100*							24.0
25.0	40.6	56.3	7 600*	44.7	57.7	8 500*	50.2	59.3	10 100*	55.3	60.5	12 000*							25.0
26.0	37.2	55.0	7 100*	41.5	56.5	7 900*	47.4	58.4	9 300*	52.6	59.7	11 000*	60.6	61.1	14 700*				26.0
27.0	33.4	53.5	6 600*	38.1	55.3	7 300*	44.4	57.3	8 500*	49.9	58.9	10 100*	58.1	60.5	13 400*				27.0
28.0	29.2	51.8	6 100*	34.5	53.9	6 700*	41.2	56.2	7 900*	47.0	57.9	9 300*	55.5	59.8	12 200*				28.0
29.0	24.3	49.7	5 600*	30.4	52.2	6 200*	37.8	54.9	7 300*	44.0	56.9	8 500*	52.9	59.0	11 200*				29.0
30.0	18.1	46.9	5 300*	25.7	50.2	5 800*	34.1	53.5	6 800*	40.8	55.8	7 900*	50.2	58.2	10 200*				30.0
31.0				20.0	47.7	5 400*	30.0	51.8	6 300*	37.4	54.5	7 300*	47.3	57.3	9 400*	55.6	58.8	12 300*	31.0
32.0				11.6	43.8	5 100*	25.2	49.8	5 800*	33.7	53.0	6 800*	44.3	56.3	8 700*	53.0	58.0	11 200*	32.0
33.0							19.4	47.2	5 400*	29.5	51.3	6 300*	41.2	55.1	8 100*	50.2	57.2	10 300*	33.0
34.0										24.7	49.2	5 800*	37.8	53.9	7 500*	47.4	56.3	9 600*	34.0
35.0										18.6	46.5	5 400*	34.1	52.4	6 900*	44.4	55.3	8 800*	35.0
36.0													30.0	50.7	6 400*	41.2	54.1	8 200*	36.0
37.0													25.2	48.7	6 000*	37.9	52.9	7 600*	37.0
38.0													19.3	46.1	5 600*	34.2	51.4	7 000*	38.0
39.0																30.1	49.7	6 500*	39.0
40.0																25.3	47.7	6 000*	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

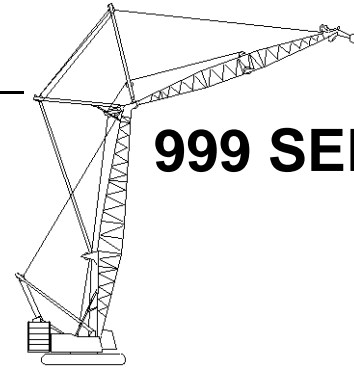
### 36.6m (120 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.3	68.2	26 700*																12.2
13.0	73.7	68.0	26 100*																13.0
14.0	71.7	67.6	25 000*																14.0
15.0	69.7	67.3	22 600*																15.0
16.0	67.6	66.8	20 300*	70.2	67.3	23 200*													16.0
17.0	65.5	66.4	18 300*	68.2	66.9	20 900*													17.0
18.0	63.4	65.9	16 600*	66.1	66.4	18 900*													18.0
19.0	61.3	65.3	15 000*	64.0	65.9	17 100*	68.0	66.6	20 800*										19.0
20.0	59.1	64.7	13 800*	61.9	65.4	15 500*	65.9	66.2	18 800*										20.0
21.0	56.8	64.1	12 600*	59.7	64.8	14 200*	63.8	65.7	17 100*										21.0
22.0	54.5	63.4	11 600*	57.4	64.2	13 000*	61.7	65.1	15 500*	65.7	65.8	18 700*							22.0
23.0	52.1	62.6	10 700*	55.1	63.5	11 900*	59.5	64.5	14 200*	63.6	65.3	16 900*							23.0
24.0	49.6	61.7	9 900*	52.8	62.7	11 000*	57.2	63.9	13 000*	61.4	64.7	15 400*							24.0
25.0	47.1	60.8	9 100*	50.3	61.9	10 200*	54.9	63.2	12 000*	59.2	64.1	14 100*							25.0
26.0	44.4	59.8	8 500*	47.8	61.0	9 400*	52.5	62.4	11 000*	57.0	63.5	13 000*							26.0
27.0	41.5	58.7	7 900*	45.1	60.0	8 700*	50.1	61.6	10 200*	54.7	62.8	11 900*							27.0
28.0	38.5	57.4	7 300*	42.3	58.9	8 100*	47.5	60.7	9 500*	52.3	62.0	11 000*	59.5	63.5	14 400*				28.0
29.0	35.3	56.0	6 800*	39.4	57.7	7 500*	44.9	59.7	8 800*	49.8	61.2	10 200*	57.2	62.8	13 200*				29.0
30.0	31.8	54.4	6 300*	36.2	56.3	7 000*	42.0	58.6	8 100*	47.2	60.2	9 500*	54.9	62.1	12 200*				30.0
31.0	27.8	52.6	5 900*	32.8	54.8	6 500*	39.1	57.3	7 600*	44.5	59.2	8 800*	52.5	61.3	11 200*				31.0
32.0	23.2	50.4	5 500*	28.9	53.0	6 100*	35.9	56.0	7 100*	41.7	58.1	8 200*	50.1	60.5	10 400*	57.3	61.8	13 100	32.0
33.0	17.5	47.5	5 200*	24.6	51.0	5 700*	32.4	54.4	6 600*	38.7	56.9	7 600*	47.5	59.6	9 700*	55.0	61.1	12 200	33.0
34.0				19.2	48.3	5 300*	28.5	52.6	6 100*	35.5	55.5	7 100*	44.8	58.6	9 000*	52.6	60.3	11 300	34.0
35.0				11.5	44.3	5 000*	24.1	50.5	5 700*	32.0	53.9	6 600*	42.0	57.5	8 400*	50.1	59.5	10 500	35.0
36.0							18.6	47.8	5 400*	28.1	52.1	6 200*	39.0	56.3	7 800*	47.6	58.6	9 700	36.0
37.0										23.5	49.9	5 800*	35.8	54.9	7 300*	44.9	57.6	9 000	37.0
38.0										17.9	47.1	5 400*	32.4	53.3	6 800*	42.1	56.5	8 300	38.0
39.0													28.5	51.6	6 300*	39.1	55.3	7 600	39.0
40.0													24.1	49.4	5 900*	35.9	53.9	7 000	40.0
42.0																28.6	50.6	5 800	42.0
44.0																18.7	45.7	4 700	44.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

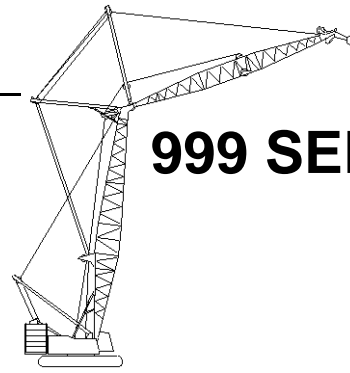
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 36.6m (120 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	73.9	70.9	24 800*																13.7
14.0	73.4	70.9	24 100*																14.0
15.0	71.6	70.5	21 700*																15.0
16.0	69.8	70.1	19 700*	72.1	70.5	22 500*													16.0
17.0	67.9	69.7	18 000*	70.3	70.2	20 300*													17.0
18.0	66.0	69.3	16 500*	68.4	69.8	18 400*													18.0
19.0	64.1	68.8	15 100*	66.6	69.3	16 900*													19.0
20.0	62.2	68.3	13 900*	64.7	68.8	15 500*	68.3	69.5	18 300*										20.0
21.0	60.2	67.7	12 900*	62.7	68.3	14 300*	66.4	69.1	16 800*										21.0
22.0	58.2	67.1	11 900*	60.8	67.8	13 200*	64.5	68.6	15 300*										22.0
23.0	56.1	66.4	11 000*	58.8	67.2	12 200*	62.5	68.1	14 200*	66.2	68.7	16 600*							23.0
24.0	54.0	65.7	10 100*	56.7	66.5	11 300*	60.6	67.5	13 100*	64.3	68.2	15 300*							24.0
25.0	51.8	64.9	9 300*	54.6	65.8	10 400*	58.6	66.9	12 100*	62.3	67.7	14 000*							25.0
26.0	49.6	64.0	8 500*	52.4	65.0	9 600*	56.5	66.2	11 300*	60.3	67.1	13 000*							26.0
27.0	47.2	63.1	7 900*	50.2	64.2	8 800*	54.4	65.5	10 400*	58.3	66.5	12 000*							27.0
28.0	44.8	62.1	7 300*	47.9	63.3	8 100*	52.2	64.7	9 700*	56.3	65.8	11 200*							28.0
29.0	42.3	61.0	6 700*	45.5	62.3	7 500*	50.0	63.9	8 900*	54.2	65.1	10 400*	60.6	66.4	13 100*				29.0
30.0	39.6	59.8	6 200*	43.0	61.2	7 000*	47.7	63.0	8 200*	52.0	64.3	9 600*	58.5	65.8	12 100*				30.0
31.0	36.8	58.5	5 700*	40.3	60.1	6 400*	45.3	62.0	7 600*	49.7	63.5	8 900*	56.5	65.1	11 300*				31.0
32.0	33.7	57.0	5 300*	37.5	58.8	5 900*	42.7	60.9	7 000*	47.4	62.5	8 200*	54.4	64.4	10 500*				32.0
33.0	30.4	55.3	4 900*	34.6	57.3	5 500*	40.1	59.7	6 500*	45.0	61.5	7 600*	52.2	63.6	9 800*				33.0
34.0	26.6	53.4	4 500*	31.3	55.7	5 100*	37.3	58.4	6 000*	42.4	60.5	7 000*	50.0	62.8	9 100*	56.5	64.1	11 300*	34.0
35.0	22.3	51.1	4 200*	27.7	53.9	4 700*	34.3	57.0	5 600*	39.8	59.3	6 500*	47.6	61.9	8 400*	54.4	63.4	10 500*	35.0
36.0	16.9	48.1	3 900*	23.6	51.7	4 400*	31.0	55.3	5 100*	36.9	57.9	6 000*	45.2	60.9	7 800*	52.3	62.6	9 800	36.0
37.0				18.5	48.9	4 000*	27.3	53.5	4 700*	33.9	56.5	5 600*	42.7	59.8	7 200*	50.0	61.8	9 000	37.0
38.0				11.4	44.9	3 300*	23.1	51.2	4 400*	30.6	54.8	5 200*	40.1	58.6	6 700*	47.7	60.9	8 400	38.0
39.0							18.0	48.4	4 100*	26.9	52.9	4 800*	37.2	57.3	6 200*	45.3	59.9	7 700	39.0
40.0										22.6	50.6	4 400*	34.2	55.9	5 700*	42.8	58.8	7 100	40.0
42.0													27.3	52.4	4 900*	37.3	56.4	6 000	42.0
44.0													17.9	47.3	4 200*	31.0	53.3	4 900	44.0
46.0																23.2	49.2	3 900	46.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

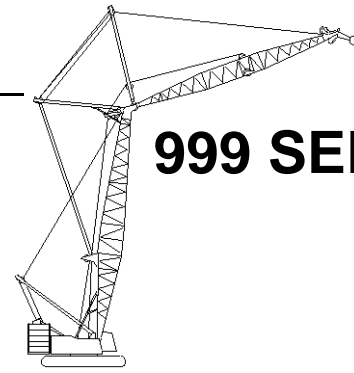
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 36.6m (120 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	75.3	74.1	26 700*																13.7
14.0	74.8	74.0	26 000*																14.0
15.0	73.2	73.7	23 700*																15.0
16.0	71.5	73.4	21 600*																16.0
17.0	69.9	73.0	19 800*	72.0	73.4	22 200*													17.0
18.0	68.2	72.6	18 200*	70.3	73.0	20 300*													18.0
19.0	66.5	72.2	16 800*	68.6	72.6	18 600*													19.0
20.0	64.7	71.7	15 500*	66.9	72.2	17 200*	70.2	72.8	20 100*										20.0
21.0	63.0	71.2	14 400*	65.2	71.7	15 900*	68.5	72.4	18 500*										21.0
22.0	61.2	70.6	13 400*	63.4	71.2	14 700*	66.8	71.9	17 000*										22.0
23.0	59.3	70.0	12 500*	61.6	70.7	13 700*	65.0	71.5	15 800*										23.0
24.0	57.5	69.4	11 700*	59.8	70.1	12 800*	63.3	71.0	14 600*										24.0
25.0	55.6	68.7	10 900*	58.0	69.5	11 900*	61.5	70.4	13 600*	64.8	71.1	15 700*						25.0	
26.0	53.6	68.0	10 200*	56.1	68.8	11 200*	59.7	69.8	12 700*	63.1	70.6	14 500*						26.0	
27.0	51.6	67.2	9 500*	54.1	68.1	10 500*	57.8	69.2	11 900*	61.3	70.0	13 500*						27.0	
28.0	49.5	66.3	8 800*	52.1	67.3	9 800*	55.9	68.5	11 100*	59.4	69.5	12 600*						28.0	
29.0	47.4	65.4	8 200*	50.1	66.5	9 100*	53.9	67.8	10 400*	57.6	68.8	11 800*						29.0	
30.0	45.2	64.4	7 600*	48.0	65.6	8 500*	52.0	67.0	9 800*	55.7	68.1	11 000*						30.0	
31.0	42.9	63.3	7 100*	45.8	64.6	7 900*	49.9	66.2	9 200*	53.7	67.4	10 300*	59.6	68.8	12 700*			31.0	
32.0	40.5	62.2	6 600*	43.5	63.6	7 300*	47.8	65.3	8 500*	51.7	66.6	9 700*	57.8	68.1	11 900*			32.0	
33.0	37.9	60.9	6 100*	41.1	62.4	6 800*	45.6	64.3	7 900*	49.7	65.8	9 100*	55.9	67.5	11 100*			33.0	
34.0	35.2	59.5	5 700*	38.6	61.2	6 300*	43.3	63.2	7 400*	47.5	64.8	8 600*	53.9	66.7	10 400*			34.0	
35.0	32.3	58.0	5 300*	36.0	59.8	5 900*	40.9	62.1	6 900*	45.3	63.9	8 000*	51.9	65.9	9 800*			35.0	
36.0	29.1	56.2	5 000*	33.1	58.3	5 500*	38.4	60.8	6 400*	43.0	62.8	7 400*	49.9	65.1	9 200*	55.9	66.5	10 000	36.0
37.0	25.6	54.2	4 600*	30.0	56.6	5 100*	35.7	59.5	6 000*	40.6	61.6	6 900*	47.8	64.2	8 700*	54.0	65.7	9 200	37.0
38.0	21.5	51.8	4 300*	26.6	54.7	4 800*	32.8	57.9	5 600*	38.1	60.4	6 400*	45.6	63.2	8 200*	52.0	64.9	8 500	38.0
39.0	16.4	48.7	3 300*	22.7	52.4	4 500*	29.7	56.2	5 200*	35.4	59.0	6 000*	43.3	62.2	7 600*	49.9	64.1	7 900	39.0
40.0				17.9	49.5	3 800*	26.3	54.3	4 900*	32.5	57.4	5 600*	40.9	61.0	7 100*	47.8	63.2	7 300	40.0
42.0							17.4	49.0	4 000*	25.9	53.7	4 900*	35.7	58.4	6 200*	43.3	61.2	6 200	42.0
44.0										16.8	48.3	4 200*	29.7	55.1	5 400*	38.4	58.8	5 100	44.0
46.0													22.2	50.8	4 700	32.9	55.9	4 200	46.0
48.0																26.3	52.2	3 300	48.0
50.0																17.5	47.0	2 500	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

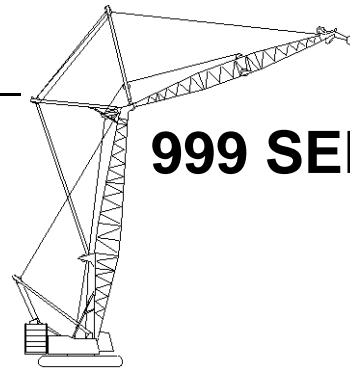
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 36.6m (120 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	74.2	76.8	22 300*																15.2
16.0	73.0	76.6	20 800*																16.0
17.0	71.5	76.3	19 000*	73.4	76.6	21 300*													17.0
18.0	69.9	75.9	17 500*	71.9	76.3	19 500*													18.0
19.0	68.4	75.5	16 100*	70.4	75.9	17 900*													19.0
20.0	66.8	75.1	14 800*	68.8	75.5	16 400*													20.0
21.0	65.2	74.6	13 700*	67.2	75.1	15 200*													21.0
22.0	63.6	74.1	12 700*	65.6	74.6	14 000*	68.7	75.3	16 400*										22.0
23.0	61.9	73.6	11 800*	64.0	74.2	13 000*	67.1	74.8	15 100*										23.0
24.0	60.3	73.0	11 000*	62.4	73.6	12 100*	65.5	74.4	14 000*										24.0
25.0	58.6	72.4	10 200*	60.7	73.1	11 200*	63.9	73.9	12 900*	66.9	74.5	15 000*							25.0
26.0	56.8	71.7	9 500*	59.0	72.5	10 400*	62.2	73.4	12 000*	65.3	74.0	13 800*							26.0
27.0	55.1	71.0	8 900*	57.3	71.8	9 700*	60.6	72.8	11 200*	63.7	73.5	12 800*							27.0
28.0	53.2	70.3	8 300*	55.5	71.1	9 100*	58.9	72.2	10 400*	62.0	73.0	11 900*							28.0
29.0	51.4	69.5	7 800*	53.7	70.4	8 500*	57.1	71.5	9 700*	60.4	72.4	11 100*							29.0
30.0	49.5	68.6	7 300*	51.9	69.6	7 900*	55.4	70.8	9 100*	58.7	71.8	10 300*							30.0
31.0	47.5	67.7	6 800*	50.0	68.8	7 400*	53.6	70.1	8 400*	56.9	71.1	9 600*							31.0
32.0	45.5	66.7	6 300*	48.1	67.9	6 900*	51.7	69.3	7 900*	55.2	70.4	9 000*	60.5	71.7	11 200*				32.0
33.0	43.4	65.7	5 900*	46.1	66.9	6 500*	49.8	68.5	7 400*	53.4	69.7	8 400*	58.9	71.1	10 400*				33.0
34.0	41.2	64.5	5 500*	44.0	65.9	6 100*	47.9	67.6	6 900*	51.5	68.9	7 900*	57.1	70.5	9 700*				34.0
35.0	38.9	63.3	5 200*	41.8	64.8	5 600*	45.9	66.6	6 500*	49.6	68.1	7 300*	55.4	69.8	9 100*				35.0
36.0	36.5	62.0	4 800*	39.5	63.6	5 300*	43.8	65.6	6 000*	47.7	67.1	6 900*	53.6	69.0	8 500*				36.0
37.0	33.9	60.5	4 400*	37.1	62.3	4 900*	41.6	64.4	5 600*	45.6	66.2	6 400*	51.7	68.2	7 900*	57.2	69.5	9 200	37.0
38.0	31.1	58.9	4 100*	34.6	60.8	4 600*	39.3	63.2	5 300*	43.5	65.1	6 000*	49.8	67.4	7 400*	55.4	68.8	8 500	38.0
39.0	28.1	57.0	3 800*	31.9	59.2	4 300*	36.9	61.9	4 900*	41.3	64.0	5 600*	47.9	66.5	6 900*	53.6	68.0	7 900	39.0
40.0	24.7	54.9	3 500*	28.9	57.5	3 900*	34.4	60.5	4 600*	39.0	62.8	5 300*	45.8	65.5	6 500*	51.8	67.2	7 300	40.0
42.0				22.0	53.1	3 300*	28.6	57.1	4 000*	34.1	60.0	4 600*	41.6	63.4	5 700*	47.9	65.5	6 200	42.0
44.0							21.6	52.6	3 300*	28.3	56.5	4 000*	36.9	60.8	5 000*	43.8	63.5	5 200	44.0
46.0										21.1	52.0	3 400*	31.6	57.8	4 400*	39.3	61.2	4 200	46.0
48.0													25.3	53.9	3 700*	34.4	58.4	3 400	48.0
50.0													16.9	48.5	2 800*	28.7	55.0	2 600	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 39.6m (130 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

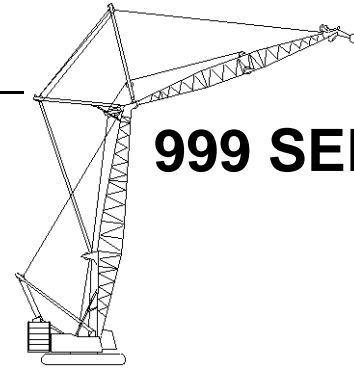
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	59.3	52.1	18 400*b																10.7
11.0	57.4	51.9	17 500*b																11.0
12.0	51.3	51.1	14 700*																12.0
13.0	44.6	50.1	12 500*	53.7	51.3	15 800*													13.0
14.0	36.8	48.8	10 900*	47.3	50.4	13 300*													14.0
15.0	27.0	47.0	9 600*	40.0	49.2	11 500*													15.0
16.0				31.1	47.7	10 100*	47.7	50.2	13 700*										16.0
17.0							40.4	49.1	11 700*	54.4	50.8	16 300*b							17.0
18.0							31.7	47.5	10 200*	48.0	49.9	13 800*							18.0
19.0										40.8	48.8	11 800*							19.0
20.0													56.5	50.3	17 500*b				20.0
21.0													50.4	49.5	14 800*				21.0
22.0													43.5	48.4	12 600*				22.0
23.0													35.5	47.1	11 000*				23.0
24.0													25.2	45.1	9 600*				24.0
25.0																45.5	47.6	13 400*	25.0
26.0																37.9	46.4	11 500*	26.0
27.0																28.5	44.7	10 000*	27.0

### 39.6m (130 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	59.3	52.1	15 400*																10.7
11.0	57.4	51.9	14 600*																11.0
12.0	51.3	51.1	12 200*																12.0
13.0	44.6	50.1	10 400*	53.7	51.3	13 200*													13.0
14.0	36.8	48.8	9 000*	47.3	50.4	11 000*	59.9	51.9	16 100*b										14.0
15.0	27.0	47.0	7 900*	40.0	49.2	9 500*	54.1	51.1	13 400*										15.0
16.0				31.1	47.7	8 300*	47.7	50.2	11 200*	60.2	51.5	16 600*b							16.0
17.0							40.4	49.1	9 700*	54.4	50.8	13 400*							17.0
18.0							31.7	47.5	8 400*	48.0	49.9	11 300*							18.0
19.0										40.8	48.8	9 800*							19.0
20.0													56.5	50.3	14 600*				20.0
21.0													50.4	49.5	12 300*				21.0
22.0													43.5	48.4	10 400*				22.0
23.0													35.5	47.1	9 000*				23.0
24.0													25.2	45.1	7 900*				24.0
25.0																45.5	47.6	11 100*	25.0
26.0																37.9	46.4	9 400*	26.0
27.0																28.5	44.7	8 200*	27.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 39.6m (130 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	59.3	52.1	13 600*																10.7
11.0	57.4	51.9	12 900*																11.0
12.0	51.3	51.1	10 700*																12.0
13.0	44.6	50.1	9 000*	53.7	51.3	11 600*													13.0
14.0	36.8	48.8	7 800*	47.3	50.4	9 700*	59.9	51.9	14 300*										14.0
15.0	27.0	47.0	6 800*	40.0	49.2	8 300*	54.1	51.1	11 800*										15.0
16.0				31.1	47.7	7 200*	47.7	50.2	9 800*	60.2	51.5	14 600*							16.0
17.0							40.4	49.1	8 400*	54.4	50.8	11 800*							17.0
18.0							31.7	47.5	7 300*	48.0	49.9	9 900*							18.0
19.0										40.8	48.8	8 500*							19.0
20.0													56.5	50.3	12 900*				20.0
21.0													50.4	49.5	10 800*				21.0
22.0													43.5	48.4	9 100*				22.0
23.0													35.5	47.1	7 900*				23.0
24.0													25.2	45.1	6 800*				24.0
25.0																45.5	47.6	9 700*	25.0
26.0																37.9	46.4	8 200*	26.0
27.0																28.5	44.7	7 100*	27.0

## 39.6m (130 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

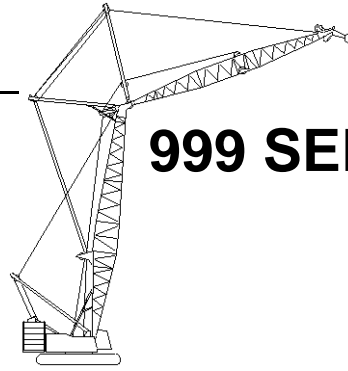
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	66.1	55.6	19 700*																10.7
11.0	64.7	55.5	18 700*																11.0
12.0	60.3	54.9	15 600*																12.0
13.0	55.7	54.2	13 200*	62.0	55.0	16 900*													13.0
14.0	50.8	53.4	11 400*	57.5	54.4	14 100*	66.6	55.3	20 700*										14.0
15.0	45.6	52.4	10 000*	52.7	53.6	12 100*	62.3	54.8	17 100*										15.0
16.0	39.7	51.2	8 800*	47.6	52.7	10 600*	57.8	54.2	14 300*										16.0
17.0	32.9	49.7	7 800*	42.0	51.6	9 300*	53.0	53.4	12 300*	62.5	54.5	17 300*							17.0
18.0	24.3	47.7	7 000*	35.6	50.2	8 200*	48.0	52.5	10 700*	58.0	53.9	14 700*							18.0
19.0				27.9	48.5	7 300*	42.4	51.4	9 400*	53.3	53.1	12 500*							19.0
20.0							36.0	50.1	8 300*	48.2	52.2	10 900*							20.0
21.0							28.4	48.4	7 400*	42.6	51.2	9 500*							21.0
22.0										36.4	49.8	8 400*	55.0	52.6	13 400*				22.0
23.0													50.1	51.8	11 500*				23.0
24.0													44.7	50.8	10 100*				24.0
25.0													38.7	49.5	8 900*				25.0
26.0													31.7	48.0	7 900*	51.5	50.9	12 100*	26.0
27.0													22.7	45.8	7 000*	46.3	50.0	10 600*	27.0
28.0																40.5	48.8	9 300*	28.0
29.0																33.8	47.4	8 200*	29.0
30.0																25.6	45.4	7 300*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5



## 999 SERIES 3

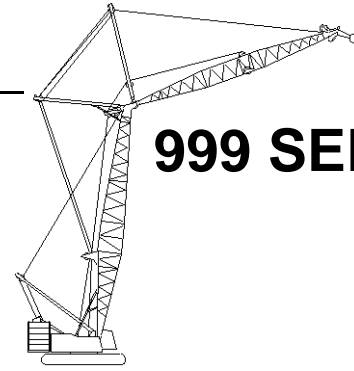
### 39.6m (130 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	67.6	53.0	17 800* <sup>b</sup>																9.1
10.0	63.0	52.5	14 900*																10.0
11.0	57.4	51.9	11 900*	65.1	52.6	16 200*													11.0
12.0	51.3	51.1	10 000*	59.6	52.0	13 000*													12.0
13.0	44.6	50.1	8 500*	53.7	51.3	10 600*	65.4	52.4	16 700*										13.0
14.0	36.8	48.8	7 400*	47.3	50.4	9 100*	59.9	51.9	13 000*										14.0
15.0	27.0	47.0	6 400*	40.0	49.2	7 800*	54.1	51.1	10 800*										15.0
16.0				31.1	47.7	6 800*	47.7	50.2	9 200*	60.2	51.5	13 600*							16.0
17.0							40.4	49.1	8 000*	54.4	50.8	11 000*							17.0
18.0							31.7	47.5	6 900*	48.0	49.9	9 300*							18.0
19.0										40.8	48.8	8 000*							19.0
20.0													56.5	50.3	11 900*				20.0
21.0													50.4	49.5	10 100*				21.0
22.0													43.5	48.4	8 500*				22.0
23.0													35.5	47.1	7 400*				23.0
24.0													25.2	45.1	6 500*				24.0
25.0																45.5	47.6	9 100*	25.0
26.0																37.9	46.4	7 700*	26.0
27.0																28.5	44.7	6 700*	27.0

REFLECT ONLY!



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

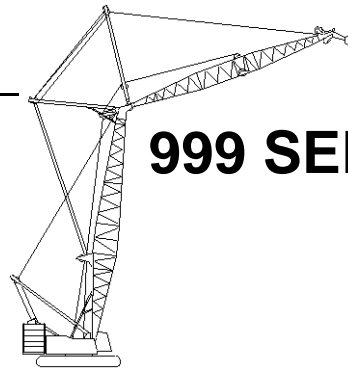
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 39.6m (130 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	72.4	56.3	24 800*b																9.1
10.0	68.9	55.9	20 800*																10.0
11.0	64.7	55.5	16 500*	70.5	56.0	22 600*													11.0
12.0	60.3	54.9	13 800*	66.3	55.6	18 100*													12.0
13.0	55.7	54.2	11 800*	62.0	55.0	14 800*													13.0
14.0	50.8	53.4	10 200*	57.5	54.4	12 600*	66.6	55.3	18 500*										14.0
15.0	45.6	52.4	9 000*	52.7	53.6	10 800*	62.3	54.8	15 300*										15.0
16.0	39.7	51.2	7 900*	47.6	52.7	9 500*	57.8	54.2	12 700*										16.0
17.0	32.9	49.7	7 000*	42.0	51.6	8 300*	53.0	53.4	11 000*	62.5	54.5	15 400*							17.0
18.0	24.3	47.7	6 200*	35.6	50.2	7 400*	48.0	52.5	9 500*	58.0	53.9	13 100*							18.0
19.0				27.9	48.5	6 500*	42.4	51.4	8 400*	53.3	53.1	11 100*							19.0
20.0							36.0	50.1	7 400*	48.2	52.2	9 700*							20.0
21.0							28.4	48.4	6 600*	42.6	51.2	8 500*							21.0
22.0										36.4	49.8	7 500*	55.0	52.6	12 000*				22.0
23.0													50.1	51.8	10 300*				23.0
24.0													44.7	50.8	9 000*				24.0
25.0													38.7	49.5	7 900*				25.0
26.0													31.7	48.0	7 000*	51.5	50.9	10 800*	26.0
27.0													22.7	45.8	6 200*	46.3	50.0	9 400*	27.0
28.0																40.5	48.8	8 200*	28.0
29.0																33.8	47.4	7 300*	29.0
30.0																25.6	45.4	6 500*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

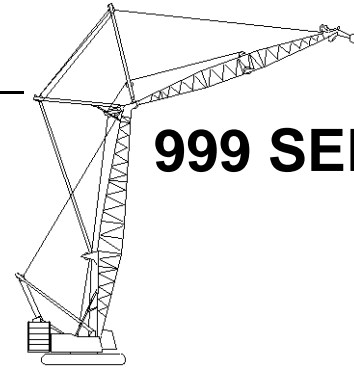
## 39.6m (130 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	75.4	59.5	26 700* <sup>b</sup>																9.1
10.0	72.6	59.2	24 300*																10.0
11.0	69.2	58.8	21 400*																11.0
12.0	65.8	58.4	17 800*																12.0
13.0	62.2	57.8	15 000*	67.1	58.4	19 200*													13.0
14.0	58.5	57.2	13 100*	63.6	57.9	16 000*													14.0
15.0	54.6	56.5	11 400*	59.9	57.4	13 800*													15.0
16.0	50.5	55.7	10 100*	56.1	56.7	12 100*	63.8	57.7	16 500*										16.0
17.0	46.2	54.7	9 000*	52.1	55.9	10 600*	60.1	57.2	14 000*										17.0
18.0	41.4	53.6	8 000*	47.9	55.0	9 400*	56.3	56.5	12 200*										18.0
19.0	36.2	52.3	7 200*	43.3	54.0	8 400*	52.4	55.7	10 800*	60.3	56.9	14 300*							19.0
20.0	30.1	50.6	6 500*	38.2	52.7	7 600*	48.1	54.8	9 600*	56.5	56.2	12 400*							20.0
21.0	22.4	48.4	5 900*	32.5	51.2	6 800*	43.6	53.8	8 500*	52.6	55.4	10 900*							21.0
22.0				25.6	49.2	6 100*	38.6	52.6	7 600*	48.3	54.5	9 700*							22.0
23.0							32.9	51.1	6 900*	43.8	53.5	8 600*	57.9	55.6	13 100*				23.0
24.0							26.0	49.1	6 200*	38.8	52.3	7 700*	54.0	54.9	11 500*				24.0
25.0										33.2	50.8	7 000*	49.9	54.1	10 100*				25.0
26.0													45.5	53.1	9 100*				26.0
27.0													40.7	51.9	8 100*				27.0
28.0													35.3	50.6	7 300*	51.1	53.2	10 600*	28.0
29.0													29.0	48.8	6 600*	46.7	52.3	9 400*	29.0
30.0													20.9	46.5	5 900*	42.1	51.2	8 400*	30.0
31.0																36.9	49.9	7 500*	31.0
32.0																30.9	48.3	6 800*	32.0
33.0																23.5	46.1	6 200*	33.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

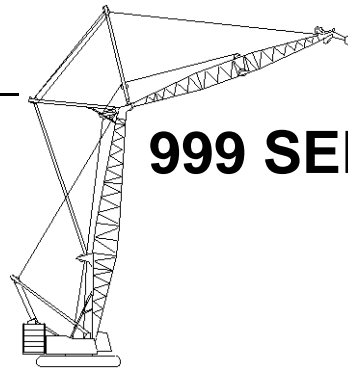
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 39.6m (130 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	73.3	62.2	26 700*																10.7
11.0	72.4	62.1	25 800*																11.0
12.0	69.5	61.7	22 900*																12.0
13.0	66.5	61.3	20 000*	70.6	61.8	24 200*													13.0
14.0	63.5	60.8	17 100*	67.6	61.3	21 100*													14.0
15.0	60.4	60.2	15 000*	64.6	60.9	18 200*													15.0
16.0	57.2	59.5	13 300*	61.6	60.3	15 800*	67.8	61.1	21 500*										16.0
17.0	53.8	58.8	11 900*	58.4	59.7	14 000*	64.8	60.7	18 400*										17.0
18.0	50.3	58.0	10 600*	55.1	59.0	12 400*	61.8	60.1	16 000*										18.0
19.0	46.6	57.0	9 600*	51.7	58.2	11 100*	58.6	59.5	14 100*	65.0	60.3	18 700*							19.0
20.0	42.6	56.0	8 700*	48.0	57.3	10 000*	55.3	58.8	12 600*	61.9	59.8	16 200*							20.0
21.0	38.3	54.7	7 900*	44.2	56.3	9 000*	51.9	58.0	11 300*	58.7	59.2	14 300*							21.0
22.0	33.5	53.2	7 200*	40.0	55.1	8 200*	48.3	57.1	10 100*	55.5	58.5	12 700*							22.0
23.0	27.9	51.4	6 500*	35.4	53.7	7 500*	44.4	56.1	9 200*	52.0	57.7	11 400*							23.0
24.0	20.9	49.0	6 000*	30.2	52.1	6 800*	40.3	54.9	8 300*	48.4	56.8	10 300*							24.0
25.0				23.8	49.9	6 200*	35.7	53.6	7 600*	44.6	55.8	9 300*	56.7	58.0	13 400*				25.0
26.0							30.5	51.9	6 900*	40.5	54.7	8 400*	53.3	57.2	11 900*				26.0
27.0							24.3	49.9	6 300*	35.9	53.3	7 600*	49.8	56.4	10 700*				27.0
28.0										30.8	51.7	7 000*	46.0	55.4	9 700*				28.0
29.0													42.0	54.3	8 800*	54.3	56.3	12 400*	29.0
30.0													37.6	53.0	8 000*	50.8	55.5	11 200*	30.0
31.0													32.7	51.5	7 200*	47.1	54.6	10 100*	31.0
32.0													27.0	49.6	6 600*	43.2	53.5	9 100*	32.0
33.0													19.6	47.1	6 100*	38.9	52.3	8 300*	33.0
34.0																34.2	50.9	7 500*	34.0
35.0																28.7	49.1	6 900*	35.0
36.0																21.9	46.8	6 300*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

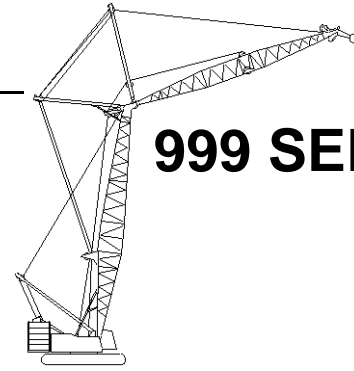
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 39.6m (130 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.5	65.4	26 700*																10.7
11.0	74.6	65.3	26 700*																11.0
12.0	72.2	65.0	26 700*																12.0
13.0	69.6	64.6	24 000*																13.0
14.0	67.1	64.2	20 800*	70.6	64.6	25 500*													14.0
15.0	64.5	63.7	18 300*	68.1	64.2	22 100*													15.0
16.0	61.8	63.1	16 200*	65.5	63.8	19 200*													16.0
17.0	59.0	62.5	14 500*	62.8	63.2	17 100*	68.2	64.0	22 300*										17.0
18.0	56.2	61.9	13 100*	60.1	62.7	15 200*	65.6	63.6	19 600*										18.0
19.0	53.2	61.1	11 900*	57.3	62.0	13 700*	63.0	63.0	17 300*										19.0
20.0	50.1	60.3	10 800*	54.3	61.3	12 400*	60.2	62.5	15 500*	65.7	63.2	19 800*							20.0
21.0	46.9	59.3	9 800*	51.3	60.5	11 200*	57.4	61.8	13 900*	63.1	62.7	17 500*							21.0
22.0	43.5	58.3	9 000*	48.2	59.6	10 200*	54.5	61.1	12 600*	60.4	62.2	15 600*							22.0
23.0	39.8	57.1	8 200*	44.8	58.6	9 400*	51.5	60.3	11 400*	57.6	61.5	14 000*							23.0
24.0	35.8	55.7	7 600*	41.3	57.5	8 600*	48.4	59.4	10 400*	54.7	60.8	12 700*							24.0
25.0	31.4	54.1	7 000*	37.4	56.2	7 900*	45.0	58.4	9 500*	51.7	60.0	11 500*	61.4	61.6	16 400*				25.0
26.0	26.2	52.2	6 500*	33.2	54.7	7 200*	41.5	57.3	8 700*	48.5	59.1	10 500*	58.6	61.0	14 700*				26.0
27.0	19.8	49.7	6 000*	28.3	52.9	6 700*	37.6	56.0	8 000*	45.2	58.1	9 600*	55.7	60.3	13 200*				27.0
28.0				22.5	50.6	6 200*	33.4	54.6	7 400*	41.6	57.0	8 800*	52.8	59.5	12 000*				28.0
29.0							28.6	52.8	6 800*	37.8	55.8	8 100*	49.7	58.7	10 900*				29.0
30.0							22.9	50.6	6 300*	33.6	54.3	7 400*	46.4	57.7	10 000*				30.0
31.0										28.9	52.5	6 900*	43.0	56.6	9 200*	53.6	58.6	12 500*	31.0
32.0										23.2	50.3	6 300*	39.3	55.4	8 400*	50.5	57.8	11 300*	32.0
33.0													35.2	54.0	7 800*	47.3	56.9	10 300*	33.0
34.0													30.7	52.4	7 200*	43.9	55.9	9 500*	34.0
35.0													25.4	50.4	6 600*	40.3	54.7	8 700*	35.0
36.0													18.6	47.7	6 100*	36.4	53.4	8 000*	36.0
37.0																32.0	51.8	7 400*	37.0
38.0																27.0	49.9	6 800*	38.0
39.0																20.7	47.5	6 300*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

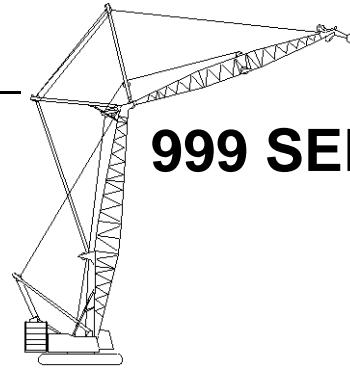
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 39.6m (130 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.8	68.1	26 700*																12.2
13.0	72.0	67.8	26 700*																13.0
14.0	69.8	67.5	25 900*	72.9	67.9	26 700*													14.0
15.0	67.5	67.0	23 200*	70.6	67.5	26 600*													15.0
16.0	65.2	66.6	20 700*	68.4	67.1	25 000*													16.0
17.0	62.8	66.1	18 800*	66.1	66.7	21 800*													17.0
18.0	60.4	65.5	17 000*	63.7	66.2	19 600*													18.0
19.0	57.9	64.9	15 400*	61.3	65.6	17 800*	66.2	66.5	22 200*										19.0
20.0	55.4	64.2	14 000*	58.9	65.0	16 100*	63.9	66.0	19 900*										20.0
21.0	52.7	63.4	12 800*	56.4	64.3	14 600*	61.5	65.4	18 000*										21.0
22.0	50.0	62.6	11 800*	53.8	63.6	13 400*	59.0	64.8	16 300*	64.0	65.7	20 200*							22.0
23.0	47.2	61.6	10 800*	51.1	62.8	12 200*	56.5	64.2	14 800*	61.6	65.1	18 200*							23.0
24.0	44.1	60.6	10 000*	48.3	61.9	11 300*	53.9	63.4	13 500*	59.2	64.5	16 500*							24.0
25.0	41.0	59.5	9 200*	45.3	60.9	10 400*	51.2	62.6	12 400*	56.6	63.8	15 000*							25.0
26.0	37.5	58.2	8 600*	42.2	59.8	9 600*	48.4	61.7	11 400*	54.0	63.1	13 700*	62.5	64.5	18 900*				26.0
27.0	33.8	56.7	7 900*	38.9	58.6	8 900*	45.5	60.8	10 500*	51.4	62.3	12 600*	60.0	63.9	17 200*				27.0
28.0	29.7	55.0	7 400*	35.3	57.2	8 200*	42.4	59.7	9 700*	48.6	61.4	11 500*	57.6	63.3	15 600*				28.0
29.0	24.9	53.0	6 900*	31.3	55.6	7 600*	39.1	58.4	9 000*	45.6	60.5	10 700*	55.0	62.6	14 300*				29.0
30.0	18.9	50.3	6 400*	26.8	53.7	7 100*	35.5	57.1	8 300*	42.5	59.4	9 800*	52.3	61.8	13 100*				30.0
31.0				21.4	51.3	6 600*	31.6	55.5	7 800*	39.2	58.2	9 100*	49.6	61.0	12 000*				31.0
32.0				13.9	47.9	6 200*	27.1	53.6	7 200*	35.7	56.8	8 500*	46.7	60.0	11 100*	55.7	61.7	14 700*	32.0
33.0							21.8	51.2	6 700*	31.8	55.2	7 900*	43.7	59.0	10 300*	53.1	60.9	13 500*	33.0
34.0										27.3	53.4	7 300*	40.5	57.8	9 500*	50.4	60.1	12 400*	34.0
35.0										22.0	51.0	6 800*	37.0	56.5	8 800*	47.5	59.2	11 400*	35.0
36.0													33.2	55.0	8 200*	44.5	58.2	10 600*	36.0
37.0													29.0	53.3	7 600*	41.4	57.1	9 800*	37.0
38.0													24.1	51.1	7 100*	38.0	55.8	9 100*	38.0
39.0													17.8	48.3	6 600*	34.3	54.4	8 400*	39.0
40.0																30.2	52.7	7 800*	40.0
42.0																19.8	48.1	6 800*	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

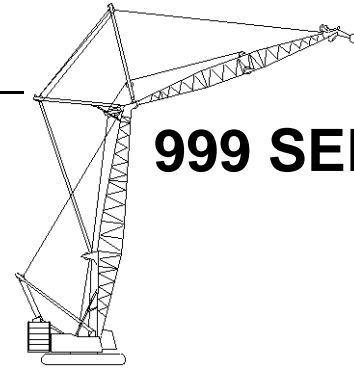
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 39.6m (130 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.5	65.4	26 700*																10.7
11.0	74.6	65.3	26 300*																11.0
12.0	72.2	65.0	25 100*																12.0
13.0	69.6	64.6	22 700*																13.0
14.0	67.1	64.2	19 200*	70.6	64.6	23 500*													14.0
15.0	64.5	63.7	16 900*	68.1	64.2	20 400*													15.0
16.0	61.8	63.1	15 000*	65.5	63.8	17 800*													16.0
17.0	59.0	62.5	13 400*	62.8	63.2	15 700*	68.2	64.0	20 600*										17.0
18.0	56.2	61.9	12 100*	60.1	62.7	14 100*	65.6	63.6	18 100*										18.0
19.0	53.2	61.1	10 900*	57.3	62.0	12 600*	63.0	63.0	15 900*										19.0
20.0	50.1	60.3	9 900*	54.3	61.3	11 400*	60.2	62.5	14 300*	65.7	63.2	18 300*							20.0
21.0	46.9	59.3	9 100*	51.3	60.5	10 300*	57.4	61.8	12 800*	63.1	62.7	16 200*							21.0
22.0	43.5	58.3	8 300*	48.2	59.6	9 400*	54.5	61.1	11 600*	60.4	62.2	14 400*							22.0
23.0	39.8	57.1	7 600*	44.8	58.6	8 600*	51.5	60.3	10 500*	57.6	61.5	13 000*							23.0
24.0	35.8	55.7	7 000*	41.3	57.5	7 900*	48.4	59.4	9 600*	54.7	60.8	11 700*							24.0
25.0	31.4	54.1	6 400*	37.4	56.2	7 300*	45.0	58.4	8 700*	51.7	60.0	10 600*	61.4	61.6	15 200*				25.0
26.0	26.2	52.2	5 900*	33.2	54.7	6 700*	41.5	57.3	8 000*	48.5	59.1	9 700*	58.6	61.0	13 600*				26.0
27.0	19.8	49.7	5 500*	28.3	52.9	6 100*	37.6	56.0	7 400*	45.2	58.1	8 800*	55.7	60.3	12 200*				27.0
28.0				22.5	50.6	5 700*	33.4	54.6	6 800*	41.6	57.0	8 100*	52.8	59.5	11 100*				28.0
29.0							28.6	52.8	6 200*	37.8	55.8	7 500*	49.7	58.7	10 100*				29.0
30.0							22.9	50.6	5 700*	33.6	54.3	6 800*	46.4	57.7	9 200*				30.0
31.0										28.9	52.5	6 300*	43.0	56.6	8 400*	53.6	58.6	11 500*	31.0
32.0										23.2	50.3	5 800*	39.3	55.4	7 800*	50.5	57.8	10 400*	32.0
33.0													35.2	54.0	7 100*	47.3	56.9	9 500*	33.0
34.0													30.7	52.4	6 600*	43.9	55.9	8 700*	34.0
35.0													25.4	50.4	6 100*	40.3	54.7	8 000*	35.0
36.0													18.6	47.7	5 600*	36.4	53.4	7 400*	36.0
37.0																32.0	51.8	6 800*	37.0
38.0																27.0	49.9	6 300*	38.0
39.0																20.7	47.5	5 800*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

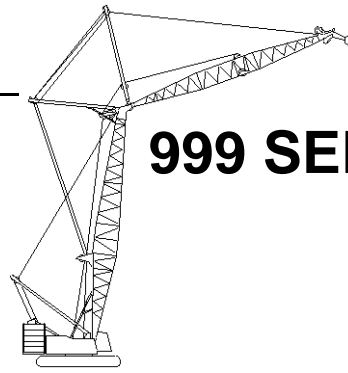
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 39.6m (130 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.8	68.1	26 700*																12.2
13.0	72.0	67.8	26 000*																13.0
14.0	69.8	67.5	24 800*	72.9	67.9	26 400*													14.0
15.0	67.5	67.0	21 800*	70.6	67.5	25 200*													15.0
16.0	65.2	66.6	19 200*	68.4	67.1	23 100*													16.0
17.0	62.8	66.1	17 200*	66.1	66.7	20 100*													17.0
18.0	60.4	65.5	15 500*	63.7	66.2	18 000*													18.0
19.0	57.9	64.9	14 100*	61.3	65.6	16 200*	66.2	66.5	20 500*										19.0
20.0	55.4	64.2	12 800*	58.9	65.0	14 700*	63.9	66.0	18 200*										20.0
21.0	52.7	63.4	11 700*	56.4	64.3	13 400*	61.5	65.4	16 400*										21.0
22.0	50.0	62.6	10 700*	53.8	63.6	12 200*	59.0	64.8	14 900*	64.0	65.7	18 500*							22.0
23.0	47.2	61.6	9 900*	51.1	62.8	11 200*	56.5	64.2	13 600*	61.6	65.1	16 600*							23.0
24.0	44.1	60.6	9 100*	48.3	61.9	10 200*	53.9	63.4	12 400*	59.2	64.5	15 000*							24.0
25.0	41.0	59.5	8 400*	45.3	60.9	9 400*	51.2	62.6	11 300*	56.6	63.8	13 700*							25.0
26.0	37.5	58.2	7 700*	42.2	59.8	8 700*	48.4	61.7	10 400*	54.0	63.1	12 500*	62.5	64.5	17 300*				26.0
27.0	33.8	56.7	7 200*	38.9	58.6	8 100*	45.5	60.8	9 600*	51.4	62.3	11 500*	60.0	63.9	15 700*				27.0
28.0	29.7	55.0	6 700*	35.3	57.2	7 500*	42.4	59.7	8 900*	48.6	61.4	10 500*	57.6	63.3	14 300*				28.0
29.0	24.9	53.0	6 200*	31.3	55.6	6 900*	39.1	58.4	8 200*	45.6	60.5	9 700*	55.0	62.6	13 100*				29.0
30.0	18.9	50.3	5 800*	26.8	53.7	6 400*	35.5	57.1	7 600*	42.5	59.4	9 000*	52.3	61.8	12 000*				30.0
31.0				21.4	51.3	6 000*	31.6	55.5	7 100*	39.2	58.2	8 300*	49.6	61.0	11 000*				31.0
32.0				13.9	47.9	5 600*	27.1	53.6	6 500*	35.7	56.8	7 700*	46.7	60.0	10 200*	55.7	61.7	13 500*	32.0
33.0							21.8	51.2	6 100*	31.8	55.2	7 100*	43.7	59.0	9 400*	53.1	60.9	12 400*	33.0
34.0										27.3	53.4	6 600*	40.5	57.8	8 600*	50.4	60.1	11 300*	34.0
35.0										22.0	51.0	6 200*	37.0	56.5	8 000*	47.5	59.2	10 500*	35.0
36.0													33.2	55.0	7 400*	44.5	58.2	9 700*	36.0
37.0													29.0	53.3	6 900*	41.4	57.1	9 000*	37.0
38.0													24.1	51.1	6 400*	38.0	55.8	8 300*	38.0
39.0													17.8	48.3	6 000*	34.3	54.4	7 700*	39.0
40.0																30.2	52.7	7 100*	40.0
42.0																19.8	48.1	6 200*	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

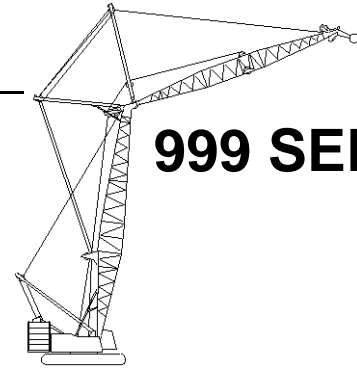
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 39.6m (130 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.5	65.4	26 700*																10.7
11.0	74.6	65.3	25 900*																11.0
12.0	72.2	65.0	23 500*																12.0
13.0	69.6	64.6	20 700*																13.0
14.0	67.1	64.2	17 700*	70.6	64.6	21 800*													14.0
15.0	64.5	63.7	15 600*	68.1	64.2	18 900*													15.0
16.0	61.8	63.1	13 900*	65.5	63.8	16 400*													16.0
17.0	59.0	62.5	12 400*	62.8	63.2	14 600*	68.2	64.0	19 100*										17.0
18.0	56.2	61.9	11 200*	60.1	62.7	13 000*	65.6	63.6	16 800*										18.0
19.0	53.2	61.1	10 100*	57.3	62.0	11 700*	63.0	63.0	14 800*										19.0
20.0	50.1	60.3	9 200*	54.3	61.3	10 500*	60.2	62.5	13 200*	65.7	63.2	16 900*							20.0
21.0	46.9	59.3	8 300*	51.3	60.5	9 500*	57.4	61.8	11 800*	63.1	62.7	15 000*							21.0
22.0	43.5	58.3	7 600*	48.2	59.6	8 700*	54.5	61.1	10 700*	60.4	62.2	13 300*							22.0
23.0	39.8	57.1	7 000*	44.8	58.6	7 900*	51.5	60.3	9 700*	57.6	61.5	12 000*							23.0
24.0	35.8	55.7	6 400*	41.3	57.5	7 300*	48.4	59.4	8 800*	54.7	60.8	10 800*							24.0
25.0	31.4	54.1	5 900*	37.4	56.2	6 700*	45.0	58.4	8 100*	51.7	60.0	9 800*	61.4	61.6	14 100*				25.0
26.0	26.2	52.2	5 400*	33.2	54.7	6 100*	41.5	57.3	7 400*	48.5	59.1	8 900*	58.6	61.0	12 500*				26.0
27.0	19.8	49.7	5 000*	28.3	52.9	5 600*	37.6	56.0	6 800*	45.2	58.1	8 200*	55.7	60.3	11 300*				27.0
28.0				22.5	50.6	5 200*	33.4	54.6	6 200*	41.6	57.0	7 500*	52.8	59.5	10 300*				28.0
29.0							28.6	52.8	5 700*	37.8	55.8	6 900*	49.7	58.7	9 300*				29.0
30.0							22.9	50.6	5 300*	33.6	54.3	6 300*	46.4	57.7	8 500*				30.0
31.0										28.9	52.5	5 800*	43.0	56.6	7 800*	53.6	58.6	10 600*	31.0
32.0										23.2	50.3	5 300*	39.3	55.4	7 200*	50.5	57.8	9 700*	32.0
33.0													35.2	54.0	6 600*	47.3	56.9	8 800*	33.0
34.0													30.7	52.4	6 100*	43.9	55.9	8 100*	34.0
35.0													25.4	50.4	5 600*	40.3	54.7	7 400*	35.0
36.0													18.6	47.7	5 200*	36.4	53.4	6 800*	36.0
37.0																32.0	51.8	6 300*	37.0
38.0																27.0	49.9	5 800*	38.0
39.0																20.7	47.5	5 300*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

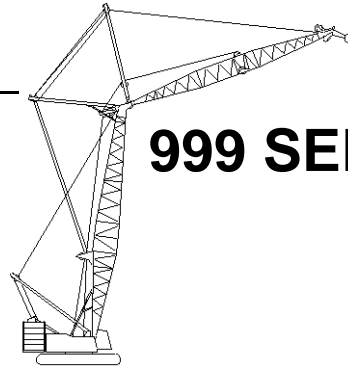
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 39.6m (130 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.8	68.1	26 700*																12.2
13.0	72.0	67.8	24 900*																13.0
14.0	69.8	67.5	22 600*	72.9	67.9	26 000*													14.0
15.0	67.5	67.0	20 000*	70.6	67.5	23 500*													15.0
16.0	65.2	66.6	17 600*	68.4	67.1	21 000*													16.0
17.0	62.8	66.1	15 800*	66.1	66.7	18 500*													17.0
18.0	60.4	65.5	14 300*	63.7	66.2	16 500*													18.0
19.0	57.9	64.9	12 900*	61.3	65.6	14 900*	66.2	66.5	18 900*										19.0
20.0	55.4	64.2	11 800*	58.9	65.0	13 500*	63.9	66.0	16 800*										20.0
21.0	52.7	63.4	10 700*	56.4	64.3	12 300*	61.5	65.4	15 100*										21.0
22.0	50.0	62.6	9 800*	53.8	63.6	11 200*	59.0	64.8	13 700*	64.0	65.7	17 000*							22.0
23.0	47.2	61.6	9 100*	51.1	62.8	10 300*	56.5	64.2	12 400*	61.6	65.1	15 300*							23.0
24.0	44.1	60.6	8 300*	48.3	61.9	9 400*	53.9	63.4	11 300*	59.2	64.5	13 800*							24.0
25.0	41.0	59.5	7 700*	45.3	60.9	8 700*	51.2	62.6	10 400*	56.6	63.8	12 600*							25.0
26.0	37.5	58.2	7 100*	42.2	59.8	8 000*	48.4	61.7	9 600*	54.0	63.1	11 500*	62.5	64.5	16 000*				26.0
27.0	33.8	56.7	6 500*	38.9	58.6	7 400*	45.5	60.8	8 800*	51.4	62.3	10 500*	60.0	63.9	14 500*				27.0
28.0	29.7	55.0	6 100*	35.3	57.2	6 800*	42.4	59.7	8 100*	48.6	61.4	9 700*	57.6	63.3	13 200*				28.0
29.0	24.9	53.0	5 600*	31.3	55.6	6 300*	39.1	58.4	7 500*	45.6	60.5	8 900*	55.0	62.6	12 000*				29.0
30.0	18.9	50.3	5 300*	26.8	53.7	5 900*	35.5	57.1	7 000*	42.5	59.4	8 200*	52.3	61.8	11 000*				30.0
31.0				21.4	51.3	5 500*	31.6	55.5	6 500*	39.2	58.2	7 600*	49.6	61.0	10 100*				31.0
32.0				13.9	47.9	5 100*	27.1	53.6	6 000*	35.7	56.8	7 000*	46.7	60.0	9 300*	55.7	61.7	12 400*	32.0
33.0							21.8	51.2	5 600*	31.8	55.2	6 500*	43.7	59.0	8 600*	53.1	60.9	11 400*	33.0
34.0										27.3	53.4	6 100*	40.5	57.8	8 000*	50.4	60.1	10 500*	34.0
35.0										22.0	51.0	5 600*	37.0	56.5	7 400*	47.5	59.2	9 600*	35.0
36.0													33.2	55.0	6 800*	44.5	58.2	8 900*	36.0
37.0													29.0	53.3	6 300*	41.4	57.1	8 200*	37.0
38.0													24.1	51.1	5 900*	38.0	55.8	7 600*	38.0
39.0													17.8	48.3	5 500*	34.3	54.4	7 100	39.0
40.0																30.2	52.7	6 500	40.0
42.0																19.8	48.1	5 200	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

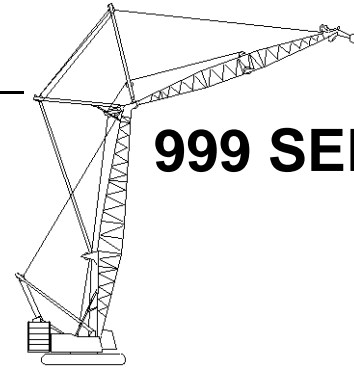
## 39.6m (130 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.5	71.3	26 700*																12.2
13.0	73.9	71.1	26 300*																13.0
14.0	71.9	70.7	25 400*																14.0
15.0	69.9	70.3	23 000*																15.0
16.0	67.8	69.9	20 600*	70.7	70.4	23 700*													16.0
17.0	65.8	69.5	18 500*	68.6	70.0	21 400*													17.0
18.0	63.7	69.0	16 800*	66.6	69.6	19 400*													18.0
19.0	61.5	68.4	15 200*	64.5	69.1	17 500*	68.7	69.8	21 700*										19.0
20.0	59.3	67.8	13 900*	62.3	68.6	15 900*	66.7	69.4	19 600*										20.0
21.0	57.1	67.2	12 700*	60.2	68.0	14 500*	64.6	68.9	17 700*										21.0
22.0	54.8	66.5	11 700*	57.9	67.3	13 200*	62.5	68.4	16 100*										22.0
23.0	52.4	65.7	10 800*	55.6	66.7	12 100*	60.3	67.8	14 700*	64.7	68.6	17 900*							23.0
24.0	49.9	64.9	9 900*	53.3	65.9	11 200*	58.1	67.2	13 400*	62.6	68.0	16 300*							24.0
25.0	47.3	63.9	9 200*	50.9	65.1	10 300*	55.8	66.5	12 400*	60.4	67.5	14 800*							25.0
26.0	44.7	62.9	8 500*	48.3	64.2	9 500*	53.4	65.7	11 400*	58.2	66.8	13 600*							26.0
27.0	41.8	61.8	7 900*	45.7	63.2	8 800*	51.0	64.9	10 500*	55.9	66.2	12 500*							27.0
28.0	38.9	60.6	7 300*	42.9	62.2	8 200*	48.5	64.0	9 700*	53.5	65.4	11 500*	61.2	66.9	15 500*				28.0
29.0	35.6	59.2	6 800*	40.0	61.0	7 600*	45.9	63.1	9 000*	51.1	64.6	10 700*	59.0	66.3	14 100*				29.0
30.0	32.2	57.7	6 300*	36.9	59.7	7 100*	43.1	62.0	8 300*	48.6	63.7	9 900*	56.7	65.6	13 000*				30.0
31.0	28.3	55.9	5 900*	33.5	58.2	6 600*	40.2	60.8	7 800*	46.0	62.8	9 100*	54.4	64.9	12 000*				31.0
32.0	23.8	53.7	5 500*	29.8	56.5	6 200*	37.1	59.5	7 200*	43.2	61.7	8 500*	52.0	64.1	11 100*				32.0
33.0	18.2	50.9	5 200*	25.6	54.5	5 700*	33.7	58.1	6 700*	40.3	60.5	7 900*	49.5	63.3	10 300*				33.0
34.0				20.5	52.0	5 400*	30.0	56.4	6 300*	37.2	59.2	7 400*	46.9	62.3	9 500*	55.1	64.0	11 100	34.0
35.0				13.5	48.4	5 000*	25.8	54.4	5 900*	33.9	57.8	6 800*	44.2	61.3	8 900*	52.7	63.2	10 200	35.0
36.0							20.8	51.9	5 500*	30.2	56.1	6 400*	41.4	60.2	8 200*	50.2	62.4	9 500	36.0
37.0										26.0	54.1	5 900*	38.4	58.9	7 700*	47.7	61.5	8 800	37.0
38.0										21.1	51.7	5 600*	35.1	57.5	7 200*	45.0	60.5	8 000	38.0
39.0													31.6	55.9	6 700*	42.2	59.4	7 400	39.0
40.0													27.6	54.1	6 200*	39.2	58.2	6 700	40.0
42.0													17.2	48.9	5 400*	32.6	55.3	5 600	42.0
44.0																24.4	51.4	4 500	44.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

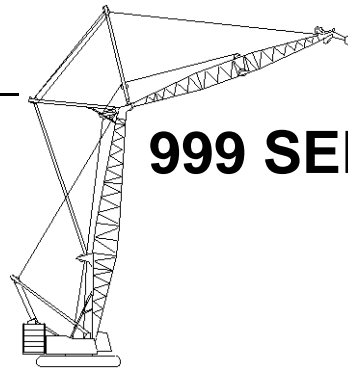
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 39.6m (130 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	74.1	74.0	25 200*																13.7
14.0	73.6	73.9	24 500*																14.0
15.0	71.8	73.6	22 100*																15.0
16.0	70.0	73.2	20 000*	72.5	73.6	23 000*													16.0
17.0	68.1	72.8	18 200*	70.7	73.3	20 700*													17.0
18.0	66.2	72.4	16 600*	68.8	72.9	18 900*													18.0
19.0	64.3	71.9	15 300*	67.0	72.5	17 200*													19.0
20.0	62.4	71.4	14 100*	65.1	72.0	15 800*	68.9	72.7	19 000*										20.0
21.0	60.4	70.8	13 000*	63.1	71.5	14 500*	67.1	72.2	17 400*										21.0
22.0	58.4	70.2	12 000*	61.2	70.9	13 400*	65.2	71.8	15 900*										22.0
23.0	56.4	69.5	11 100*	59.2	70.3	12 400*	63.3	71.3	14 700*	67.2	71.9	17 400*							23.0
24.0	54.2	68.8	10 200*	57.1	69.7	11 500*	61.3	70.7	13 500*	65.3	71.5	16 000*							24.0
25.0	52.1	68.0	9 300*	55.0	69.0	10 600*	59.3	70.1	12 500*	63.4	71.0	14 700*							25.0
26.0	49.8	67.2	8 600*	52.9	68.2	9 800*	57.3	69.5	11 600*	61.4	70.4	13 600*							26.0
27.0	47.5	66.3	7 900*	50.7	67.4	9 000*	55.2	68.8	10 800*	59.4	69.8	12 600*							27.0
28.0	45.1	65.3	7 300*	48.4	66.5	8 300*	53.0	68.0	10 000*	57.4	69.2	11 600*							28.0
29.0	42.6	64.2	6 700*	46.0	65.6	7 600*	50.8	67.2	9 100*	55.3	68.5	10 800*	62.1	69.8	14 000*				29.0
30.0	39.9	63.0	6 200*	43.5	64.5	7 100*	48.5	66.3	8 400*	53.1	67.7	10 100*	60.1	69.2	13 000*				30.0
31.0	37.1	61.7	5 700*	40.9	63.4	6 500*	46.2	65.4	7 800*	50.9	66.9	9 300*	58.1	68.6	12 000*				31.0
32.0	34.0	60.2	5 300*	38.2	62.1	6 000*	43.7	64.3	7 200*	48.6	66.0	8 600*	56.0	67.9	11 200*				32.0
33.0	30.7	58.6	4 900*	35.2	60.7	5 600*	41.1	63.2	6 700*	46.3	65.1	7 900*	53.9	67.2	10 400*				33.0
34.0	27.0	56.7	4 500*	32.0	59.1	5 200*	38.3	61.9	6 200*	43.8	64.0	7 300*	51.7	66.4	9 600*				34.0
35.0	22.8	54.4	4 200*	28.5	57.3	4 800*	35.4	60.6	5 700*	41.2	62.9	6 800*	49.5	65.6	9 000*				35.0
36.0	17.5	51.5	3 900*	24.5	55.2	4 400*	32.2	59.0	5 300*	38.5	61.7	6 300*	47.1	64.6	8 300*	54.5	66.3	9 500	36.0
37.0				19.7	52.6	4 100*	28.7	57.2	4 900*	35.5	60.3	5 800*	44.7	63.6	7 700*	52.3	65.5	8 800	37.0
38.0				13.2	49.0	3 800*	24.8	55.1	4 500*	32.4	58.7	5 400*	42.2	62.5	7 100*	50.1	64.7	8 100	38.0
39.0							20.0	52.6	4 200*	28.9	57.0	5 000*	39.5	61.3	6 600*	47.8	63.8	7 400	39.0
40.0										25.0	54.9	4 600*	36.6	60.0	6 100*	45.4	62.8	6 900	40.0
42.0													30.2	56.8	5 200*	40.2	60.6	5 700	42.0
44.0													22.1	52.5	4 500*	34.4	57.8	4 700	44.0
46.0																27.5	54.4	3 700	46.0
48.0																18.3	49.4	2 800	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

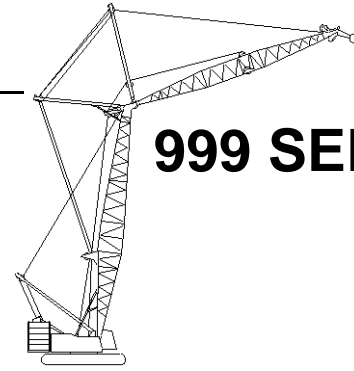
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 39.6m (130 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	75.5	77.2	26 700*																13.7
14.0	75.0	77.1	26 100*																14.0
15.0	73.4	76.8	23 900*																15.0
16.0	71.7	76.5	21 900*																16.0
17.0	70.0	76.1	20 000*	72.4	76.5	22 700*													17.0
18.0	68.4	75.7	18 400*	70.7	76.2	20 700*													18.0
19.0	66.6	75.3	17 000*	69.0	75.8	19 000*													19.0
20.0	64.9	74.8	15 700*	67.3	75.3	17 500*													20.0
21.0	63.1	74.3	14 600*	65.6	74.9	16 200*													21.0
22.0	61.3	73.7	13 600*	63.8	74.4	15 000*	67.4	75.1	17 700*										22.0
23.0	59.5	73.2	12 700*	62.0	73.9	14 000*	65.7	74.7	16 300*										23.0
24.0	57.7	72.5	11 800*	60.2	73.3	13 000*	63.9	74.2	15 100*										24.0
25.0	55.8	71.8	11 000*	58.4	72.7	12 100*	62.1	73.7	14 000*	65.8	74.4	16 400*							25.0
26.0	53.8	71.1	10 300*	56.5	72.0	11 400*	60.3	73.1	13 100*	64.0	73.9	15 200*							26.0
27.0	51.8	70.3	9 500*	54.6	71.3	10 600*	58.5	72.5	12 200*	62.2	73.3	14 100*							27.0
28.0	49.8	69.5	8 800*	52.6	70.5	9 900*	56.6	71.8	11 400*	60.4	72.8	13 100*							28.0
29.0	47.6	68.6	8 200*	50.5	69.7	9 200*	54.7	71.1	10 700*	58.6	72.2	12 300*							29.0
30.0	45.4	67.6	7 600*	48.4	68.8	8 600*	52.7	70.3	10 000*	56.7	71.5	11 500*							30.0
31.0	43.1	66.5	7 100*	46.3	67.9	7 900*	50.7	69.5	9 400*	54.8	70.8	10 700*	61.1	72.2	13 500*				31.0
32.0	40.7	65.4	6 600*	44.0	66.8	7 400*	48.6	68.6	8 700*	52.8	70.0	10 100*	59.2	71.6	12 600*				32.0
33.0	38.2	64.1	6 100*	41.7	65.7	6 900*	46.4	67.7	8 100*	50.8	69.2	9 500*	57.4	70.9	11 700*				33.0
34.0	35.5	62.7	5 700*	39.2	64.5	6 400*	44.2	66.7	7 500*	48.7	68.3	8 900*	55.5	70.2	11 000*				34.0
35.0	32.6	61.2	5 300*	36.6	63.2	6 000*	41.8	65.5	7 000*	46.5	67.4	8 200*	53.5	69.5	10 300*				35.0
36.0	29.5	59.4	4 900*	33.8	61.7	5 500*	39.3	64.3	6 500*	44.3	66.4	7 700*	51.5	68.7	9 700*				36.0
37.0	26.0	57.5	4 600*	30.7	60.0	5 100*	36.7	63.0	6 100*	41.9	65.3	7 200*	49.4	67.9	9 100*	56.0	69.3	9 000	37.0
38.0	22.0	55.1	4 300*	27.4	58.2	4 800*	33.9	61.5	5 700*	39.5	64.1	6 700*	47.3	66.9	8 600*	54.1	68.6	8 300	38.0
39.0	17.0	52.1	3 500*	23.6	56.0	4 500*	30.9	59.9	5 300*	36.8	62.7	6 200*	45.1	65.9	8 000*	52.1	67.8	7 700	39.0
40.0				19.1	53.3	4 000*	27.6	58.0	4 900*	34.1	61.3	5 800*	42.8	64.9	7 500*	50.0	67.0	7 100	40.0
42.0							19.4	53.2	4 300*	27.8	57.8	5 000*	37.8	62.4	6 500	45.7	65.1	5 900	42.0
44.0										19.6	53.0	4 400*	32.2	59.5	5 600	41.0	62.9	4 900	44.0
46.0													25.4	55.7	4 600	35.9	60.3	4 000	46.0
48.0													16.1	50.1	3 700	29.9	57.1	3 100	48.0
50.0																22.5	52.9	2 300	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

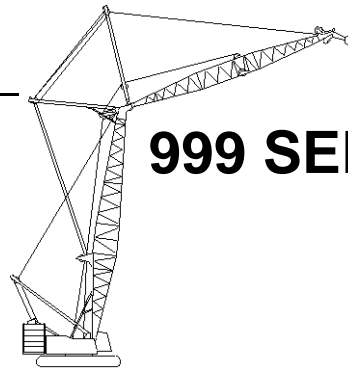
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 39.6m (130 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	74.3	79.9	22 400*																15.2
16.0	73.2	79.7	21 000*																16.0
17.0	71.7	79.4	19 200*																17.0
18.0	70.1	79.0	17 600*																18.0
19.0	68.5	78.6	16 200*	70.7	79.0	18 300*													19.0
20.0	67.0	78.2	15 000*	69.1	78.7	16 800*													20.0
21.0	65.4	77.7	13 900*	67.6	78.2	15 500*													21.0
22.0	63.8	77.2	12 900*	66.0	77.8	14 300*	69.2	78.4	16 900*										22.0
23.0	62.1	76.7	11 900*	64.4	77.3	13 200*	67.7	78.0	15 600*										23.0
24.0	60.4	76.1	11 100*	62.7	76.8	12 300*	66.1	77.6	14 400*										24.0
25.0	58.7	75.5	10 300*	61.1	76.2	11 400*	64.5	77.1	13 300*										25.0
26.0	57.0	74.8	9 600*	59.4	75.6	10 600*	62.8	76.6	12 400*	66.2	77.3	14 500*							26.0
27.0	55.3	74.2	9 000*	57.7	75.0	9 900*	61.2	76.0	11 500*	64.5	76.8	13 400*							27.0
28.0	53.4	73.4	8 400*	55.9	74.3	9 200*	59.5	75.4	10 700*	62.9	76.3	12 400*							28.0
29.0	51.6	72.6	7 800*	54.1	73.6	8 600*	57.8	74.8	10 000*	61.3	75.7	11 600*							29.0
30.0	49.7	71.8	7 300*	52.3	72.8	8 100*	56.0	74.1	9 300*	59.6	75.1	10 800*							30.0
31.0	47.7	70.9	6 800*	50.4	72.0	7 500*	54.2	73.4	8 700*	57.9	74.5	10 100*							31.0
32.0	45.7	69.9	6 400*	48.5	71.1	7 000*	52.4	72.6	8 100*	56.1	73.8	9 400*	61.9	75.1	11 800*				32.0
33.0	43.6	68.8	6 000*	46.5	70.2	6 600*	50.5	71.8	7 600*	54.3	73.1	8 800*	60.2	74.5	11 000*				33.0
34.0	41.4	67.7	5 600*	44.4	69.2	6 200*	48.6	70.9	7 100*	52.5	72.3	8 200*	58.5	73.9	10 300*				34.0
35.0	39.1	66.5	5 200*	42.3	68.1	5 800*	46.6	70.0	6 600*	50.6	71.5	7 600*	56.8	73.3	9 600*				35.0
36.0	36.7	65.2	4 800*	40.0	66.9	5 400*	44.5	69.0	6 200*	48.7	70.6	7 200*	55.0	72.6	9 000*				36.0
37.0	34.2	63.7	4 400*	37.7	65.6	5 000*	42.4	67.9	5 800*	46.7	69.7	6 700*	53.2	71.8	8 400*				37.0
38.0	31.4	62.1	4 100*	35.2	64.2	4 600*	40.2	66.7	5 400*	44.6	68.7	6 300*	51.3	71.0	7 800*				38.0
39.0	28.4	60.3	3 700*	32.5	62.6	4 300*	37.8	65.4	5 100*	42.5	67.6	5 900*	49.4	70.2	7 300*	55.5	71.7	7 600	39.0
40.0	25.1	58.2	3 400*	29.6	60.9	4 000*	35.3	64.0	4 700*	40.3	66.4	5 500*	47.4	69.2	6 900*	53.7	70.9	7 000	40.0
42.0				22.8	56.7	3 300*	29.8	60.8	4 100*	35.4	63.8	4 800*	43.3	67.2	6 000*	49.9	69.3	5 900	42.0
44.0							23.0	56.6	3 500*	29.9	60.5	4 200*	38.8	64.8	5 300*	46.0	67.4	4 900	44.0
46.0										23.2	56.4	3 500*	33.8	62.0	4 600	41.7	65.3	4 000	46.0
48.0													28.0	58.5	3 800	37.0	62.8	3 200	48.0
50.0													20.6	53.9	3 000	31.8	59.7	2 400	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 42.7m (140 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

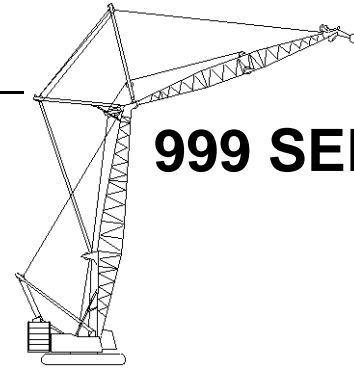
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	50.8	54.1	14 500*																12.2
13.0	45.4	53.2	12 900*																13.0
14.0	37.7	52.0	11 100*	48.7	53.6	13 900*													14.0
15.0	28.2	50.2	9 700*	41.6	52.5	12 000*													15.0
16.0				33.2	51.1	10 400*	50.1	53.6	14 600*b										16.0
17.0							43.3	52.6	12 400*	57.5	54.2	18 100*b							17.0
18.0							35.2	51.2	10 800*	51.4	53.4	15 200*							18.0
19.0										44.7	52.4	12 800*							19.0
20.0										37.0	51.1	11 200*							20.0
21.0										27.2	49.3	9 800*							21.0
22.0													49.0	52.2	14 500*				22.0
23.0													42.0	51.1	12 300*				23.0
24.0													33.6	49.7	10 700*				24.0
25.0																52.4	51.5	16 100*	25.0
26.0																45.8	50.6	13 500*	26.0
27.0																38.3	49.3	11 600*	27.0

### 42.7m (140 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	59.9	55.2	15 800*																10.7
11.0	58.0	55.0	15 000*																11.0
12.0	52.0	54.2	12 500*																12.0
13.0	45.4	53.2	10 500*	55.0	54.5	13 800*													13.0
14.0	37.7	52.0	9 100*	48.7	53.6	11 500*	62.0	55.1	17 600*b										14.0
15.0	28.2	50.2	8 000*	41.6	52.5	9 800*	56.3	54.4	14 400*										15.0
16.0				33.2	51.1	8 500*	50.1	53.6	11 900*										16.0
17.0							43.3	52.6	10 300*	57.5	54.2	15 100*							17.0
18.0							35.2	51.2	8 900*	51.4	53.4	12 600*							18.0
19.0										44.7	52.4	10 600*							19.0
20.0										37.0	51.1	9 200*	61.0	53.8	17 300*b				20.0
21.0										27.2	49.3	8 000*	55.3	53.1	14 300*				21.0
22.0													49.0	52.2	11 900*				22.0
23.0													42.0	51.1	10 200*				23.0
24.0													33.6	49.7	8 800*				24.0
25.0																52.4	51.5	13 400*	25.0
26.0																45.8	50.6	11 200*	26.0
27.0																38.3	49.3	9 600*	27.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 42.7m (140 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

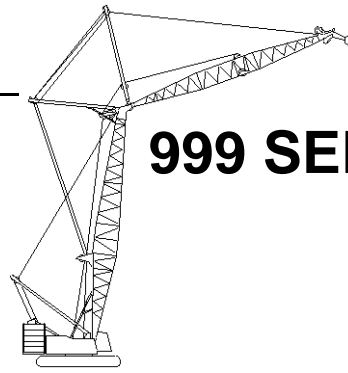
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	59.9	55.2	14 000*																10.7
11.0	58.0	55.0	13 200*																11.0
12.0	52.0	54.2	11 000*																12.0
13.0	45.4	53.2	9 200*	55.0	54.5	12 200*													13.0
14.0	37.7	52.0	8 000*	48.7	53.6	10 100*	62.0	55.1	15 600*b										14.0
15.0	28.2	50.2	6 900*	41.6	52.5	8 600*	56.3	54.4	12 700*										15.0
16.0				33.2	51.1	7 400*	50.1	53.6	10 500*	63.1	54.9	16 700*b							16.0
17.0							43.3	52.6	8 900*	57.5	54.2	13 200*							17.0
18.0							35.2	51.2	7 700*	51.4	53.4	10 900*							18.0
19.0										44.7	52.4	9 300*							19.0
20.0										37.0	51.1	8 000*	61.0	53.8	15 300*				20.0
21.0										27.2	49.3	6 900*	55.3	53.1	12 600*				21.0
22.0													49.0	52.2	10 400*				22.0
23.0													42.0	51.1	8 900*				23.0
24.0													33.6	49.7	7 600*				24.0
25.0																52.4	51.5	11 700*	25.0
26.0																45.8	50.6	9 700*	26.0
27.0																38.3	49.3	8 300*	27.0

### 42.7m (140 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	66.6	58.7	20 300*																10.7
11.0	65.1	58.6	19 200*																11.0
12.0	60.8	58.0	16 000*																12.0
13.0	56.2	57.3	13 500*	62.9	58.2	17 700*													13.0
14.0	51.4	56.5	11 700*	58.5	57.6	14 600*	68.1	58.5	22 600*b										14.0
15.0	46.1	55.6	10 200*	53.8	56.8	12 500*	63.9	58.0	18 500*										15.0
16.0	40.3	54.4	9 000*	48.7	55.9	10 900*	59.5	57.5	15 300*										16.0
17.0	33.7	53.0	8 000*	43.3	54.9	9 600*	54.8	56.7	13 100*	64.8	57.8	19 400*							17.0
18.0	25.3	51.0	7 100*	37.1	53.6	8 500*	49.9	55.9	11 300*	60.4	57.2	16 200*							18.0
19.0				29.7	51.9	7 500*	44.5	54.9	9 900*	55.8	56.5	13 600*							19.0
20.0							38.5	53.7	8 800*	50.9	55.7	11 800*							20.0
21.0							31.5	52.1	7 800*	45.7	54.8	10 300*							21.0
22.0										39.8	53.6	9 000*	58.7	56.1	15 400*				22.0
23.0										33.0	52.1	8 000*	54.0	54.5	13 000*				23.0
24.0										24.5	50.1	7 100*	49.0	54.5	11 300*				24.0
25.0													43.5	53.5	9 900*				25.0
26.0													37.4	52.2	8 700*	56.5	54.6	14 300*	26.0
27.0													30.1	50.5	7 800*	51.7	53.8	12 400*	27.0
28.0																46.5	52.9	10 700*	28.0
29.0																40.7	51.7	9 400*	29.0
30.0																34.1	50.3	8 300*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

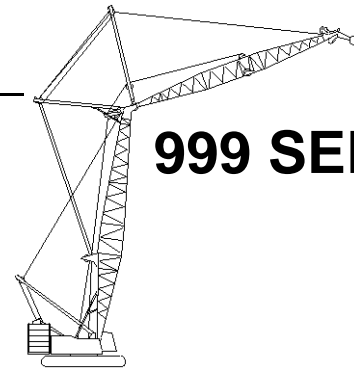
## 42.7m (140 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	68.2	56.1	18 300* <sup>b</sup>																9.1
10.0	63.6	55.6	15 400*																10.0
11.0	58.0	55.0	12 200*	66.2	55.8	17 100*													11.0
12.0	52.0	54.2	10 200*	60.8	55.2	13 700*													12.0
13.0	45.4	53.2	8 700*	55.0	54.5	11 100*													13.0
14.0	37.7	52.0	7 500*	48.7	53.6	9 400*	62.0	55.1	14 400*										14.0
15.0	28.2	50.2	6 600*	41.6	52.5	8 100*	56.3	54.4	11 800*										15.0
16.0				33.2	51.1	7 000*	50.1	53.6	9 800*	63.1	54.9	15 400*							16.0
17.0							43.3	52.6	8 400*	57.5	54.2	12 200*							17.0
18.0							35.2	51.2	7 300*	51.4	53.4	10 200*							18.0
19.0										44.7	52.4	8 700*							19.0
20.0										37.0	51.1	7 500*	61.0	53.8	14 100*				20.0
21.0										27.2	49.3	6 600*	55.3	53.1	11 700*				21.0
22.0													49.0	52.2	9 700*				22.0
23.0													42.0	51.1	8 300*				23.0
24.0													33.6	49.7	7 200*				24.0
25.0																52.4	51.5	10 800*	25.0
26.0																45.8	50.6	9 100*	26.0
27.0																38.3	49.3	7 800*	27.0

REFERENCE ONLY!



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

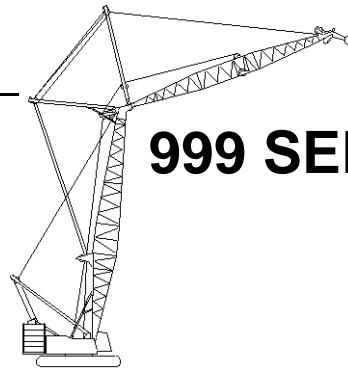
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**42.7m (140 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	72.8	59.4	25 700*b																9.1
10.0	69.3	59.0	21 500*																10.0
11.0	65.1	58.6	16 900*	71.3	59.1	24 000*													11.0
12.0	60.8	58.0	14 100*	67.2	58.7	19 000*													12.0
13.0	56.2	57.3	12 000*	62.9	58.2	15 400*													13.0
14.0	51.4	56.5	10 400*	58.5	57.6	13 100*	68.1	58.5	20 100*										14.0
15.0	46.1	55.6	9 100*	53.8	56.8	11 200*	63.9	58.0	16 500*										15.0
16.0	40.3	54.4	8 000*	48.7	55.9	9 700*	59.5	57.5	13 600*										16.0
17.0	33.7	53.0	7 100*	43.3	54.9	8 600*	54.8	56.7	11 700*	64.8	57.8	17 200*							17.0
18.0	25.3	51.0	6 300*	37.1	53.6	7 600*	49.9	55.9	10 100*	60.4	57.2	14 400*							18.0
19.0				29.7	51.9	6 700*	44.5	54.9	8 800*	55.8	56.5	12 100*							19.0
20.0							38.5	53.7	7 800*	50.9	55.7	10 500*							20.0
21.0							31.5	52.1	6 900*	45.7	54.8	9 100*							21.0
22.0										39.8	53.6	8 000*	58.7	56.1	13 700*				22.0
23.0										33.0	52.1	7 100*	54.0	55.4	11 500*				23.0
24.0										24.5	50.1	6 300*	49.0	54.5	10 000*				24.0
25.0													43.5	53.5	8 800*				25.0
26.0													37.4	52.2	7 800*	56.5	54.6	12 600*	26.0
27.0													30.1	50.5	6 900*	51.7	53.8	11 000*	27.0
28.0																46.5	52.9	9 500*	28.0
29.0																40.7	51.7	8 300*	29.0
30.0																34.1	50.3	7 400*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

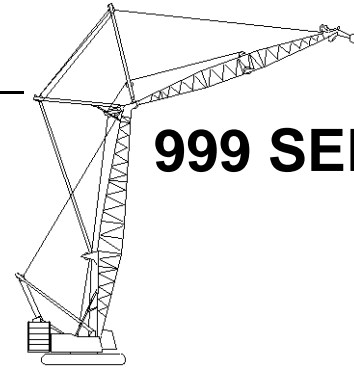
### 42.7m (140 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	75.8	62.6	26 700* <sup>b</sup>																9.1
10.0	73.0	62.3	24 600*																10.0
11.0	69.6	61.9	22 000*																11.0
12.0	66.1	61.5	18 300*																12.0
13.0	62.6	60.9	15 300*	67.8	61.6	20 100*													13.0
14.0	58.9	60.3	13 300*	64.3	61.1	16 600*													14.0
15.0	55.0	59.6	11 600*	60.7	60.5	14 300*													15.0
16.0	51.0	58.8	10 300*	56.9	59.9	12 400*	65.1	61.0	17 600*										16.0
17.0	46.6	57.9	9 100*	53.0	59.1	11 000*	61.5	60.4	14 900*										17.0
18.0	42.0	56.8	8 100*	48.8	58.2	9 700*	57.8	59.8	12 900*										18.0
19.0	36.8	55.5	7 300*	44.3	57.2	8 600*	53.9	59.0	11 300*	62.3	60.2	15 600*							19.0
20.0	30.8	53.8	6 600*	39.4	56.0	7 700*	49.7	58.2	10 000*	58.5	59.6	13 300*							20.0
21.0	23.3	51.7	6 000*	33.8	54.6	7 000*	45.3	57.2	8 900*	54.7	58.8	11 700*							21.0
22.0				27.2	52.7	6 300*	40.5	56.1	8 000*	50.6	58.0	10 300*							22.0
23.0							35.1	54.7	7 200*	46.2	57.1	9 200*	60.9	59.1	14 700*				23.0
24.0							28.8	52.9	6 500*	41.5	55.9	8 200*	57.1	58.4	12 900*				24.0
25.0										36.3	54.6	7 400*	53.2	57.7	11 200*				25.0
26.0										30.2	53.0	6 600*	49.0	56.8	10 000*				26.0
27.0										22.5	50.7	6 000*	44.5	55.8	8 900*				27.0
28.0													39.6	54.6	8 000*	55.3	56.9	12 200*	28.0
29.0													34.1	53.2	7 200*	51.2	56.1	10 700*	29.0
30.0													27.5	51.3	6 500*	46.9	55.2	9 500*	30.0
31.0																42.3	54.1	8 500*	31.0
32.0																37.1	52.8	7 600*	32.0
33.0																31.2	51.2	6 900*	33.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

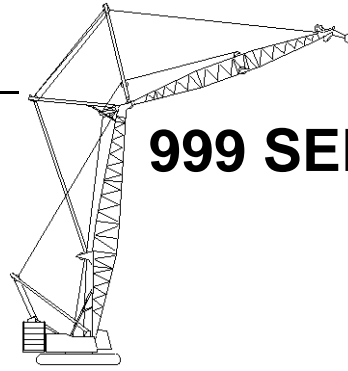
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**42.7m (140 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	73.6	65.3	26 700*																10.7
11.0	72.7	65.2	25 900*																11.0
12.0	69.8	64.8	23 300*																12.0
13.0	66.8	64.4	20 500*	71.2	64.9	24 600*													13.0
14.0	63.8	63.9	17 400*	68.3	64.5	22 000*													14.0
15.0	60.7	63.3	15 300*	65.3	64.0	18 900*													15.0
16.0	57.5	62.7	13 500*	62.2	63.5	16 300*													16.0
17.0	54.2	61.9	12 000*	59.1	62.9	14 400*	66.0	63.9	19 500*										17.0
18.0	50.7	61.1	10 700*	55.8	62.2	12 800*	62.9	63.4	17 000*										18.0
19.0	47.0	60.2	9 700*	52.4	61.4	11 400*	59.8	62.8	14 900*										19.0
20.0	43.1	59.1	8 800*	48.8	60.5	10 300*	56.5	62.1	13 200*	63.5	63.1	17 600*							20.0
21.0	38.8	57.9	8 000*	45.0	59.6	9 300*	53.2	61.3	11 800*	60.4	62.5	15 400*							21.0
22.0	34.0	56.4	7 200*	40.9	58.4	8 400*	49.6	60.5	10 600*	57.2	61.9	13 600*							22.0
23.0	28.6	54.7	6 600*	36.4	57.1	7 600*	45.9	59.5	9 500*	53.9	61.1	12 100*							23.0
24.0	21.8	52.4	6 100*	31.3	55.5	6 900*	41.8	58.4	8 600*	50.4	60.3	10 900*							24.0
25.0				25.3	53.5	6 300*	37.5	57.1	7 900*	46.7	59.4	9 800*	59.2	61.4	14 900*				25.0
26.0							32.5	55.6	7 100*	42.7	58.3	8 900*	56.0	60.7	13 100*				26.0
27.0							26.8	53.7	6 500*	38.4	57.1	8 100*	52.6	60.0	11 700*				27.0
28.0										33.6	55.6	7 300*	49.0	59.1	10 500*				28.0
29.0										28.0	53.8	6 700*	45.2	58.1	9 500*	57.7	59.9	14 100*	29.0
30.0										21.1	51.4	6 100*	41.1	57.0	8 600*	54.4	59.2	12 600*	30.0
31.0													36.6	55.7	7 900*	50.9	58.4	11 200*	31.0
32.0													31.6	54.1	7 200*	47.2	57.5	10 200*	32.0
33.0													25.6	52.1	6 500*	43.3	56.4	9 200*	33.0
34.0																39.1	55.2	8 300*	34.0
35.0																34.4	53.8	7 600*	35.0
36.0																29.0	52.1	6 900*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

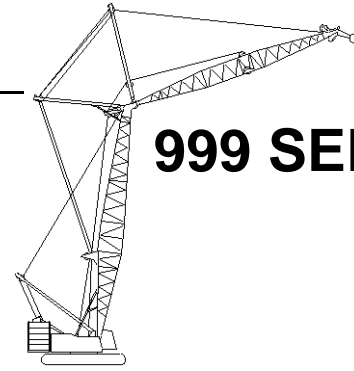
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 42.7m (140 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.7	68.5	26 700*																10.7
11.0	74.9	68.4	26 700*																11.0
12.0	72.4	68.0	26 700*																12.0
13.0	69.9	67.7	24 200*																13.0
14.0	67.3	67.3	21 200*	71.1	67.8	25 800*													14.0
15.0	64.7	66.8	18 600*	68.6	67.4	22 700*													15.0
16.0	62.1	66.2	16 500*	66.0	66.9	19 900*													16.0
17.0	59.3	65.6	14 800*	63.4	66.4	17 500*	69.2	67.2	23 700*										17.0
18.0	56.5	65.0	13 300*	60.7	65.8	15 600*	66.6	66.8	20 700*										18.0
19.0	53.5	64.2	12 000*	57.9	65.2	14 000*	64.0	66.3	18 100*										19.0
20.0	50.5	63.4	10 900*	55.0	64.5	12 700*	61.3	65.7	16 200*	67.1	66.5	21 300*							20.0
21.0	47.3	62.5	9 900*	52.0	63.7	11 500*	58.5	65.1	14 500*	64.5	66.0	18 800*							21.0
22.0	43.9	61.5	9 100*	48.8	62.8	10 400*	55.6	64.4	13 000*	61.8	65.5	16 600*							22.0
23.0	40.2	60.3	8 300*	45.5	61.9	9 500*	52.6	63.7	11 800*	59.1	64.9	14 900*							23.0
24.0	36.3	58.9	7 700*	42.0	60.8	8 700*	49.5	62.8	10 700*	56.2	64.2	13 400*							24.0
25.0	31.9	57.4	7 100*	38.2	59.5	8 000*	46.3	61.8	9 800*	53.3	63.4	12 200*							25.0
26.0	26.8	55.5	6 500*	34.1	58.1	7 400*	42.8	60.8	9 000*	50.2	62.6	11 100*	60.8	64.4	16 100*				26.0
27.0	20.6	53.0	6 000*	29.4	56.4	6 800*	39.1	59.6	8 300*	47.0	61.7	10 100*	58.0	63.8	14 500*				27.0
28.0				23.8	54.2	6 300*	35.0	58.2	7 600*	43.6	60.6	9 200*	55.1	63.1	13 000*				28.0
29.0							30.5	56.5	7 000*	39.9	59.5	8 500*	52.1	62.3	11 800*				29.0
30.0							25.2	54.5	6 500*	35.9	58.1	7 800*	49.0	61.4	10 800*				30.0
31.0										31.5	56.5	7 200*	45.7	60.4	9 900*				31.0
32.0										26.3	54.6	6 600*	42.2	59.3	9 000*	53.7	61.5	12 600*	32.0
33.0										19.9	52.1	6 100*	38.4	58.1	8 300*	50.7	60.7	11 500*	33.0
34.0													34.3	56.7	7 600*	47.5	59.8	10 400*	34.0
35.0													29.6	55.0	7 100*	44.1	58.8	9 600*	35.0
36.0													24.1	52.8	6 500*	40.5	57.6	8 800*	36.0
37.0																36.5	56.3	8 100*	37.0
38.0																32.2	54.7	7 400*	38.0
39.0																27.2	52.9	6 900*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

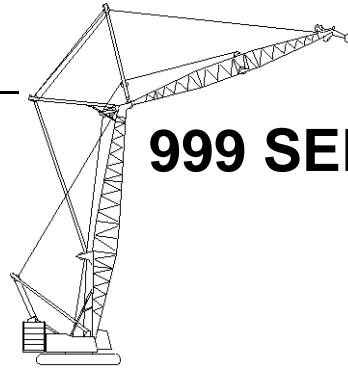
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 42.7m (140 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.0	71.2	26 700*																12.2
13.0	72.3	70.9	26 700*																13.0
14.0	70.0	70.6	26 000*	73.3	71.0	26 700*													14.0
15.0	67.7	70.1	23 400*	71.1	70.6	26 700*													15.0
16.0	65.4	69.7	21 100*	68.9	70.2	24 800*													16.0
17.0	63.1	69.2	19 000*	66.6	69.8	22 400*													17.0
18.0	60.7	68.6	17 200*	64.2	69.3	20 100*													18.0
19.0	58.2	68.0	15 600*	61.8	68.8	18 200*	67.1	69.7	23 300*										19.0
20.0	55.7	67.3	14 200*	59.4	68.2	16 400*	64.7	69.2	20 800*										20.0
21.0	53.0	66.5	12 900*	56.9	67.5	14 900*	62.4	68.7	18 700*										21.0
22.0	50.3	65.7	11 900*	54.3	66.8	13 600*	60.0	68.1	16 900*	65.2	68.9	21 500*							22.0
23.0	47.5	64.8	10 900*	51.6	66.0	12 500*	57.5	67.4	15 400*	62.9	68.4	19 200*							23.0
24.0	44.5	63.8	10 100*	48.9	65.1	11 500*	54.9	66.7	14 000*	60.5	67.8	17 400*							24.0
25.0	41.3	62.7	9 300*	45.9	64.2	10 600*	52.2	66.0	12 800*	58.0	67.2	15 800*							25.0
26.0	37.9	61.4	8 600*	42.9	63.1	9 800*	49.5	65.1	11 800*	55.4	66.5	14 400*							26.0
27.0	34.2	59.9	8 000*	39.6	61.9	9 000*	46.6	64.2	10 800*	52.8	65.8	13 200*							27.0
28.0	30.1	58.3	7 400*	36.1	60.6	8 300*	43.6	63.1	10 000*	50.1	64.9	12 100*	59.5	66.7	16 900*				28.0
29.0	25.4	56.3	6 900*	32.2	59.0	7 700*	40.3	61.9	9 300*	47.2	64.0	11 200*	57.0	66.1	15 400*				29.0
30.0	19.6	53.7	6 400*	27.8	57.2	7 200*	36.9	60.6	8 600*	44.2	63.0	10 300*	54.4	65.4	14 100*				30.0
31.0				22.6	54.9	6 700*	33.1	59.1	8 000*	41.0	61.8	9 500*	51.8	64.6	12 900*				31.0
32.0				15.8	51.8	6 300*	28.8	57.4	7 400*	37.6	60.5	8 800*	49.0	63.7	11 900*				32.0
33.0							23.9	55.2	6 900*	33.9	59.1	8 200*	46.1	62.8	11 000*				33.0
34.0										29.8	57.4	7 600*	43.0	61.7	10 100*	53.2	63.8	13 400	34.0
35.0										25.0	55.3	7 100*	39.8	60.5	9 400*	50.5	63.0	12 500	35.0
36.0										19.0	52.7	6 600*	36.2	59.2	8 700*	47.6	62.1	11 600*	36.0
37.0													32.4	57.6	8 100*	44.7	61.1	10 700*	37.0
38.0													28.0	55.8	7 500*	41.5	60.0	9 900*	38.0
39.0													22.9	53.6	7 000*	38.2	58.7	9 200*	39.0
40.0																34.5	57.3	8 500*	40.0
42.0																25.8	53.6	7 300*	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

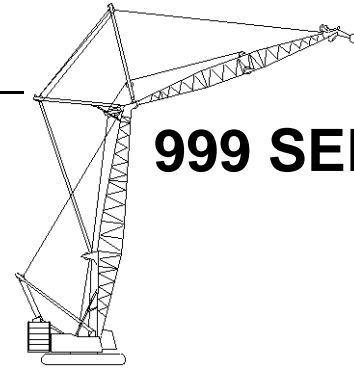
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 42.7m (140 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.7	68.5	26 700*																10.7
11.0	74.9	68.4	26 400*																11.0
12.0	72.4	68.0	25 600*																12.0
13.0	69.9	67.7	23 200*																13.0
14.0	67.3	67.3	19 500*	71.1	67.8	24 400*													14.0
15.0	64.7	66.8	17 200*	68.6	67.4	21 100*													15.0
16.0	62.1	66.2	15 200*	66.0	66.9	18 300*													16.0
17.0	59.3	65.6	13 600*	63.4	66.4	16 200*	69.2	67.2	21 800*										17.0
18.0	56.5	65.0	12 200*	60.7	65.8	14 400*	66.6	66.8	19 100*										18.0
19.0	53.5	64.2	11 000*	57.9	65.2	13 000*	64.0	66.3	16 700*										19.0
20.0	50.5	63.4	10 000*	55.0	64.5	11 700*	61.3	65.7	14 900*	67.1	66.5	19 700*							20.0
21.0	47.3	62.5	9 100*	52.0	63.7	10 600*	58.5	65.1	13 400*	64.5	66.0	17 400*							21.0
22.0	43.9	61.5	8 400*	48.8	62.8	9 600*	55.6	64.4	12 100*	61.8	65.5	15 300*							22.0
23.0	40.2	60.3	7 700*	45.5	61.9	8 800*	52.6	63.7	10 900*	59.1	64.9	13 800*							23.0
24.0	36.3	58.9	7 000*	42.0	60.8	8 000*	49.5	62.8	9 900*	56.2	64.2	12 400*							24.0
25.0	31.9	57.4	6 500*	38.2	59.5	7 400*	46.3	61.8	9 000*	53.3	63.4	11 200*							25.0
26.0	26.8	55.5	6 000*	34.1	58.1	6 800*	42.8	60.8	8 300*	50.2	62.6	10 200*	60.8	64.4	14 900*				26.0
27.0	20.6	53.0	5 500*	29.4	56.4	6 200*	39.1	59.6	7 600*	47.0	61.7	9 300*	58.0	63.8	13 400*				27.0
28.0				23.8	54.2	5 800*	35.0	58.2	7 000*	43.6	60.6	8 500*	55.1	63.1	12 000*				28.0
29.0							30.5	56.5	6 400*	39.9	59.5	7 800*	52.1	62.3	10 900*				29.0
30.0							25.2	54.5	5 900*	35.9	58.1	7 200*	49.0	61.4	9 900*				30.0
31.0										31.5	56.5	6 600*	45.7	60.4	9 100*				31.0
32.0										26.3	54.6	6 100*	42.2	59.3	8 300*	53.7	61.5	11 600*	32.0
33.0										19.9	52.1	5 600*	38.4	58.1	7 700*	50.7	60.7	10 600*	33.0
34.0													34.3	56.7	7 100*	47.5	59.8	9 600*	34.0
35.0													29.6	55.0	6 500*	44.1	58.8	8 800*	35.0
36.0													24.1	52.8	6 000*	40.5	57.6	8 100*	36.0
37.0																36.5	56.3	7 400*	37.0
38.0																32.2	54.7	6 900*	38.0
39.0																27.2	52.9	6 300*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

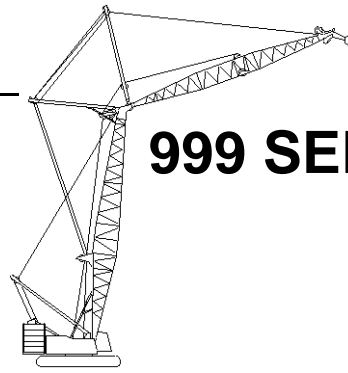
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 42.7m (140 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.0	71.2	26 700*																12.2
13.0	72.3	70.9	26 200*																13.0
14.0	70.0	70.6	25 200*	73.3	71.0	26 500*													14.0
15.0	67.7	70.1	22 200*	71.1	70.6	25 900*													15.0
16.0	65.4	69.7	19 400*	68.9	70.2	24 000*													16.0
17.0	63.1	69.2	17 400*	66.6	69.8	20 700*													17.0
18.0	60.7	68.6	15 700*	64.2	69.3	18 500*													18.0
19.0	58.2	68.0	14 200*	61.8	68.8	16 600*	67.1	69.7	21 500*										19.0
20.0	55.7	67.3	13 000*	59.4	68.2	15 000*	64.7	69.2	19 000*										20.0
21.0	53.0	66.5	11 800*	56.9	67.5	13 700*	62.4	68.7	17 100*										21.0
22.0	50.3	65.7	10 800*	54.3	66.8	12 400*	60.0	68.1	15 500*	65.2	68.9	19 700*							22.0
23.0	47.5	64.8	9 900*	51.6	66.0	11 400*	57.5	67.4	14 000*	62.9	68.4	17 600*							23.0
24.0	44.5	63.8	9 200*	48.9	65.1	10 400*	54.9	66.7	12 800*	60.5	67.8	15 900*							24.0
25.0	41.3	62.7	8 500*	45.9	64.2	9 600*	52.2	66.0	11 700*	58.0	67.2	14 400*							25.0
26.0	37.9	61.4	7 800*	42.9	63.1	8 900*	49.5	65.1	10 800*	55.4	66.5	13 200*							26.0
27.0	34.2	59.9	7 300*	39.6	61.9	8 200*	46.6	64.2	9 900*	52.8	65.8	12 000*							27.0
28.0	30.1	58.3	6 700*	36.1	60.6	7 600*	43.6	63.1	9 100*	50.1	64.9	11 100*	59.5	66.7	15 500*				28.0
29.0	25.4	56.3	6 200*	32.2	59.0	7 000*	40.3	61.9	8 400*	47.2	64.0	10 200*	57.0	66.1	14 100*				29.0
30.0	19.6	53.7	5 800*	27.8	57.2	6 500*	36.9	60.6	7 800*	44.2	63.0	9 400*	54.4	65.4	12 900*				30.0
31.0				22.6	54.9	6 100*	33.1	59.1	7 200*	41.0	61.8	8 700*	51.8	64.6	11 800*				31.0
32.0				15.8	51.8	5 700*	28.8	57.4	6 700*	37.6	60.5	8 000*	49.0	63.7	10 800*				32.0
33.0							23.9	55.2	6 200*	33.9	59.1	7 400*	46.1	62.8	10 000*				33.0
34.0										29.8	57.4	6 900*	43.0	61.7	9 300*	53.2	63.8	12 000	34.0
35.0										25.0	55.3	6 400*	39.8	60.5	8 600*	50.5	63.0	11 200	35.0
36.0										19.0	52.7	6 000*	36.2	59.2	7 900*	47.6	62.1	10 400	36.0
37.0													32.4	57.6	7 300*	44.7	61.1	9 700	37.0
38.0													28.0	55.8	6 800*	41.5	60.0	9 000	38.0
39.0													22.9	53.6	6 300*	38.2	58.7	8 400	39.0
40.0																34.5	57.3	7 800	40.0
42.0																25.8	53.6	6 600	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

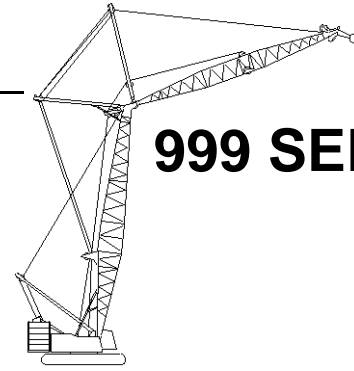
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 42.7m (140 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.7	68.5	26 700*																10.7
11.0	74.9	68.4	26 000*																11.0
12.0	72.4	68.0	23 900*																12.0
13.0	69.9	67.7	21 200*																13.0
14.0	67.3	67.3	18 000*	71.1	67.8	22 600*													14.0
15.0	64.7	66.8	15 900*	68.6	67.4	19 500*													15.0
16.0	62.1	66.2	14 100*	66.0	66.9	16 900*													16.0
17.0	59.3	65.6	12 600*	63.4	66.4	15 000*	69.2	67.2	20 200*										17.0
18.0	56.5	65.0	11 300*	60.7	65.8	13 300*	66.6	66.8	17 700*										18.0
19.0	53.5	64.2	10 200*	57.9	65.2	12 000*	64.0	66.3	15 500*										19.0
20.0	50.5	63.4	9 300*	55.0	64.5	10 800*	61.3	65.7	13 800*	67.1	66.5	18 200*							20.0
21.0	47.3	62.5	8 400*	52.0	63.7	9 800*	58.5	65.1	12 300*	64.5	66.0	16 100*							21.0
22.0	43.9	61.5	7 700*	48.8	62.8	8 900*	55.6	64.4	11 100*	61.8	65.5	14 200*							22.0
23.0	40.2	60.3	7 000*	45.5	61.9	8 100*	52.6	63.7	10 100*	59.1	64.9	12 700*							23.0
24.0	36.3	58.9	6 500*	42.0	60.8	7 400*	49.5	62.8	9 100*	56.2	64.2	11 400*							24.0
25.0	31.9	57.4	5 900*	38.2	59.5	6 800*	46.3	61.8	8 400*	53.3	63.4	10 400*							25.0
26.0	26.8	55.5	5 400*	34.1	58.1	6 300*	42.8	60.8	7 600*	50.2	62.6	9 400*	60.8	64.4	13 700*				26.0
27.0	20.6	53.0	5 000*	29.4	56.4	5 700*	39.1	59.6	7 000*	47.0	61.7	8 600*	58.0	63.8	12 400*				27.0
28.0				23.8	54.2	5 300*	35.0	58.2	6 400*	43.6	60.6	7 800*	55.1	63.1	11 100*				28.0
29.0							30.5	56.5	5 900*	39.9	59.5	7 200*	52.1	62.3	10 100*				29.0
30.0							25.2	54.5	5 500*	35.9	58.1	6 600*	49.0	61.4	9 200*				30.0
31.0										31.5	56.5	6 100*	45.7	60.4	8 400*				31.0
32.0										26.3	54.6	5 600*	42.2	59.3	7 700*	53.7	61.5	10 700*	32.0
33.0										19.9	52.1	5 100*	38.4	58.1	7 100*	50.7	60.7	9 800*	33.0
34.0													34.3	56.7	6 500*	47.5	59.8	8 900*	34.0
35.0													29.6	55.0	6 000*	44.1	58.8	8 200*	35.0
36.0													24.1	52.8	5 500*	40.5	57.6	7 500*	36.0
37.0																36.5	56.3	6 900*	37.0
38.0																32.2	54.7	6 300*	38.0
39.0																27.2	52.9	5 800*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 42.7m (140 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

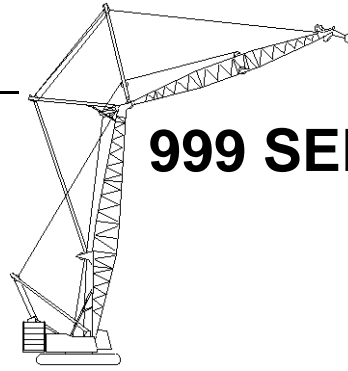
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.0	71.2	26 700*																12.2
13.0	72.3	70.9	25 100*																13.0
14.0	70.0	70.6	23 000*	73.3	71.0	26 100*													14.0
15.0	67.7	70.1	20 300*	71.1	70.6	24 200*													15.0
16.0	65.4	69.7	17 900*	68.9	70.2	21 800*													16.0
17.0	63.1	69.2	16 000*	66.6	69.8	19 000*													17.0
18.0	60.7	68.6	14 400*	64.2	69.3	17 000*													18.0
19.0	58.2	68.0	13 100*	61.8	68.8	15 200*	67.1	69.7	19 800*										19.0
20.0	55.7	67.3	11 900*	59.4	68.2	13 800*	64.7	69.2	17 500*										20.0
21.0	53.0	66.5	10 800*	56.9	67.5	12 500*	62.4	68.7	15 800*										21.0
22.0	50.3	65.7	9 900*	54.3	66.8	11 400*	60.0	68.1	14 200*	65.2	68.9	18 100*							22.0
23.0	47.5	64.8	9 100*	51.6	66.0	10 400*	57.5	67.4	12 900*	62.9	68.4	16 200*							23.0
24.0	44.5	63.8	8 400*	48.9	65.1	9 600*	54.9	66.7	11 800*	60.5	67.8	14 600*							24.0
25.0	41.3	62.7	7 700*	45.9	64.2	8 800*	52.2	66.0	10 800*	58.0	67.2	13 300*							25.0
26.0	37.9	61.4	7 200*	42.9	63.1	8 100*	49.5	65.1	9 900*	55.4	66.5	12 100*							26.0
27.0	34.2	59.9	6 600*	39.6	61.9	7 500*	46.6	64.2	9 100*	52.8	65.8	11 100*							27.0
28.0	30.1	58.3	6 100*	36.1	60.6	6 900*	43.6	63.1	8 400*	50.1	64.9	10 100*	59.5	66.7	14 300*				28.0
29.0	25.4	56.3	5 700*	32.2	59.0	6 400*	40.3	61.9	7 700*	47.2	64.0	9 400*	57.0	66.1	13 000*				29.0
30.0	19.6	53.7	5 300*	27.8	57.2	6 000*	36.9	60.6	7 100*	44.2	63.0	8 600*	54.4	65.4	11 800*				30.0
31.0				22.6	54.9	5 500*	33.1	59.1	6 600*	41.0	61.8	8 000*	51.8	64.6	10 800*				31.0
32.0				15.8	51.8	5 200*	28.8	57.4	6 100*	37.6	60.5	7 300*	49.0	63.7	10 000*				32.0
33.0							23.9	55.2	5 700*	33.9	59.1	6 800*	46.1	62.8	9 200*				33.0
34.0										29.8	57.4	6 300*	43.0	61.7	8 500*	53.2	63.8	10 700	34.0
35.0										25.0	55.3	5 900*	39.8	60.5	7 800*	50.5	63.0	9 800	35.0
36.0										19.0	52.7	5 400*	36.2	59.2	7 200*	47.6	62.1	9 000	36.0
37.0													32.4	57.6	6 700*	44.7	61.1	8 300	37.0
38.0													28.0	55.8	6 300*	41.5	60.0	7 600	38.0
39.0													22.9	53.6	5 800*	38.2	58.7	6 900	39.0
40.0																34.5	57.3	6 300	40.0
42.0																25.8	53.6	5 100	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



## 999 SERIES 3

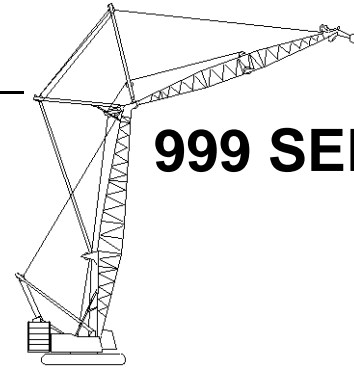
### 42.7m (140 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.7	74.4	26 700*																12.2
13.0	74.1	74.1	26 500*																13.0
14.0	72.1	73.8	25 800*																14.0
15.0	70.1	73.4	23 300*																15.0
16.0	68.1	73.0	20 800*	71.1	73.5	24 300*													16.0
17.0	66.0	72.6	18 800*	69.1	73.1	21 900*													17.0
18.0	63.9	72.1	17 000*	67.0	72.7	19 800*													18.0
19.0	61.7	71.5	15 400*	64.9	72.2	17 900*	69.5	73.0	22 600*										19.0
20.0	59.6	71.0	14 000*	62.8	71.7	16 300*	67.5	72.5	20 400*										20.0
21.0	57.3	70.3	12 800*	60.6	71.1	14 800*	65.4	72.1	18 500*										21.0
22.0	55.0	69.6	11 800*	58.4	70.5	13 500*	63.3	71.6	16 700*										22.0
23.0	52.6	68.8	10 800*	56.1	69.9	12 400*	61.1	71.0	15 200*	65.8	71.8	18 900*							23.0
24.0	50.2	68.0	10 000*	53.8	69.1	11 400*	58.9	70.4	13 900*	63.7	71.3	17 200*							24.0
25.0	47.6	67.1	9 200*	51.4	68.3	10 500*	56.6	69.8	12 800*	61.6	70.8	15 600*							25.0
26.0	45.0	66.1	8 600*	48.9	67.4	9 700*	54.3	69.0	11 700*	59.4	70.2	14 300*							26.0
27.0	42.2	65.0	7 900*	46.3	66.5	9 000*	51.9	68.3	10 800*	57.1	69.5	13 100*							27.0
28.0	39.2	63.8	7 300*	43.5	65.4	8 300*	49.4	67.4	10 000*	54.8	68.8	12 100*							28.0
29.0	36.0	62.4	6 800*	40.6	64.3	7 700*	46.8	66.5	9 300*	52.4	68.1	11 100*	60.7	69.7	15 200*				29.0
30.0	32.5	60.9	6 400*	37.6	63.0	7 200*	44.1	65.4	8 600*	49.9	67.2	10 300*	58.5	69.1	14 000*				30.0
31.0	28.7	59.1	5 900*	34.3	61.6	6 700*	41.3	64.3	8 000*	47.4	66.3	9 500*	56.2	68.4	12 800*				31.0
32.0	24.3	57.0	5 500*	30.6	59.9	6 200*	38.3	63.1	7 400*	44.7	65.3	8 800*	53.9	67.7	11 800*				32.0
33.0	18.8	54.3	5 200*	26.5	58.0	5 800*	35.0	61.6	6 900*	41.9	64.2	8 200*	51.5	66.9	10 900*				33.0
34.0				21.7	55.6	5 400*	31.5	60.0	6 400*	38.9	63.0	7 600*	49.0	66.0	10 100*				34.0
35.0				15.3	52.4	5 100*	27.5	58.2	6 000*	35.7	61.6	7 100*	46.4	65.1	9 400*				35.0
36.0							22.8	55.9	5 600*	32.2	60.0	6 600*	43.7	64.0	8 700*	52.8	66.1	9 200	36.0
37.0										28.3	58.2	6 200*	40.8	62.9	8 100*	50.3	65.3	8 500	37.0
38.0										23.8	56.1	5 800*	37.7	61.6	7 600*	47.8	64.4	7 800	38.0
39.0										18.3	53.3	5 400*	34.4	60.2	7 100*	45.1	63.4	7 200	39.0
40.0													30.8	58.5	6 600*	42.3	62.3	6 600	40.0
42.0													21.9	54.2	5 700*	36.2	59.8	5 400	42.0
44.0																29.0	56.5	4 400	44.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

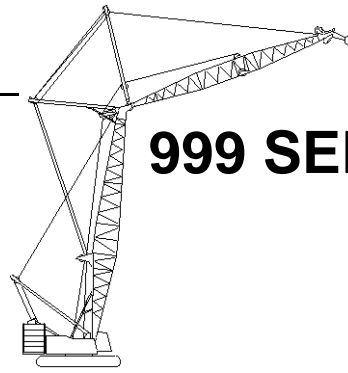
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 42.7m (140 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	74.3	77.1	25 500*																13.7
14.0	73.8	77.0	24 800*																14.0
15.0	72.0	76.7	22 400*																15.0
16.0	70.2	76.3	20 200*																16.0
17.0	68.3	75.9	18 400*	71.1	76.4	21 300*													17.0
18.0	66.4	75.5	16 900*	69.2	76.0	19 300*													18.0
19.0	64.5	75.0	15 500*	67.4	75.6	17 600*													19.0
20.0	62.6	74.5	14 200*	65.5	75.1	16 200*	69.6	75.9	19 800*										20.0
21.0	60.6	73.9	13 200*	63.6	74.6	14 900*	67.8	75.4	18 000*										21.0
22.0	58.6	73.3	12 100*	61.6	74.1	13 700*	65.9	75.0	16 500*										22.0
23.0	56.6	72.6	11 200*	59.6	73.5	12 700*	64.0	74.5	15 100*										23.0
24.0	54.5	71.9	10 300*	57.6	72.9	11 700*	62.0	74.0	14 000*										24.0
25.0	52.3	71.1	9 400*	55.5	72.2	10 800*	60.1	73.4	12 900*	64.4	74.2	15 500*							25.0
26.0	50.1	70.3	8 700*	53.4	71.4	9 900*	58.0	72.8	12 000*	62.4	73.7	14 200*							26.0
27.0	47.7	69.4	8 000*	51.2	70.6	9 100*	56.0	72.1	11 100*	60.5	73.1	13 200*							27.0
28.0	45.3	68.4	7 400*	48.9	69.7	8 400*	53.8	71.3	10 300*	58.5	72.5	12 200*							28.0
29.0	42.8	67.3	6 800*	46.5	68.8	7 800*	51.7	70.6	9 400*	56.4	71.9	11 300*							29.0
30.0	40.2	66.2	6 300*	44.1	67.8	7 200*	49.4	69.7	8 700*	54.3	71.1	10 500*							30.0
31.0	37.4	64.9	5 800*	41.5	66.7	6 600*	47.1	68.8	8 000*	52.1	70.4	9 800*	59.7	72.0	12 800*				31.0
32.0	34.4	63.4	5 300*	38.8	65.4	6 100*	44.6	67.8	7 400*	49.9	69.5	9 000*	57.7	71.4	11 800*				32.0
33.0	31.1	61.8	5 000*	35.9	64.0	5 600*	42.1	66.7	6 900*	47.5	68.6	8 300*	55.6	70.7	11 000*				33.0
34.0	27.5	59.9	4 600*	32.7	62.5	5 200*	39.4	65.4	6 300*	45.1	67.6	7 600*	53.5	70.0	10 300*				34.0
35.0	23.3	57.7	4 200*	29.3	60.8	4 800*	36.5	64.1	5 900*	42.6	66.5	7 100*	51.3	69.2	9 600*				35.0
36.0	18.2	54.9	3 900*	25.4	58.8	4 500*	33.4	62.6	5 400*	39.9	65.3	6 500*	49.0	68.3	8 800*				36.0
37.0				20.8	56.3	4 100*	30.1	60.9	5 000*	37.1	64.0	6 100*	46.6	67.4	8 200*	54.6	69.2	8 600	37.0
38.0				14.9	52.9	3 800*	26.3	59.0	4 600*	34.1	62.6	5 600*	44.2	66.3	7 600*	52.4	68.4	7 900	38.0
39.0							21.9	56.6	4 300*	30.8	60.9	5 200*	41.6	65.2	7 000*	50.2	67.6	7 200	39.0
40.0										27.1	59.0	4 800*	38.9	64.0	6 500*	47.9	66.7	6 600	40.0
42.0										17.6	53.9	4 100*	32.9	61.1	5 600*	43.0	64.7	5 500	42.0
44.0													25.6	57.4	4 800*	37.6	62.2	4 500	44.0
46.0																31.3	59.2	3 500	46.0
48.0																23.6	55.1	2 700	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

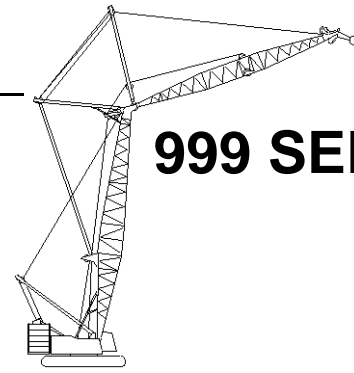
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 42.7m (140 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	75.7	80.3	26 700*																13.7
14.0	75.2	80.2	26 100*																14.0
15.0	73.6	79.9	24 100*																15.0
16.0	71.9	79.6	22 100*																16.0
17.0	70.2	79.2	20 200*	72.7	79.6	23 200*													17.0
18.0	68.5	78.8	18 600*	71.0	79.3	21 200*													18.0
19.0	66.8	78.4	17 100*	69.4	78.9	19 400*													19.0
20.0	65.1	77.9	15 900*	67.7	78.5	17 900*													20.0
21.0	63.3	77.4	14 700*	65.9	78.0	16 500*													21.0
22.0	61.5	76.8	13 700*	64.2	77.5	15 300*	68.0	78.3	18 300*										22.0
23.0	59.7	76.3	12 800*	62.4	77.0	14 200*	66.3	77.9	16 800*										23.0
24.0	57.9	75.6	11 900*	60.6	76.5	13 200*	64.6	77.4	15 600*										24.0
25.0	56.0	75.0	11 100*	58.8	75.8	12 300*	62.8	76.9	14 500*	66.7	77.6	17 100*							25.0
26.0	54.0	74.2	10 400*	56.9	75.2	11 500*	61.0	76.3	13 500*	64.9	77.1	15 800*							26.0
27.0	52.0	73.4	9 600*	55.0	74.5	10 800*	59.2	75.7	12 600*	63.2	76.6	14 700*							27.0
28.0	50.0	72.6	8 900*	53.0	73.7	10 100*	57.3	75.1	11 700*	61.4	76.1	13 700*							28.0
29.0	47.9	71.7	8 200*	51.0	72.9	9 300*	55.4	74.4	11 000*	59.6	75.5	12 700*							29.0
30.0	45.7	70.7	7 600*	48.9	72.0	8 600*	53.4	73.7	10 300*	57.7	74.9	11 900*							30.0
31.0	43.4	69.7	7 100*	46.7	71.1	8 000*	51.4	72.9	9 700*	55.8	74.2	11 200*							31.0
32.0	41.0	68.5	6 600*	44.5	70.1	7 500*	49.4	72.0	8 900*	53.8	73.4	10 500*	60.7	75.0	13 300*				32.0
33.0	38.5	67.3	6 100*	42.2	69.0	7 000*	47.2	71.1	8 300*	51.8	72.7	9 800*	58.9	74.4	12 500*				33.0
34.0	35.8	65.9	5 700*	39.7	67.8	6 500*	45.0	70.1	7 800*	49.8	71.8	9 200*	57.0	73.7	11 600*				34.0
35.0	33.0	64.4	5 300*	37.1	66.5	6 000*	42.7	69.0	7 200*	47.7	70.9	8 600*	55.1	73.0	10 900*				35.0
36.0	29.8	62.7	5 000*	34.4	65.1	5 600*	40.3	67.8	6 700*	45.5	69.9	8 000*	53.1	72.3	10 200				36.0
37.0	26.4	60.7	4 600*	31.4	63.4	5 200*	37.7	66.5	6 200*	43.2	68.9	7 400*	51.1	71.5	9 600				37.0
38.0	22.4	58.4	4 300*	28.1	61.6	4 800*	35.0	65.1	5 800*	40.8	67.7	6 900*	49.0	70.6	8 900				38.0
39.0	17.6	55.5	3 300*	24.4	59.5	4 500*	32.1	63.6	5 400*	38.2	66.4	6 500*	46.8	69.7	8 200	54.1	71.5	7 400	39.0
40.0				20.1	56.9	4 000*	28.9	61.8	5 100*	35.6	65.1	6 000*	44.6	68.7	7 600	52.2	70.7	6 800	40.0
42.0							21.1	57.3	4 400*	29.6	61.8	5 200*	39.8	66.4	6 500	48.0	69.0	5 700	42.0
44.0										22.1	57.5	4 500*	34.5	63.6	5 400	43.5	67.0	4 700	44.0
46.0													28.3	60.2	4 400	38.6	64.6	3 800	46.0
48.0													20.3	55.6	3 600	33.1	61.7	2 900	48.0
50.0																26.6	58.1	2 100	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

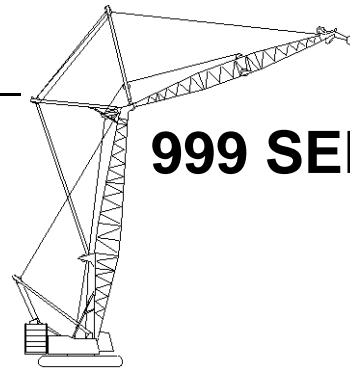
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 42.7m (140 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	74.5	83.0	22 700*																15.2
16.0	73.3	82.8	21 200*																16.0
17.0	71.8	82.4	19 400*																17.0
18.0	70.3	82.1	17 800*																18.0
19.0	68.7	81.7	16 400*	71.0	82.2	18 600*													19.0
20.0	67.1	81.3	15 100*	69.5	81.8	17 100*													20.0
21.0	65.5	80.8	14 000*	67.9	81.4	15 800*													21.0
22.0	63.9	80.3	13 000*	66.3	80.9	14 600*	69.8	81.6	17 500*										22.0
23.0	62.3	79.8	12 100*	64.7	80.5	13 500*	68.3	81.2	16 100*										23.0
24.0	60.6	79.2	11 200*	63.1	79.9	12 500*	66.7	80.8	14 800*										24.0
25.0	58.9	78.6	10 400*	61.4	79.4	11 600*	65.1	80.3	13 800*										25.0
26.0	57.2	78.0	9 700*	59.8	78.8	10 800*	63.5	79.8	12 700*	67.0	80.5	15 100*							26.0
27.0	55.4	77.3	9 100*	58.0	78.2	10 100*	61.8	79.3	11 900*	65.4	80.0	14 000*							27.0
28.0	53.6	76.5	8 500*	56.3	77.5	9 400*	60.1	78.7	11 100*	63.8	79.5	13 000*							28.0
29.0	51.8	75.7	7 900*	54.5	76.8	8 800*	58.4	78.1	10 300*	62.1	79.0	12 100*							29.0
30.0	49.9	74.9	7 400*	52.7	76.0	8 200*	56.7	77.4	9 600*	60.5	78.4	11 200*							30.0
31.0	47.9	74.0	6 900*	50.8	75.2	7 700*	54.9	76.7	9 000*	58.8	77.8	10 400*							31.0
32.0	45.9	73.0	6 500*	48.9	74.3	7 200*	53.1	76.0	8 300*	57.0	77.2	9 800*							32.0
33.0	43.8	72.0	6 100*	46.9	73.4	6 700*	51.2	75.2	7 800*	55.3	76.5	9 100*							33.0
34.0	41.7	70.9	5 600*	44.9	72.4	6 300*	49.3	74.3	7 300*	53.5	75.8	8 500*	59.8	77.4	10 900*				34.0
35.0	39.4	69.7	5 200*	42.7	71.3	5 900*	47.4	73.4	6 800*	51.6	75.0	8 000*	58.1	76.7	10 200*				35.0
36.0	37.0	68.4	4 800*	40.5	70.2	5 500*	45.3	72.4	6 400*	49.7	74.1	7 400*	56.4	76.1	9 500*				36.0
37.0	34.4	66.9	4 400*	38.2	68.9	5 100*	43.2	71.3	6 000*	47.8	73.2	7 000*	54.6	75.4	8 900*				37.0
38.0	31.7	65.3	4 100*	35.7	67.5	4 700*	41.0	70.2	5 600*	45.7	72.2	6 500*	52.8	74.6	8 300*				38.0
39.0	28.8	63.5	3 700*	33.1	66.0	4 300*	38.7	68.9	5 200*	43.6	71.2	6 100*	50.9	73.8	7 800*				39.0
40.0	25.5	61.5	3 400*	30.2	64.3	4 000*	36.3	67.6	4 900*	41.5	70.1	5 700*	49.0	72.9	7 300*	55.6	74.6	6 800	40.0
42.0				23.6	60.2	3 400*	30.9	64.5	4 200*	36.8	67.5	5 000*	45.0	71.0	6 400*	51.9	73.0	5 700	42.0
44.0							24.4	60.5	3 500*	31.5	64.5	4 400*	40.6	68.7	5 500	48.1	71.3	4 700	44.0
46.0										25.2	60.6	3 700*	35.8	66.1	4 500	44.0	69.3	3 800	46.0
48.0													30.4	62.9	3 700	39.5	67.0	3 000	48.0
50.0													23.8	58.9	2 900	34.6	64.3	2 200	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 45.7m (150 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

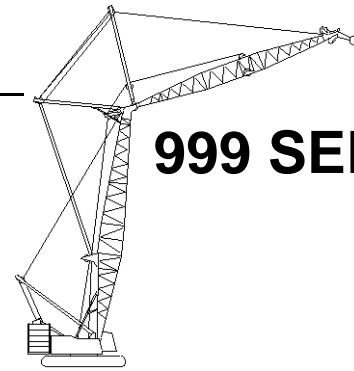
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
12.2	51.5	57.2	14 800*																12.2
13.0	46.1	56.4	13 200*																13.0
14.0	38.6	55.2	11 300*	50.1	56.9	14 500*													14.0
15.0	29.4	53.5	9 900*	43.2	55.8	12 500*													15.0
16.0				35.1	54.5	10 800*	52.5	57.0	15 700*b										16.0
17.0							45.9	56.0	13 200*										17.0
18.0							38.4	54.8	11 400*										18.0
19.0							29.1	53.1	10 000*	48.4	56.0	14 300*							19.0
20.0										41.3	54.9	12 100*							20.0
21.0										32.8	53.4	10 500*							21.0
22.0													54.0	55.9	16 900*b				22.0
23.0													47.6	54.9	14 000*				23.0
24.0													40.3	53.8	12 100*				24.0
25.0													31.6	52.2	10 500*				25.0
26.0																52.7	54.4	16 200*	26.0
27.0																46.1	53.5	13 900*	27.0
28.0																38.6	52.2	11 800*	28.0

### 45.7m (150 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
10.7	60.5	58.3	16 200*b																10.7
11.0	58.6	58.1	15 400*b																11.0
12.0	52.7	57.4	12 800*																12.0
13.0	46.1	56.4	10 800*	56.3	57.7	14 500*													13.0
14.0	38.6	55.2	9 300*	50.1	56.9	11 900*													14.0
15.0	29.4	53.5	8 100*	43.2	55.8	10 200*													15.0
16.0				35.1	54.5	8 800*	52.5	57.0	13 100*										16.0
17.0							45.9	56.0	10 900*	60.5	57.6	17 000*b							17.0
18.0							38.4	54.8	9 400*	54.7	56.9	14 100*							18.0
19.0							29.1	53.1	8 200*	48.4	56.0	11 700*							19.0
20.0										41.3	54.9	10 000*							20.0
21.0										32.8	53.4	8 700*							21.0
22.0													54.0	55.9	14 000*				22.0
23.0													47.6	54.9	11 600*				23.0
24.0													40.3	53.8	9 900*				24.0
25.0													31.6	52.2	8 600*				25.0
26.0																52.7	54.4	13 500*	26.0
27.0																46.1	53.5	11 500*	27.0
28.0																38.6	52.2	9 800*	28.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

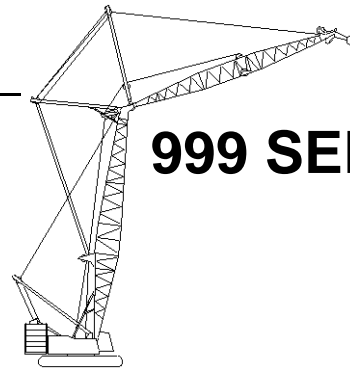
## 45.7m (150 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	60.5	58.3	14 400*																10.7
11.0	58.6	58.1	13 600*																11.0
12.0	52.7	57.4	11 200*																12.0
13.0	46.1	56.4	9 400*	56.3	57.7	12 700*													13.0
14.0	38.6	55.2	8 100*	50.1	56.9	10 500*													14.0
15.0	29.4	53.5	7 000*	43.2	55.8	8 900*													15.0
16.0				35.1	54.5	7 700*	52.5	57.0	11 500*										16.0
17.0							45.9	56.0	9 600*	60.5	57.6	15 000*							17.0
18.0							38.4	54.8	8 200*	54.7	56.9	12 300*							18.0
19.0							29.1	53.1	7 100*	48.4	56.0	10 200*							19.0
20.0										41.3	54.9	8 800*							20.0
21.0										32.8	53.4	7 500*							21.0
22.0													54.0	55.9	12 300*				22.0
23.0													47.6	54.9	10 200*				23.0
24.0													40.3	53.8	8 700*				24.0
25.0													31.6	52.2	7 500*				25.0
26.0																52.7	54.4	11 900*	26.0
27.0																46.1	53.5	10 100*	27.0
28.0																38.6	52.2	8 500*	28.0

REFERENCE ONLY!



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

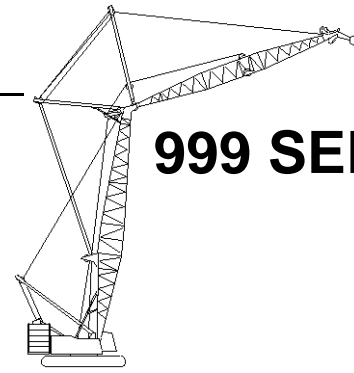
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 45.7m (150 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	67.0	61.8	20 900*																10.7
11.0	65.6	61.7	19 800*																11.0
12.0	61.3	61.1	16 400*																12.0
13.0	56.7	60.4	13 700*	63.9	61.3	18 600*													13.0
14.0	51.9	59.7	11 900*	59.4	60.7	15 300*													14.0
15.0	46.7	58.7	10 400*	54.8	60.0	13 000*													15.0
16.0	41.0	57.6	9 100*	49.9	59.2	11 300*	61.1	60.7	16 700*										16.0
17.0	34.4	56.2	8 100*	44.5	58.2	9 900*	56.6	60.0	14 000*	67.0	61.1	21 900*							17.0
18.0	26.4	54.3	7 200*	38.5	56.9	8 700*	51.8	59.3	12 000*	62.7	60.5	18 000*							18.0
19.0				31.4	55.4	7 700*	46.6	58.3	10 500*	58.3	59.9	14 900*							19.0
20.0							40.8	57.2	9 200*	53.6	59.2	12 800*							20.0
21.0							34.2	55.8	8 200*	48.5	58.3	11 100*							21.0
22.0							26.1	53.8	7 200*	43.0	57.2	9 700*							22.0
23.0										36.8	55.9	8 600*	57.7	58.9	15 000*				23.0
24.0										29.3	54.2	7 600*	53.0	58.2	12 900*				24.0
25.0													47.9	57.3	11 100*				25.0
26.0													42.3	56.2	9 700*				26.0
27.0													35.9	54.8	8 600*				27.0
28.0													28.3	53.1	7 600*				28.0
29.0																51.9	56.7	12 600*	28.0
30.0																46.7	55.8	10 900*	29.0
31.0																41.0	54.6	9 600*	30.0
32.0																34.4	53.2	8 500*	31.0
																26.4	51.3	7 500*	32.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

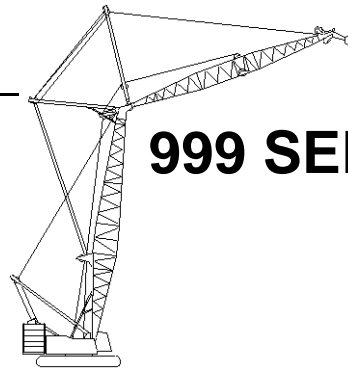
## 45.7m (150 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	68.7	59.2	19 000*b																9.1
10.0	64.2	58.7	15 800*																10.0
11.0	58.6	58.1	12 500*	67.4	58.9	18 200*b													11.0
12.0	52.7	57.4	10 400*	62.0	58.4	14 400*													12.0
13.0	46.1	56.4	8 900*	56.3	57.7	11 600*													13.0
14.0	38.6	55.2	7 700*	50.1	56.9	9 800*	64.0	58.4	15 800*										14.0
15.0	29.4	53.5	6 700*	43.2	55.8	8 400*	58.5	57.7	12 800*										15.0
16.0				35.1	54.5	7 300*	52.5	57.0	10 500*										16.0
17.0							45.9	56.0	8 900*	60.5	57.6	13 800*							17.0
18.0							38.4	54.8	7 700*	54.7	56.9	11 400*							18.0
19.0							29.1	53.1	6 700*	48.4	56.0	9 500*							19.0
20.0										41.3	54.9	8 200*							20.0
21.0										32.8	53.4	7 100*							21.0
22.0													54.0	55.9	11 400*				22.0
23.0													47.6	54.9	9 500*				23.0
24.0													40.3	53.8	8 100*				24.0
25.0													31.6	52.2	7 100*				25.0
26.0																52.7	54.4	10 900*	26.0
27.0																46.1	53.5	9 300*	27.0
28.0																38.6	52.2	7 900*	28.0

PREFERRED ONLY!



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

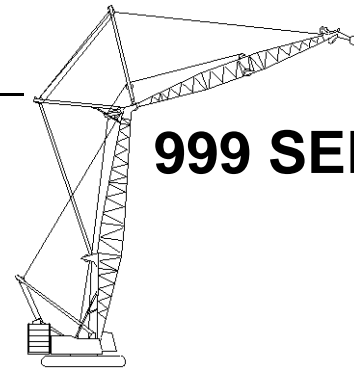
### 45.7m (150 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
9.1	73.2	62.4	26 600*b																9.1
10.0	69.8	62.1	22 100*																10.0
11.0	65.6	61.7	17 400*	72.2	62.2	25 000*b													11.0
12.0	61.3	61.1	14 400*	68.1	61.8	20 000*													12.0
13.0	56.7	60.4	12 300*	63.9	61.3	16 200*													13.0
14.0	51.9	59.7	10 600*	59.4	60.7	13 600*	69.7	61.7	22 100*										14.0
15.0	46.7	58.7	9 200*	54.8	60.0	11 600*	65.5	61.3	17 800*										15.0
16.0	41.0	57.6	8 100*	49.9	59.2	10 100*	61.1	60.7	14 500*										16.0
17.0	34.4	56.2	7 200*	44.5	58.2	8 800*	56.6	60.0	12 400*	67.0	61.1	19 300*							17.0
18.0	26.4	54.3	6 400*	38.5	56.9	7 800*	51.8	59.3	10 700*	62.7	60.5	15 900*							18.0
19.0				31.4	55.4	6 900*	46.6	58.3	9 300*	58.3	59.9	13 200*							19.0
20.0							40.8	57.2	8 200*	53.6	59.2	11 400*							20.0
21.0							34.2	55.8	7 200*	48.5	58.3	9 800*							21.0
22.0							26.1	53.8	6 500*	43.0	57.2	8 600*							22.0
23.0										36.8	55.9	7 600*	57.7	58.9	13 200*				23.0
24.0										29.3	54.2	6 800*	53.0	58.2	11 400*				24.0
25.0													47.9	57.3	9 800*				25.0
26.0													42.3	56.2	8 600*				26.0
27.0													35.9	54.8	7 600*				27.0
28.0													28.3	53.1	6 700*				28.0
29.0																51.9	56.7	11 100*	29.0
30.0																41.0	54.6	8 400*	30.0
31.0																34.4	53.2	7 500*	31.0
32.0																26.4	51.3	6 700*	32.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

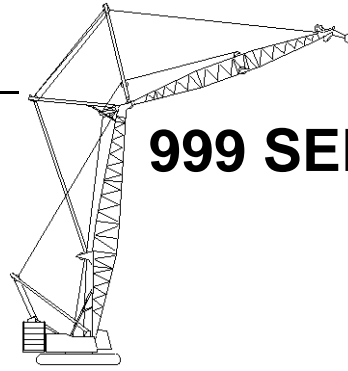
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 45.7m (150 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	71.1	65.1	23 700*																10.7
11.0	70.0	65.0	22 400*																11.0
12.0	66.5	64.6	18 600*																12.0
13.0	63.0	64.0	15 600*	68.6	64.7	21 000*													13.0
14.0	59.3	63.4	13 500*	65.1	64.3	17 300*													14.0
15.0	55.5	62.8	11 800*	61.5	63.7	14 800*													15.0
16.0	51.4	62.0	10 400*	57.7	63.1	12 800*	66.4	64.2	18 900*										16.0
17.0	47.1	61.0	9 300*	53.8	62.3	11 300*	62.9	63.7	15 800*										17.0
18.0	42.5	59.9	8 300*	49.7	61.5	10 000*	59.2	63.1	13 600*										18.0
19.0	37.3	58.7	7 400*	45.3	60.5	8 900*	55.3	62.4	11 900*	64.2	63.5	17 100*							19.0
20.0	31.5	57.1	6 700*	40.5	59.3	7 900*	51.3	61.6	10 500*	60.5	62.9	14 500*							20.0
21.0	24.2	55.0	6 000*	35.1	58.0	7 100*	47.0	60.6	9 300*	56.8	62.2	12 600*							21.0
22.0				28.7	56.2	6 400*	42.3	59.5	8 300*	52.8	61.5	11 100*							22.0
23.0							37.2	58.2	7 500*	48.6	60.6	9 800*							23.0
24.0							31.3	56.7	6 700*	44.1	59.6	8 700*							24.0
25.0							24.0	54.6	6 100*	39.1	58.4	7 800*	56.3	61.2	12 600*				25.0
26.0										33.5	56.9	7 000*	52.3	60.5	11 000*				26.0
27.0										26.8	55.0	6 300*	48.1	59.6	9 800*				27.0
28.0													43.5	58.5	8 700*				28.0
29.0													38.5	57.3	7 800*	55.5	59.8	12 300*	29.0
30.0													32.8	55.8	7 000*	51.4	59.0	10 900*	30.0
31.0													25.9	53.8	6 400*	47.1	58.1	9 600*	31.0
32.0													16.3	50.9	5 800*	42.5	57.0	8 600*	32.0
33.0																37.4	55.7	7 700*	33.0
34.0																31.5	54.1	7 000*	34.0
35.0																24.2	52.1	6 300*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

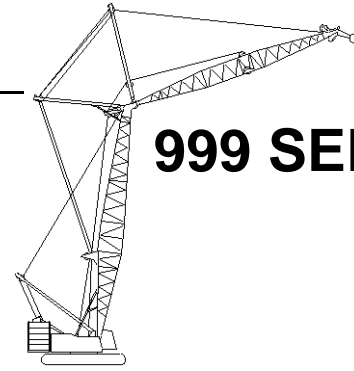
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 45.7m (150 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	73.9	68.4	26 700*																10.7
11.0	73.0	68.2	26 000*																11.0
12.0	70.1	67.9	23 800*																12.0
13.0	67.1	67.5	21 000*																13.0
14.0	64.1	67.0	17 700*	68.9	67.6	22 800*													14.0
15.0	61.0	66.4	15 500*	65.9	67.2	19 600*													15.0
16.0	57.9	65.8	13 700*	62.9	66.6	16 800*													16.0
17.0	54.5	65.1	12 200*	59.8	66.1	14 800*	67.1	67.1	20 800*										17.0
18.0	51.1	64.3	10 900*	56.5	65.4	13 100*	64.1	66.6	18 000*										18.0
19.0	47.4	63.3	9 800*	53.1	64.6	11 700*	61.0	66.0	15 600*										19.0
20.0	43.5	62.3	8 900*	49.6	63.8	10 500*	57.8	65.4	13 800*	65.2	66.4	19 100*							20.0
21.0	39.3	61.1	8 100*	45.8	62.8	9 500*	54.4	64.7	12 300*	62.1	65.8	16 700*							21.0
22.0	34.6	59.7	7 300*	41.8	61.7	8 600*	51.0	63.9	11 000*	58.9	65.2	14 600*							22.0
23.0	29.2	57.9	6 700*	37.4	60.4	7 800*	47.3	62.9	9 900*	55.7	64.5	12 900*							23.0
24.0	22.6	55.7	6 100*	32.5	58.9	7 100*	43.4	61.9	9 000*	52.2	63.8	11 600*							24.0
25.0				26.7	57.0	6 500*	39.1	60.7	8 200*	48.7	62.9	10 400*							25.0
26.0							34.4	59.2	7 400*	44.8	61.9	9 400*	58.6	64.2	14 500*				26.0
27.0							29.0	57.5	6 700*	40.7	60.7	8 500*	55.3	63.5	13 000*				27.0
28.0							22.4	55.3	6 200*	36.2	59.4	7 700*	51.8	62.7	11 500*				28.0
29.0										31.1	57.8	7 000*	48.2	61.9	10 400*				29.0
30.0										25.0	55.8	6 400*	44.4	60.8	9 400*				30.0
31.0													40.2	59.7	8 500*	54.5	62.1	12 800*	31.0
32.0													35.6	58.3	7 800*	51.1	61.3	11 400*	32.0
33.0													30.4	56.7	7 100*	47.4	60.4	10 200*	33.0
34.0													24.2	54.6	6 400*	43.5	59.3	9 300*	34.0
35.0													15.5	51.5	5 900*	39.3	58.1	8 400*	35.0
36.0																34.6	56.7	7 700*	36.0
37.0																29.2	55.0	7 000*	37.0
38.0																22.6	52.8	6 400*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 45.7m (150 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

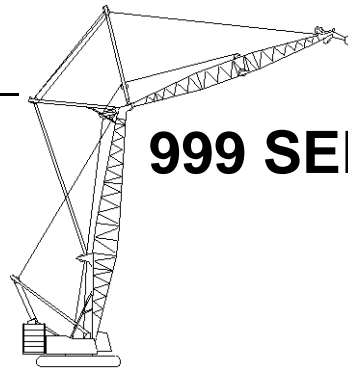
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	76.0	71.5	26 700*																10.7
11.0	75.2	71.4	26 700*																11.0
12.0	72.7	71.1	26 700*																12.0
13.0	70.2	70.8	24 400*																13.0
14.0	67.6	70.3	21 600*	71.7	70.9	26 000*													14.0
15.0	65.0	69.9	18 900*	69.1	70.5	23 300*													15.0
16.0	62.3	69.3	16 700*	66.6	70.1	20 700*													16.0
17.0	59.6	68.8	14 900*	63.9	69.6	18 100*	70.1	70.4	25 100*										17.0
18.0	56.8	68.1	13 400*	61.2	69.0	16 000*	67.5	70.0	21 800*										18.0
19.0	53.9	67.4	12 100*	58.5	68.4	14 400*	64.9	69.5	19 100*										19.0
20.0	50.8	66.5	11 000*	55.6	67.7	13 000*	62.3	69.0	16 900*										20.0
21.0	47.6	65.6	10 000*	52.6	66.9	11 800*	59.5	68.4	15 100*										21.0
22.0	44.2	64.6	9 200*	49.5	66.1	10 700*	56.7	67.7	13 600*	63.2	68.8	17 900*							22.0
23.0	40.6	63.5	8 400*	46.3	65.1	9 800*	53.8	67.0	12 300*	60.5	68.2	15 800*							23.0
24.0	36.7	62.1	7 700*	42.8	64.1	8 900*	50.7	66.2	11 200*	57.7	67.6	14 200*							24.0
25.0	32.4	60.6	7 100*	39.1	62.8	8 200*	47.5	65.2	10 200*	54.8	66.9	12 900*							25.0
26.0	27.4	58.8	6 600*	35.0	61.4	7 500*	44.1	64.2	9 300*	51.8	66.1	11 600*							26.0
27.0	21.3	56.4	6 100*	30.5	59.8	6 900*	40.5	63.1	8 500*	48.7	65.2	10 600*							27.0
28.0				25.1	57.8	6 400*	36.6	61.7	7 800*	45.4	64.2	9 700*	57.4	66.6	14 200*				28.0
29.0							32.3	60.2	7 200*	41.9	63.1	8 900*	54.5	65.8	12 800*				29.0
30.0							27.3	58.3	6 700*	38.1	61.8	8 200*	51.5	65.0	11 600*				30.0
31.0							21.1	55.9	6 100*	33.9	60.4	7 500*	48.3	64.2	10 600*				31.0
32.0							12.0	52.2	5 700*	29.2	58.7	6 900*	45.0	63.2	9 700*	56.8	65.2	14 000*	32.0
33.0										23.5	56.5	6 400*	41.4	62.0	8 900*	53.9	64.4	12 700*	33.0
34.0													37.6	60.8	8 200*	50.8	63.6	11 500*	34.0
35.0													33.4	59.3	7 600*	47.6	62.7	10 500*	35.0
36.0													28.6	57.5	7 000*	44.2	61.7	9 600*	36.0
37.0													22.8	55.3	6 400*	40.6	60.5	8 800*	37.0
38.0													14.8	52.1	5 900*	36.7	59.2	8 100*	38.0
39.0																32.4	57.7	7 500*	39.0
40.0																27.4	55.8	6 900*	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



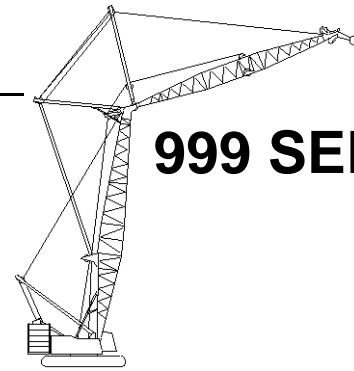
## 999 SERIES 3

### 45.7m (150 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.3	74.3	26 700*																12.2
13.0	72.5	74.0	26 700*																13.0
14.0	70.3	73.6	26 000*																14.0
15.0	68.0	73.2	23 700*																15.0
16.0	65.7	72.8	21 300*	69.3	73.4	25 100*													16.0
17.0	63.3	72.3	19 200*	67.1	72.9	23 000*													17.0
18.0	60.9	71.7	17 400*	64.7	72.5	20 600*													18.0
19.0	58.5	71.1	15 800*	62.4	71.9	18 500*	67.9	72.8	24 300*										19.0
20.0	55.9	70.4	14 300*	59.9	71.4	16 800*	65.6	72.4	21 600*										20.0
21.0	53.3	69.7	13 100*	57.4	70.7	15 300*	63.3	71.9	19 500*										21.0
22.0	50.6	68.8	12 000*	54.9	70.0	13 900*	60.9	71.3	17 600*	66.5	72.2	22 900*							22.0
23.0	47.8	67.9	11 000*	52.2	69.2	12 700*	58.4	70.7	16 000*	64.1	71.7	20 400*							23.0
24.0	44.8	66.9	10 100*	49.5	68.4	11 700*	55.9	70.0	14 500*	61.7	71.1	18 400*							24.0
25.0	41.7	65.8	9 400*	46.6	67.4	10 700*	53.2	69.3	13 300*	59.3	70.5	16 700*							25.0
26.0	38.3	64.6	8 600*	43.5	66.4	9 900*	50.5	68.5	12 200*	56.8	69.9	15 200*							26.0
27.0	34.7	63.1	8 000*	40.3	65.2	9 100*	47.7	67.5	11 200*	54.2	69.2	13 900*							27.0
28.0	30.6	61.5	7 400*	36.9	63.9	8 500*	44.7	66.5	10 300*	51.5	68.4	12 700*	61.5	70.2	18 400*				28.0
29.0	26.0	59.5	6 900*	33.1	62.4	7 900*	41.6	65.4	9 500*	48.7	67.5	11 700*	59.0	69.5	16 600*				29.0
30.0	20.3	57.0	6 500*	28.8	60.6	7 300*	38.2	64.2	8 800*	45.8	66.5	10 700*	56.5	68.9	15 100*				30.0
31.0				23.8	58.5	6 800*	34.5	62.7	8 200*	42.7	65.4	9 900*	53.9	68.2	13 900*				31.0
32.0				17.5	55.6	6 300*	30.5	61.1	7 600*	39.4	64.2	9 200*	51.2	67.3	12 700*				32.0
33.0							25.8	59.1	7 100*	35.9	62.9	8 500*	48.4	66.5	11 700*				33.0
34.0							20.1	56.6	6 600*	32.0	61.3	7 900*	45.5	65.5	10 800*	55.9	67.5	13 000	34.0
35.0							11.8	52.7	6 100*	27.6	59.5	7 300*	42.3	64.4	10 000*	53.3	66.7	12 200	35.0
36.0										22.4	57.2	6 800*	39.0	63.2	9 200*	50.6	65.9	11 500	36.0
37.0													35.5	61.8	8 600*	47.8	65.0	10 800	37.0
38.0													31.5	60.2	7 900*	44.8	64.0	10 200	38.0
39.0													27.0	58.3	7 400*	41.7	62.9	9 600	39.0
40.0													21.7	56.0	6 900*	38.3	61.6	9 000	40.0
42.0																30.6	58.6	7 900	42.0
44.0																20.3	54.1	6 900	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

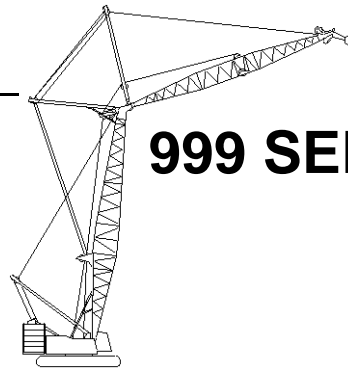
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 45.7m (150 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	76.0	71.5	26 700*																10.7
11.0	75.2	71.4	26 600*																11.0
12.0	72.7	71.1	26 100*																12.0
13.0	70.2	70.8	23 700*																13.0
14.0	67.6	70.3	19 900*	71.7	70.9	25 400*													14.0
15.0	65.0	69.9	17 400*	69.1	70.5	21 800*													15.0
16.0	62.3	69.3	15 400*	66.6	70.1	18 900*													16.0
17.0	59.6	68.8	13 800*	63.9	69.6	16 700*	70.1	70.4	23 200*										17.0
18.0	56.8	68.1	12 400*	61.2	69.0	14 800*	67.5	70.0	20 200*										18.0
19.0	53.9	67.4	11 200*	58.5	68.4	13 300*	64.9	69.5	17 600*										19.0
20.0	50.8	66.5	10 100*	55.6	67.7	12 000*	62.3	69.0	15 600*										20.0
21.0	47.6	65.6	9 200*	52.6	66.9	10 800*	59.5	68.4	13 900*										21.0
22.0	44.2	64.6	8 400*	49.5	66.1	9 800*	56.7	67.7	12 600*	63.2	68.8	16 500*							22.0
23.0	40.6	63.5	7 700*	46.3	65.1	9 000*	53.8	67.0	11 400*	60.5	68.2	14 600*							23.0
24.0	36.7	62.1	7 100*	42.8	64.1	8 200*	50.7	66.2	10 300*	57.7	67.6	13 100*							24.0
25.0	32.4	60.6	6 500*	39.1	62.8	7 500*	47.5	65.2	9 400*	54.8	66.9	11 900*							25.0
26.0	27.4	58.8	6 000*	35.0	61.4	6 900*	44.1	64.2	8 600*	51.8	66.1	10 700*							26.0
27.0	21.3	56.4	5 600*	30.5	59.8	6 400*	40.5	63.1	7 900*	48.7	65.2	9 800*							27.0
28.0				25.1	57.8	5 800*	36.6	61.7	7 200*	45.4	64.2	9 000*	57.4	66.6	13 200*				28.0
29.0							32.3	60.2	6 600*	41.9	63.1	8 200*	54.5	65.8	11 900*				29.0
30.0							27.3	58.3	6 100*	38.1	61.8	7 500*	51.5	65.0	10 800*				30.0
31.0							21.1	55.9	5 700*	33.9	60.4	6 900*	48.3	64.2	9 800*				31.0
32.0							12.0	52.2	5 300*	29.2	58.7	6 300*	45.0	63.2	9 000*	56.8	65.2	12 900*	32.0
33.0										23.5	56.5	5 900*	41.4	62.0	8 200*	53.9	64.4	11 800*	33.0
34.0													37.6	60.8	7 500*	50.8	63.6	10 700*	34.0
35.0													33.4	59.3	7 000*	47.6	62.7	9 700*	35.0
36.0													28.6	57.5	6 400*	44.2	61.7	8 900*	36.0
37.0													22.8	55.3	5 900*	40.6	60.5	8 200*	37.0
38.0													14.8	52.1	5 500*	36.7	59.2	7 500*	38.0
39.0																32.4	57.7	6 900*	39.0
40.0																27.4	55.8	6 400*	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

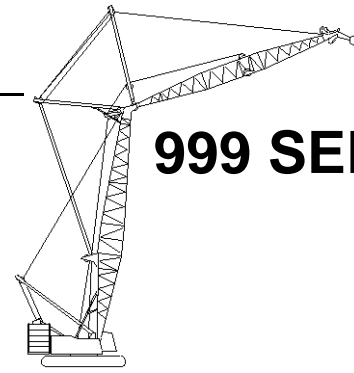
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 45.7m (150 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.3	74.3	26 700*																12.2
13.0	72.5	74.0	26 500*																13.0
14.0	70.3	73.6	25 700*																14.0
15.0	68.0	73.2	22 600*																15.0
16.0	65.7	72.8	19 700*	69.3	73.4	24 200*													16.0
17.0	63.3	72.3	17 700*	67.1	72.9	21 300*													17.0
18.0	60.9	71.7	15 900*	64.7	72.5	18 900*													18.0
19.0	58.5	71.1	14 400*	62.4	71.9	17 000*	67.9	72.8	22 500*										19.0
20.0	55.9	70.4	13 100*	59.9	71.4	15 400*	65.6	72.4	19 900*										20.0
21.0	53.3	69.7	11 900*	57.4	70.7	13 900*	63.3	71.9	17 900*										21.0
22.0	50.6	68.8	10 900*	54.9	70.0	12 700*	60.9	71.3	16 100*	66.5	72.2	21 000*							22.0
23.0	47.8	67.9	10 000*	52.2	69.2	11 600*	58.4	70.7	14 600*	64.1	71.7	18 700*							23.0
24.0	44.8	66.9	9 200*	49.5	68.4	10 600*	55.9	70.0	13 300*	61.7	71.1	16 800*							24.0
25.0	41.7	65.8	8 500*	46.6	67.4	9 800*	53.2	69.3	12 100*	59.3	70.5	15 200*							25.0
26.0	38.3	64.6	7 900*	43.5	66.4	9 000*	50.5	68.5	11 200*	56.8	69.9	13 900*							26.0
27.0	34.7	63.1	7 300*	40.3	65.2	8 300*	47.7	67.5	10 200*	54.2	69.2	12 700*							27.0
28.0	30.6	61.5	6 700*	36.9	63.9	7 700*	44.7	66.5	9 400*	51.5	68.4	11 600*	61.5	70.2	16 800*				28.0
29.0	26.0	59.5	6 300*	33.1	62.4	7 100*	41.6	65.4	8 700*	48.7	67.5	10 700*	59.0	69.5	15 200*				29.0
30.0	20.3	57.0	5 900*	28.8	60.6	6 600*	38.2	64.2	8 100*	45.8	66.5	9 800*	56.5	68.9	13 900*				30.0
31.0				23.8	58.5	6 100*	34.5	62.7	7 400*	42.7	65.4	9 000*	53.9	68.2	12 700*				31.0
32.0				17.5	55.6	5 700*	30.5	61.1	6 900*	39.4	64.2	8 400*	51.2	67.3	11 700*				32.0
33.0							25.8	59.1	6 400*	35.9	62.9	7 800*	48.4	66.5	10 700*				33.0
34.0							20.1	56.6	6 000*	32.0	61.3	7 200*	45.5	65.5	9 900*	55.9	67.5	11 600	34.0
35.0							11.8	52.7	5 600*	27.6	59.5	6 700*	42.3	64.4	9 100*	53.3	66.7	10 800	35.0
36.0										22.4	57.2	6 200*	39.0	63.2	8 400*	50.6	65.9	10 100	36.0
37.0													35.5	61.8	7 800*	47.8	65.0	9 400	37.0
38.0													31.5	60.2	7 300*	44.8	64.0	8 700	38.0
39.0													27.0	58.3	6 700*	41.7	62.9	8 100	39.0
40.0													21.7	56.0	6 300*	38.3	61.6	7 500	40.0
42.0																30.6	58.6	6 300	42.0
44.0																20.3	54.1	5 300	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

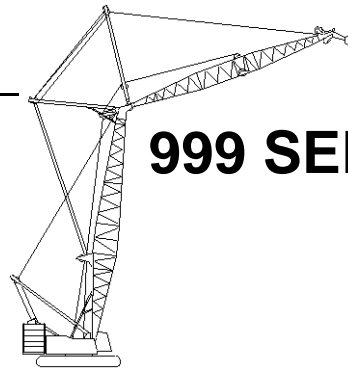
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 45.7m (150 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	76.0	71.5	26 700*																10.7
11.0	75.2	71.4	26 100*																11.0
12.0	72.7	71.1	24 400*																12.0
13.0	70.2	70.8	21 700*																13.0
14.0	67.6	70.3	18 400*	71.7	70.9	23 500*													14.0
15.0	65.0	69.9	16 100*	69.1	70.5	20 200*													15.0
16.0	62.3	69.3	14 300*	66.6	70.1	17 500*													16.0
17.0	59.6	68.8	12 800*	63.9	69.6	15 500*	70.1	70.4	21 500*										17.0
18.0	56.8	68.1	11 400*	61.2	69.0	13 700*	67.5	70.0	18 700*										18.0
19.0	53.9	67.4	10 300*	58.5	68.4	12 300*	64.9	69.5	16 300*										19.0
20.0	50.8	66.5	9 300*	55.6	67.7	11 000*	62.3	69.0	14 500*										20.0
21.0	47.6	65.6	8 500*	52.6	66.9	10 000*	59.5	68.4	12 900*										21.0
22.0	44.2	64.6	7 800*	49.5	66.1	9 100*	56.7	67.7	11 600*	63.2	68.8	15 300*							22.0
23.0	40.6	63.5	7 100*	46.3	65.1	8 200*	53.8	67.0	10 500*	60.5	68.2	13 600*							23.0
24.0	36.7	62.1	6 500*	42.8	64.1	7 500*	50.7	66.2	9 500*	57.7	67.6	12 200*							24.0
25.0	32.4	60.6	6 000*	39.1	62.8	6 900*	47.5	65.2	8 600*	54.8	66.9	11 000*							25.0
26.0	27.4	58.8	5 500*	35.0	61.4	6 300*	44.1	64.2	7 900*	51.8	66.1	9 900*							26.0
27.0	21.3	56.4	5 100*	30.5	59.8	5 800*	40.5	63.1	7 200*	48.7	65.2	9 000*							27.0
28.0				25.1	57.8	5 400*	36.6	61.7	6 600*	45.4	64.2	8 300*	57.4	66.6	12 200*				28.0
29.0							32.3	60.2	6 100*	41.9	63.1	7 500*	54.5	65.8	11 000*				29.0
30.0							27.3	58.3	5 600*	38.1	61.8	6 900*	51.5	65.0	10 000*				30.0
31.0							21.1	55.9	5 200*	33.9	60.4	6 300*	48.3	64.2	9 100*				31.0
32.0							12.0	52.2	4 800*	29.2	58.7	5 800*	45.0	63.2	8 300*				32.0
33.0										23.5	56.5	5 400*	41.4	62.0	7 600*				33.0
34.0													37.6	60.8	7 000*	50.8	63.6	9 900*	34.0
35.0													33.4	59.3	6 400*	47.6	62.7	9 000*	35.0
36.0													28.6	57.5	5 900*	44.2	61.7	8 200*	36.0
37.0													22.8	55.3	5 400*	40.6	60.5	7 500*	37.0
38.0													14.8	52.1	5 000*	36.7	59.2	6 900*	38.0
39.0																32.4	57.7	6 300	39.0
40.0																27.4	55.8	5 800	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

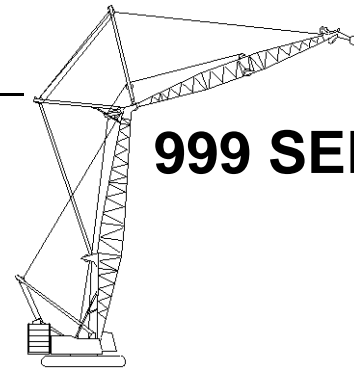
### 45.7m (150 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.3	74.3	26 700*																12.2
13.0	72.5	74.0	25 400*																13.0
14.0	70.3	73.6	23 500*																14.0
15.0	68.0	73.2	20 700*																15.0
16.0	65.7	72.8	18 100*	69.3	73.4	22 300*													16.0
17.0	63.3	72.3	16 200*	67.1	72.9	19 600*													17.0
18.0	60.9	71.7	14 600*	64.7	72.5	17 400*													18.0
19.0	58.5	71.1	13 200*	62.4	71.9	15 700*	67.9	72.8	20 800*										19.0
20.0	55.9	70.4	12 000*	59.9	71.4	14 100*	65.6	72.4	18 400*										20.0
21.0	53.3	69.7	10 900*	57.4	70.7	12 800*	63.3	71.9	16 400*										21.0
22.0	50.6	68.8	10 000*	54.9	70.0	11 700*	60.9	71.3	14 800*	66.5	72.2	19 300*							22.0
23.0	47.8	67.9	9 200*	52.2	69.2	10 700*	58.4	70.7	13 400*	64.1	71.7	17 200*							23.0
24.0	44.8	66.9	8 400*	49.5	68.4	9 700*	55.9	70.0	12 200*	61.7	71.1	15 500*							24.0
25.0	41.7	65.8	7 800*	46.6	67.4	8 900*	53.2	69.3	11 100*	59.3	70.5	14 000*							25.0
26.0	38.3	64.6	7 200*	43.5	66.4	8 200*	50.5	68.5	10 200*	56.8	69.9	12 800*							26.0
27.0	34.7	63.1	6 600*	40.3	65.2	7 600*	47.7	67.5	9 400*	54.2	69.2	11 600*							27.0
28.0	30.6	61.5	6 200*	36.9	63.9	7 000*	44.7	66.5	8 600*	51.5	68.4	10 700*	61.5	70.2	15 500*				28.0
29.0	26.0	59.5	5 700*	33.1	62.4	6 500*	41.6	65.4	7 900*	48.7	67.5	9 800*	59.0	69.5	14 000*				29.0
30.0	20.3	57.0	5 300*	28.8	60.6	6 000*	38.2	64.2	7 300*	45.8	66.5	9 000*	56.5	68.9	12 800*				30.0
31.0				23.8	58.5	5 600*	34.5	62.7	6 800*	42.7	65.4	8 300*	53.9	68.2	11 700*				31.0
32.0				17.5	55.6	5 200*	30.5	61.1	6 300*	39.4	64.2	7 700*	51.2	67.3	10 700*				32.0
33.0							25.8	59.1	5 800*	35.9	62.9	7 100*	48.4	66.5	9 800*				33.0
34.0							20.1	56.6	5 400*	32.0	61.3	6 600*	45.5	65.5	9 100*	55.9	67.5	10 400	34.0
35.0							11.8	52.7	5 100*	27.6	59.5	6 100*	42.3	64.4	8 400*	53.3	66.7	9 500	35.0
36.0										22.4	57.2	5 700*	39.0	63.2	7 700*	50.6	65.9	8 800	36.0
37.0													35.5	61.8	7 100*	47.8	65.0	8 000	37.0
38.0													31.5	60.2	6 600*	44.8	64.0	7 400	38.0
39.0													27.0	58.3	6 200*	41.7	62.9	6 700	39.0
40.0													21.7	56.0	5 700*	38.3	61.6	6 100	40.0
42.0																30.6	58.6	4 900	42.0
44.0																20.3	54.1	3 800	44.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

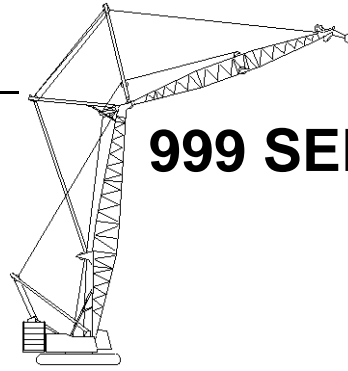
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 45.7m (150 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
12.2	75.9	77.4	26 700*																12.2	
13.0	74.3	77.2	26 700*																13.0	
14.0	72.3	76.9	26 200*																14.0	
15.0	70.3	76.5	23 700*																15.0	
16.0	68.3	76.1	21 100*	71.5	76.6	24 900*													16.0	
17.0	66.2	75.7	19 000*	69.5	76.3	22 500*													17.0	
18.0	64.1	75.2	17 200*	67.4	75.8	20 400*													18.0	
19.0	62.0	74.7	15 600*	65.4	75.4	18 400*													19.0	
20.0	59.8	74.1	14 200*	63.2	74.9	16 600*	68.2	75.7	21 300*										20.0	
21.0	57.6	73.4	12 900*	61.1	74.3	15 100*	66.2	75.3	19 300*										21.0	
22.0	55.3	72.7	11 800*	58.9	73.7	13 800*	64.1	74.8	17 400*										22.0	
23.0	52.9	72.0	10 900*	56.6	73.0	12 600*	61.9	74.3	15 800*	66.9	75.1	20 100*							23.0	
24.0	50.4	71.1	10 000*	54.3	72.3	11 600*	59.7	73.7	14 400*	64.8	74.6	18 200*							24.0	
25.0	47.9	70.2	9 300*	51.9	71.5	10 700*	57.5	73.0	13 200*	62.7	74.1	16 500*							25.0	
26.0	45.2	69.3	8 600*	49.4	70.7	9 900*	55.2	72.3	12 100*	60.5	73.5	15 000*							26.0	
27.0	42.5	68.2	8 000*	46.8	69.7	9 100*	52.8	71.6	11 200*	58.3	72.9	13 700*							27.0	
28.0	39.5	67.0	7 400*	44.1	68.7	8 400*	50.4	70.7	10 300*	56.0	72.2	12 600*							28.0	
29.0	36.4	65.6	6 900*	41.3	67.6	7 800*	47.8	69.8	9 500*	53.7	71.5	11 700*	62.4	73.1	16 400*				29.0	
30.0	32.9	64.1	6 400*	38.2	66.3	7 300*	45.2	68.9	8 800*	51.3	70.7	10 700*	60.3	72.5	15 000*				30.0	
31.0	29.1	62.4	5 900*	35.0	64.9	6 800*	42.4	67.8	8 200*	48.8	69.8	9 900*	58.0	71.9	13 700*				31.0	
32.0	24.8	60.3	5 600*	31.4	63.3	6 300*	39.4	66.6	7 600*	46.1	68.8	9 200*	55.8	71.2	12 700*				32.0	
33.0	19.5	57.7	5 200*	27.4	61.5	5 900*	36.3	65.2	7 100*	43.4	67.8	8 500*	53.4	70.5	11 700*				33.0	
34.0				22.8	59.2	5 500*	32.8	63.7	6 600*	40.5	66.6	7 900*	51.0	69.6	10 800*				34.0	
35.0				16.9	56.2	5 100*	29.0	61.9	6 100*	37.4	65.3	7 400*	48.5	68.8	10 000*				35.0	
36.0							24.6	59.9	5 700*	34.1	63.9	6 900*	45.8	67.8	9 300*	55.3	69.8	8 900	36.0	
37.0							19.3	57.2	5 400*	30.4	62.2	6 400*	43.1	66.7	8 600*	52.9	69.0	8 200	37.0	
38.0							11.7	53.3	5 100*		26.3	60.3	6 000*	40.2	65.6	8 000*	50.4	68.2	7 500	38.0
39.0											21.4	57.9	5 600*	37.0	64.2	7 500*	47.9	67.3	6 900	39.0
40.0														33.7	62.8	7 000	45.2	66.3	6 300	40.0
42.0														25.8	59.1	5 800	39.5	64.0	5 200	42.0
44.0														13.9	53.2	4 700	32.9	61.2	4 100	44.0
46.0																	24.8	57.4	3 200	46.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

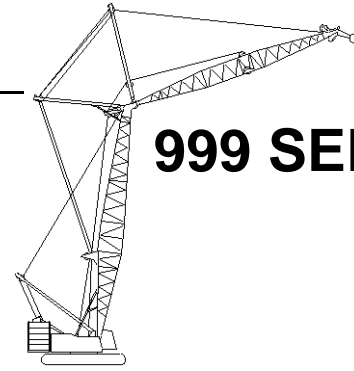
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 45.7m (150 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
13.7	74.5	80.2	25 900*																13.7
14.0	74.0	80.1	25 200*																14.0
15.0	72.2	79.8	22 700*																15.0
16.0	70.4	79.4	20 500*																16.0
17.0	68.5	79.0	18 600*	71.4	79.5	21 800*													17.0
18.0	66.6	78.6	17 000*	69.6	79.1	19 800*													18.0
19.0	64.8	78.1	15 700*	67.8	78.7	18 000*													19.0
20.0	62.8	77.6	14 400*	65.9	78.3	16 500*	70.3	79.0	20 600*										20.0
21.0	60.9	77.0	13 300*	64.0	77.8	15 200*	68.5	78.6	18 700*										21.0
22.0	58.8	76.4	12 300*	62.0	77.2	14 000*	66.6	78.2	17 100*										22.0
23.0	56.8	75.8	11 200*	60.0	76.7	12 900*	64.7	77.7	15 700*										23.0
24.0	54.7	75.0	10 300*	58.0	76.0	11 900*	62.8	77.2	14 400*										24.0
25.0	52.5	74.3	9 500*	55.9	75.4	11 000*	60.8	76.6	13 300*	65.4	77.5	16 300*							25.0
26.0	50.3	73.4	8 700*	53.8	74.6	10 100*	58.8	76.0	12 400*	63.5	77.0	14 900*							26.0
27.0	48.0	72.5	8 000*	51.6	73.8	9 300*	56.7	75.4	11 500*	61.5	76.4	13 800*							27.0
28.0	45.6	71.6	7 400*	49.4	73.0	8 600*	54.6	74.7	10 600*	59.5	75.9	12 800*							28.0
29.0	43.1	70.5	6 800*	47.0	72.1	7 900*	52.5	73.9	9 800*	57.5	75.2	11 800*							29.0
30.0	40.5	69.3	6 300*	44.6	71.0	7 200*	50.2	73.0	9 000*	55.4	74.5	11 000*							30.0
31.0	37.7	68.1	5 800*	42.0	69.9	6 700*	47.9	72.1	8 300*	53.3	73.8	10 200*	61.3	75.5	13 700*				31.0
32.0	34.7	66.6	5 300*	39.4	68.7	6 200*	45.5	71.2	7 600*	51.1	73.0	9 400*	59.3	74.9	12 700*				32.0
33.0	31.5	65.0	4 900*	36.5	67.4	5 700*	43.0	70.1	7 000*	48.8	72.1	8 700*	57.2	74.2	11 700*				33.0
34.0	27.9	63.2	4 600*	33.4	65.9	5 300*	40.4	68.9	6 500*	46.4	71.1	8 000*	55.2	73.5	10 900*				34.0
35.0	23.8	61.0	4 200*	30.0	64.2	4 900*	37.6	67.7	6 000*	43.9	70.1	7 400*	53.0	72.8	10 100*				35.0
36.0	18.8	58.3	3 900*	26.3	62.3	4 500*	34.6	66.2	5 500*	41.4	69.0	6 800*	50.8	71.9	9 400*				36.0
37.0				21.9	59.9	4 200*	31.4	64.6	5 100*	38.6	67.7	6 300*	48.5	71.1	8 700*	56.8	72.8	8 200	37.0
38.0				16.3	56.8	3 900*	27.8	62.8	4 700*	35.7	66.4	5 800*	46.1	70.1	8 100*	54.7	72.1	7 500	38.0
39.0							23.6	60.6	4 400*	32.6	64.8	5 400*	43.6	69.1	7 500*	52.5	71.3	6 900	39.0
40.0							18.6	57.8	4 000*	29.1	63.1	5 000*	41.0	67.9	6 900*	50.3	70.5	6 300	40.0
42.0													35.4	65.3	5 900	45.6	68.6	5 200	42.0
44.0													28.7	61.9	5 000	40.5	66.4	4 200	44.0
46.0													20.0	57.3	3 900	34.7	63.7	3 300	46.0
48.0																27.9	60.3	2 400	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

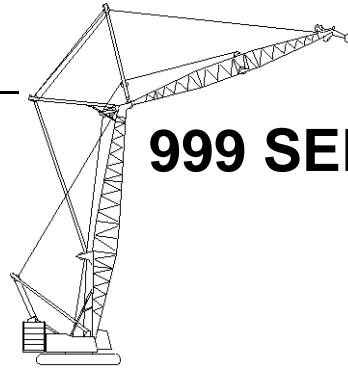
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 45.7m (150 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	75.8	83.3	26 700*																13.7
14.0	75.4	83.3	26 200*																14.0
15.0	73.7	83.0	24 300*																15.0
16.0	72.1	82.6	22 400*																16.0
17.0	70.4	82.3	20 400*	73.1	82.7	23 600*													17.0
18.0	68.7	81.9	18 800*	71.4	82.4	21 600*													18.0
19.0	67.0	81.5	17 300*	69.7	82.0	19 800*													19.0
20.0	65.3	81.0	16 000*	68.0	81.6	18 200*													20.0
21.0	63.5	80.5	14 900*	66.3	81.2	16 800*													21.0
22.0	61.7	80.0	13 800*	64.6	80.7	15 600*	68.7	81.5	18 900*										22.0
23.0	59.9	79.4	12 900*	62.8	80.2	14 500*	67.0	81.1	17 400*										23.0
24.0	58.1	78.7	12 000*	61.0	79.6	13 500*	65.2	80.6	16 100*										24.0
25.0	56.2	78.1	11 200*	59.2	79.0	12 600*	63.5	80.1	14 900*										25.0
26.0	54.2	77.4	10 400*	57.3	78.4	11 800*	61.7	79.6	13 900*	65.9	80.4	16 500*							26.0
27.0	52.2	76.6	9 600*	55.4	77.7	11 000*	59.9	79.0	12 900*	64.1	79.9	15 400*							27.0
28.0	50.2	75.7	8 900*	53.4	76.9	10 200*	58.0	78.4	12 100*	62.3	79.4	14 300*							28.0
29.0	48.1	74.8	8 300*	51.4	76.1	9 400*	56.1	77.7	11 300*	60.5	78.8	13 300*							29.0
30.0	45.9	73.9	7 700*	49.3	75.3	8 800*	54.2	77.0	10 600*	58.7	78.2	12 400*							30.0
31.0	43.6	72.8	7 100*	47.2	74.4	8 200*	52.2	76.2	9 900*	56.8	77.5	11 600*							31.0
32.0	41.3	71.7	6 600*	45.0	73.4	7 600*	50.1	75.3	9 200*	54.9	76.8	10 900*	62.1	78.4	13 500				32.0
33.0	38.8	70.5	6 100*	42.7	72.3	7 000*	48.0	74.4	8 500*	52.9	76.1	10 200*	60.3	77.8	12 500				33.0
34.0	36.1	69.1	5 700*	40.2	71.1	6 500*	45.8	73.5	7 900*	50.9	75.3	9 600*	58.5	77.2	11 700				34.0
35.0	33.3	67.6	5 300*	37.7	69.8	6 100*	43.6	72.4	7 400*	48.8	74.4	8 900*	56.6	76.5	10 800				35.0
36.0	30.2	65.9	5 000*	35.0	68.4	5 700*	41.2	71.3	6 900*	46.6	73.5	8 300*	54.6	75.8	10 100				36.0
37.0	26.8	64.0	4 600*	32.0	66.8	5 300*	38.7	70.1	6 400*	44.4	72.4	7 700*	52.7	75.1	9 300				37.0
38.0	22.9	61.7	4 300*	28.9	65.1	4 900*	36.0	68.7	6 000*	42.1	71.3	7 200*	50.6	74.2	8 600				38.0
39.0	18.2	58.9	3 500*	25.3	63.0	4 500*	33.2	67.2	5 600*	39.6	70.1	6 700*	48.5	73.4	8 000	56.2	75.1	7 100	39.0
40.0				21.1	60.6	4 100*	30.1	65.5	5 200*	37.0	68.8	6 300*	46.4	72.4	7 400	54.2	74.4	6 500	40.0
42.0							22.8	61.3	4 500*	31.3	65.8	5 400*	41.8	70.3	6 200	50.2	72.8	5 400	42.0
44.0										24.3	61.8	4 700*	36.7	67.7	5 200	45.9	70.9	4 400	44.0
46.0													30.9	64.6	4 300	41.3	68.8	3 500	46.0
48.0													23.8	60.6	3 400	36.1	66.2	2 700	48.0
50.0													13.3	54.3	2 500	30.2	63.0	1 900	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

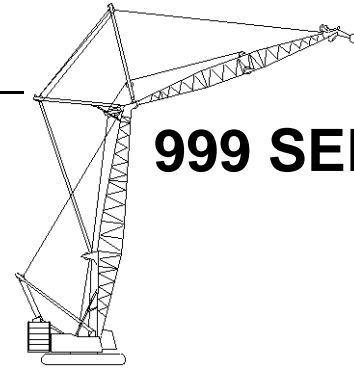
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 45.7m (150 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	74.7	86.1	22 800*													15.2
16.0	73.5	85.8	21 400*													16.0
17.0	72.0	85.5	19 600*													17.0
18.0	70.4	85.2	18 000*													18.0
19.0	68.9	84.8	16 600*	71.4	85.3	19 000*										19.0
20.0	67.3	84.4	15 300*	69.8	84.9	17 400*										20.0
21.0	65.7	83.9	14 100*	68.2	84.5	16 100*										21.0
22.0	64.1	83.4	13 100*	66.7	84.1	14 800*										22.0
23.0	62.5	82.9	12 200*	65.1	83.6	13 700*	68.8	84.4	16 600*							23.0
24.0	60.8	82.3	11 300*	63.4	83.1	12 700*	67.3	84.0	15 400*							24.0
25.0	59.1	81.7	10 500*	61.8	82.6	11 800*	65.7	83.5	14 200*							25.0
26.0	57.4	81.1	9 800*	60.1	82.0	11 000*	64.1	83.0	13 100*	67.8	83.7	15 800*				26.0
27.0	55.6	80.4	9 200*	58.4	81.4	10 300*	62.4	82.5	12 200*	66.2	83.3	14 600*				27.0
28.0	53.8	79.7	8 500*	56.7	80.7	9 600*	60.8	81.9	11 400*	64.6	82.8	13 500*				28.0
29.0	52.0	78.9	8 000*	54.9	80.0	8 900*	59.1	81.3	10 600*	63.0	82.3	12 600*				29.0
30.0	50.1	78.0	7 500*	53.1	79.2	8 300*	57.3	80.7	9 900*	61.4	81.8	11 700*				30.0
31.0	48.2	77.2	7 000*	51.2	78.4	7 800*	55.6	80.0	9 200*	59.7	81.2	10 900*				31.0
32.0	46.1	76.2	6 500*	49.3	77.6	7 300*	53.8	79.3	8 600*	58.0	80.5	10 200*				32.0
33.0	44.1	75.2	6 100*	47.3	76.7	6 800*	51.9	78.5	8 000*	56.2	79.9	9 500*				33.0
34.0	41.9	74.1	5 600*	45.3	75.7	6 400*	50.0	77.6	7 500*	54.4	79.2	8 900*	61.2	80.8	11 600	34.0
35.0	39.6	72.9	5 200*	43.2	74.6	6 000*	48.1	76.8	7 000*	52.6	78.4	8 300*	59.5	80.2	10 800	35.0
36.0	37.3	71.6	4 800*	41.0	73.5	5 600*	46.1	75.8	6 600*	50.7	77.6	7 700*	57.8	79.5	10 000	36.0
37.0	34.7	70.1	4 400*	38.7	72.2	5 200*	44.0	74.8	6 200*	48.8	76.7	7 200*	56.0	78.9	9 300	37.0
38.0	32.0	68.6	4 100*	36.2	70.9	4 800*	41.8	73.6	5 800*	46.8	75.8	6 800*	54.2	78.1	8 600	38.0
39.0	29.1	66.8	3 700*	33.6	69.4	4 400*	39.6	72.4	5 400*	44.8	74.8	6 300*	52.4	77.4	8 000	39.0
40.0	25.8	64.8	3 400*	30.9	67.8	4 000*	37.2	71.1	5 000*	42.6	73.7	5 900*	50.5	76.5	7 400	40.0
42.0				24.4	63.8	3 400*	31.9	68.1	4 300*	38.1	71.2	5 200*	46.6	74.7	6 300	42.0
44.0							25.7	64.4	3 600*	32.9	68.3	4 500*	42.4	72.6	5 300	44.0
46.0										27.0	64.7	3 800*	37.8	70.2	4 300	46.0
48.0										19.3	59.8	3 100*	32.6	67.2	3 500	48.0
50.0													26.6	63.6	2 700	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 48.8m (160 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

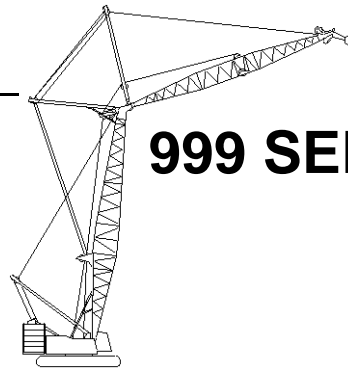
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	52.1	60.3	15 100*																12.2
13.0	46.8	59.6	13 500*																13.0
14.0	39.5	58.4	11 500*	51.4	60.1	15 100*													14.0
15.0	30.5	56.8	10 100*	44.7	59.1	12 900*													15.0
16.0				37.0	57.8	11 100*													16.0
17.0							48.4	59.4	14 200*										17.0
18.0							41.3	58.3	12 200*										18.0
19.0							32.8	56.8	10 500*	51.8	59.5	15 800*b							19.0
20.0										45.1	58.5	13 200*							20.0
21.0										37.5	57.2	11 400*							21.0
22.0													52.7	58.6	16 300*				22.0
23.0													46.1	57.7	13 900*				23.0
24.0													38.6	56.4	11 900*				24.0
25.0																			25.0
26.0																			26.0
27.0																			27.0
28.0																46.4	56.4	14 200*	28.0
29.0																39.0	55.2	12 100*	29.0
30.0																29.8	53.5	10 500*	30.0

## 48.8m (160 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	61.1	61.5	16 700*b																10.7
11.0	59.2	61.2	15 800*b																11.0
12.0	53.3	60.5	13 100*																12.0
13.0	46.8	59.6	11 000*	57.5	60.9	15 200*													13.0
14.0	39.5	58.4	9 500*	51.4	60.1	12 500*													14.0
15.0	30.5	56.8	8 300*	44.7	59.1	10 600*													15.0
16.0				37.0	57.8	9 100*	54.8	60.3	14 100*										16.0
17.0							48.4	59.4	11 700*										17.0
18.0							41.3	58.3	10 000*										18.0
19.0							32.8	56.8	8 700*	51.8	59.5	13 100*							19.0
20.0										45.1	58.5	10 900*							20.0
21.0										37.5	57.2	9 400*							21.0
22.0													58.7	59.4	16 700*b				22.0
23.0													52.7	58.6	13 500*				23.0
24.0													46.1	57.7	11 300*				24.0
25.0													38.6	56.4	9 800*				25.0
26.0																			26.0
27.0																			27.0
28.0																46.4	56.4	11 800*	28.0
29.0																39.0	55.2	10 000*	29.0
30.0																29.8	53.5	8 600*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

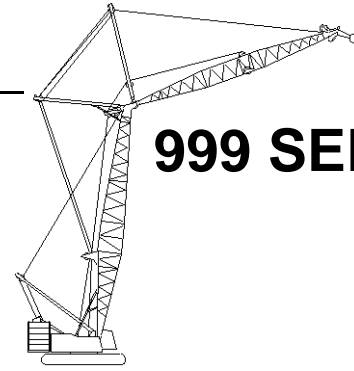
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 48.8m (160 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
10.7	61.1	61.5	14 800*																10.7	
11.0	59.2	61.2	14 000*																11.0	
12.0	53.3	60.5	11 500*																12.0	
13.0	46.8	59.6	9 600*	57.5	60.9	13 400*													13.0	
14.0	39.5	58.4	8 300*	51.4	60.1	10 900*													14.0	
15.0	30.5	56.8	7 200*	44.7	59.1	9 300*													15.0	
16.0				37.0	57.8	8 000*	54.8	60.3	12 400*										16.0	
17.0							48.4	59.4	10 200*	63.5	60.9	17 200*b							17.0	
18.0							41.3	58.3	8 700*	57.8	60.3	13 900*							18.0	
19.0							32.8	56.8	7 500*	51.8	59.5	11 200*							19.0	
20.0										45.1	58.5	9 600*							20.0	
21.0										37.5	57.2	8 200*							21.0	
22.0													58.7	59.4	14 700*				22.0	
23.0													52.7	58.6	11 800*				23.0	
24.0													46.1	57.7	9 900*				24.0	
25.0													38.6	56.4	8 500*				25.0	
26.0																			26.0	
27.0																			27.0	
28.0																	46.4	56.4	10 300*	28.0
29.0																	39.0	55.2	8 700*	29.0
30.0																	29.8	53.5	7 500*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

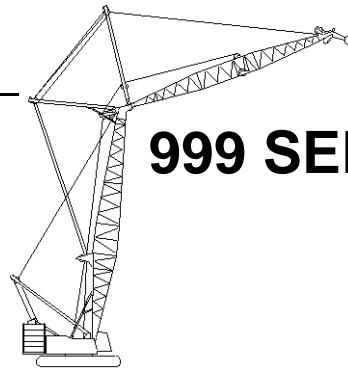
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 48.8m (160 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	67.4	64.9	21 500*																10.7
11.0	66.0	64.8	20 400*																11.0
12.0	61.7	64.2	16 800*																12.0
13.0	57.2	63.6	14 000*	64.8	64.5	19 500*													13.0
14.0	52.4	62.8	12 100*	60.4	63.9	15 900*													14.0
15.0	47.3	61.9	10 600*	55.8	63.2	13 500*													15.0
16.0	41.6	60.8	9 300*	50.9	62.4	11 700*	62.8	64.0	18 100*										16.0
17.0	35.2	59.4	8 200*	45.7	61.4	10 200*	58.3	63.3	15 000*										17.0
18.0	27.3	57.6	7 300*	39.8	60.3	9 000*	53.6	62.6	12 800*										18.0
19.0				33.0	58.8	8 000*	48.6	61.7	11 100*	60.7	63.3	16 800*							19.0
20.0							43.0	60.7	9 700*	56.1	62.6	14 000*							20.0
21.0							36.8	59.3	8 600*	51.2	61.8	12 000*							21.0
22.0							29.4	57.7	7 600*	46.0	60.8	10 500*							22.0
23.0										40.2	59.6	9 300*	61.3	62.4	17 400*				23.0
24.0										33.4	58.2	8 200*	56.7	61.7	14 800*				24.0
25.0													51.9	60.9	12 500*				25.0
26.0													46.7	60.0	10 900*				26.0
27.0													41.0	58.8	9 600*				27.0
28.0													34.5	57.4	8 500*				28.0
29.0																52.1	59.6	12 800*	29.0
30.0																47.0	58.7	11 200*	30.0
31.0																41.3	57.6	9 700*	31.0
32.0																34.7	56.2	8 600*	32.0
33.0																26.8	54.3	7 600*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

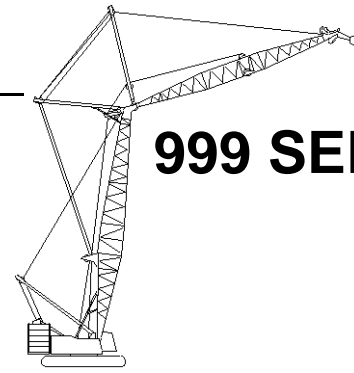
### 48.8m (160 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		
10.7	61.1	61.5	13 700*																10.7	
11.0	59.2	61.2	13 000*																11.0	
12.0	53.3	60.5	10 800*																12.0	
13.0	46.8	59.6	9 000*	57.5	60.9	12 500*													13.0	
14.0	39.5	58.4	7 800*	51.4	60.1	10 200*	66.0	61.6	17 500*										14.0	
15.0	30.5	56.8	6 800*	44.7	59.1	8 700*	60.6	61.0	13 900*										15.0	
16.0				37.0	57.8	7 500*	54.8	60.3	11 200*											16.0
17.0							48.4	59.4	9 500*	63.5	60.9	15 700*							17.0	
18.0							41.3	58.3	8 200*	57.8	60.3	12 800*							18.0	
19.0							32.8	56.8	7 100*	51.8	59.5	10 400*							19.0	
20.0										45.1	58.5	8 900*							20.0	
21.0										37.5	57.2	7 700*							21.0	
22.0													58.7	59.4	13 400*				22.0	
23.0													52.7	58.6	10 900*				23.0	
24.0													46.1	57.7	9 200*				24.0	
25.0													38.6	56.4	7 900*				25.0	
26.0																			26.0	
27.0																			27.0	
28.0																	46.4	56.4	9 500*	28.0
29.0																	39.0	55.2	8 100*	29.0
30.0																	29.8	53.5	7 000*	30.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

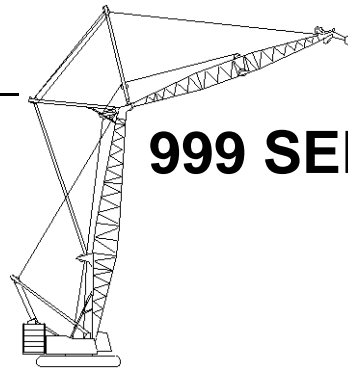
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 48.8m (160 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	67.4	64.9	19 100*																10.7
11.0	66.0	64.8	18 100*																11.0
12.0	61.7	64.2	15 000*																12.0
13.0	57.2	63.6	12 500*	64.8	64.5	17 300*													13.0
14.0	52.4	62.8	10 800*	60.4	63.9	14 200*													14.0
15.0	47.3	61.9	9 400*	55.8	63.2	12 000*													15.0
16.0	41.6	60.8	8 200*	50.9	62.4	10 400*	62.8	64.0	16 000*										16.0
17.0	35.2	59.4	7 300*	45.7	61.4	9 100*	58.3	63.3	13 200*										17.0
18.0	27.3	57.6	6 500*	39.8	60.3	8 000*	53.6	62.6	11 300*										18.0
19.0				33.0	58.8	7 100*	48.6	61.7	9 900*	60.7	63.3	14 800*							19.0
20.0							43.0	60.7	8 600*	56.1	62.6	12 400*							20.0
21.0							36.8	59.3	7 600*	51.2	61.8	10 700*							21.0
22.0							29.4	57.7	6 800*	46.0	60.8	9 300*							22.0
23.0										40.2	59.6	8 200*	61.3	62.4	15 200*				23.0
24.0										33.4	58.2	7 200*	56.7	61.7	13 000*				24.0
25.0													51.9	60.9	11 000*				25.0
26.0													46.7	60.0	9 600*				26.0
27.0													41.0	58.8	8 400*				27.0
28.0													34.5	57.4	7 500*				28.0
29.0																52.1	59.6	11 200*	29.0
30.0																47.0	58.7	9 800*	30.0
31.0																41.3	57.6	8 600*	31.0
32.0																34.7	56.2	7 600*	32.0
33.0																26.8	54.3	6 700*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

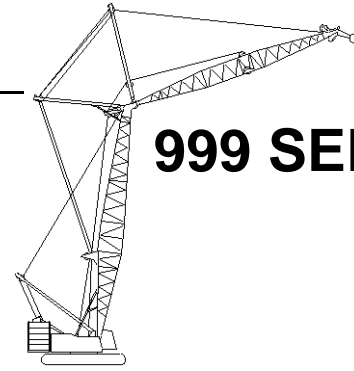
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 48.8m (160 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	71.4	68.2	24 400*																10.7
11.0	70.3	68.1	23 000*																11.0
12.0	66.9	67.7	19 000*																12.0
13.0	63.3	67.1	15 900*	69.3	67.9	22 000*													13.0
14.0	59.7	66.6	13 800*	65.8	67.4	18 000*													14.0
15.0	55.9	65.9	12 000*	62.3	66.9	15 300*													15.0
16.0	51.9	65.1	10 600*	58.6	66.2	13 300*	67.7	67.4	20 400*										16.0
17.0	47.6	64.2	9 400*	54.7	65.5	11 600*	64.2	66.9	16 900*										17.0
18.0	43.0	63.1	8 400*	50.6	64.7	10 300*	60.6	66.3	14 500*										18.0
19.0	37.9	61.9	7 500*	46.3	63.8	9 100*	56.8	65.7	12 600*										19.0
20.0	32.1	60.3	6 800*	41.5	62.6	8 200*	52.8	64.9	11 100*	62.5	66.2	15 900*							20.0
21.0	25.1	58.3	6 100*	36.3	61.3	7 300*	48.6	64.0	9 800*	58.8	65.6	13 700*							21.0
22.0				30.2	59.7	6 600*	44.1	63.0	8 700*	54.9	64.9	11 900*							22.0
23.0							39.2	61.8	7 800*	50.8	64.1	10 500*							23.0
24.0							33.6	60.3	7 000*	46.5	63.1	9 300*							24.0
25.0							26.9	58.5	6 300*	41.8	62.0	8 300*	59.3	64.7	14 200*				25.0
26.0										36.6	60.7	7 500*	55.5	64.0	12 300*				26.0
27.0										30.6	59.1	6 700*	51.4	63.2	10 800*				27.0
28.0													47.1	62.3	9 600*				28.0
29.0													42.5	61.2	8 600*				29.0
30.0													37.4	59.9	7 700*				30.0
31.0													31.5	58.3	6 900*	51.6	61.9	11 100*	31.0
32.0													24.2	56.3	6 300*	47.3	61.0	9 800*	32.0
33.0																42.7	59.9	8 700*	33.0
34.0																37.6	58.6	7 800*	34.0
35.0																31.7	57.1	7 000*	35.0
36.0																24.6	55.0	6 300*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

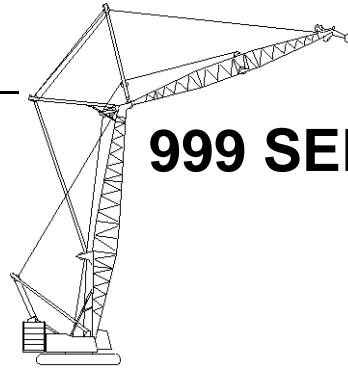
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 48.8m (160 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.2	71.4	26 700*																10.7
11.0	73.3	71.3	26 100*																11.0
12.0	70.4	71.0	24 300*																12.0
13.0	67.5	70.5	21 500*																13.0
14.0	64.5	70.1	18 000*	69.5	70.7	23 800*													14.0
15.0	61.4	69.5	15 800*	66.6	70.3	20 300*													15.0
16.0	58.2	68.9	13 900*	63.5	69.8	17 400*													16.0
17.0	54.9	68.2	12 300*	60.4	69.2	15 300*	68.2	70.3	22 300*										17.0
18.0	51.4	67.4	11 100*	57.2	68.6	13 500*	65.2	69.8	19 200*										18.0
19.0	47.8	66.5	10 000*	53.9	67.8	12 000*	62.1	69.3	16 500*										19.0
20.0	43.9	65.5	9 000*	50.4	67.0	10 800*	59.0	68.7	14 600*	66.7	69.6	20 800*							20.0
21.0	39.7	64.3	8 100*	46.7	66.1	9 700*	55.7	68.0	12 900*	63.7	69.1	18 000*							21.0
22.0	35.1	62.9	7 400*	42.7	65.0	8 800*	52.3	67.2	11 500*	60.6	68.6	15 600*							22.0
23.0	29.8	61.2	6 800*	38.4	63.8	8 000*	48.7	66.3	10 400*	57.4	67.9	13 900*							23.0
24.0	23.4	59.0	6 200*	33.6	62.3	7 200*	44.9	65.3	9 400*	54.1	67.2	12 300*							24.0
25.0				28.0	60.5	6 600*	40.8	64.2	8 500*	50.6	66.4	11 100*							25.0
26.0							36.2	62.8	7 700*	46.9	65.4	10 000*	61.1	67.7	16 200*				26.0
27.0							31.1	61.2	7 000*	42.9	64.4	9 000*	57.9	67.0	14 300*				27.0
28.0							25.1	59.2	6 400*	38.7	63.1	8 100*	54.5	66.3	12 700*				28.0
29.0										33.9	61.7	7 400*	51.1	65.5	11 400*				29.0
30.0										28.4	59.9	6 800*	47.4	64.6	10 200*				30.0
31.0													43.5	63.6	9 200*				31.0
32.0													39.3	62.3	8 400*	54.7	65.0	12 900*	32.0
33.0													34.6	60.9	7 600*	51.2	64.2	11 600*	33.0
34.0													29.2	59.2	6 900*	47.6	63.3	10 400*	34.0
35.0													22.6	57.0	6 300*	43.7	62.3	9 400*	35.0
36.0																39.5	61.1	8 500*	36.0
37.0																34.8	59.7	7 700*	37.0
38.0																29.5	57.9	7 000*	38.0
39.0																22.9	55.7	6 400*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

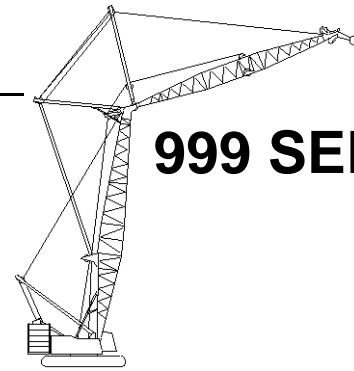
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 48.8m (160 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.5	74.1	26 700*																12.2
13.0	70.4	73.8	24 600*																13.0
14.0	67.9	73.4	22 100*	72.2	74.0	26 100*													14.0
15.0	65.3	73.0	19 300*	69.7	73.6	24 000*													15.0
16.0	62.6	72.5	17 000*	67.1	73.2	21 500*													16.0
17.0	59.9	71.9	15 100*	64.5	72.7	18 600*													17.0
18.0	57.1	71.2	13 600*	61.8	72.2	16 500*													18.0
19.0	54.2	70.5	12 300*	59.1	71.6	14 800*	65.9	72.7	20 300*										19.0
20.0	51.1	69.7	11 100*	56.2	70.9	13 300*	63.3	72.2	17 800*										20.0
21.0	48.0	68.8	10 100*	53.3	70.1	12 000*	60.6	71.6	15 800*										21.0
22.0	44.6	67.8	9 300*	50.2	69.3	10 900*	57.8	71.0	14 200*	64.7	72.0	19 200*							22.0
23.0	41.0	66.6	8 500*	47.0	68.4	9 900*	54.9	70.3	12 800*	62.0	71.5	17 000*							23.0
24.0	37.2	65.3	7 800*	43.6	67.3	9 100*	51.9	69.5	11 600*	59.2	70.9	15 200*							24.0
25.0	32.9	63.8	7 200*	39.9	66.2	8 300*	48.7	68.6	10 600*	56.4	70.2	13 600*							25.0
26.0	28.0	62.0	6 600*	35.9	64.8	7 600*	45.4	67.6	9 600*	53.4	69.5	12 300*							26.0
27.0	22.1	59.7	6 100*	31.5	63.2	7 000*	41.9	66.5	8 800*	50.4	68.7	11 200*							27.0
28.0				26.3	61.3	6 500*	38.1	65.3	8 100*	47.2	67.7	10 200*	59.6	70.0	15 600*				28.0
29.0							33.9	63.8	7 500*	43.8	66.7	9 300*	56.8	69.4	14 000*				29.0
30.0							29.2	62.1	6 900*	40.1	65.5	8 600*	53.9	68.6	12 600*				30.0
31.0							23.6	59.9	6 300*	36.2	64.2	7 900*	50.8	67.8	11 500*				31.0
32.0							16.1	56.9	5 800*	31.8	62.6	7 300*	47.6	66.9	10 500*				32.0
33.0										26.7	60.7	6 700*	44.2	65.9	9 600*				33.0
34.0													40.6	64.7	8 800*	54.0	67.3	12 700	34.0
35.0													36.7	63.4	8 100*	50.9	66.5	11 700	35.0
36.0													32.4	61.9	7 400*	47.8	65.6	10 700*	36.0
37.0													27.4	60.0	6 900*	44.4	64.6	9 700*	37.0
38.0													21.4	57.6	6 400*	40.8	63.4	8 900*	38.0
39.0																36.9	62.1	8 200*	39.0
40.0																32.6	60.6	7 600*	40.0
42.0																21.6	56.4	6 400*	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

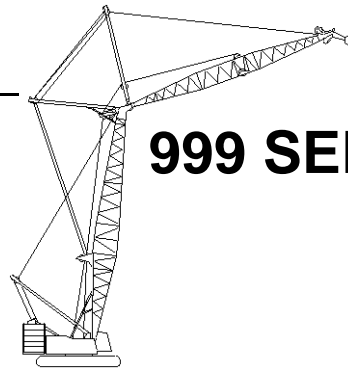
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 48.8m (160 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.5	77.3	26 700*																12.2
13.0	72.7	77.1	26 700*																13.0
14.0	70.5	76.7	26 100*																14.0
15.0	68.2	76.3	23 900*																15.0
16.0	65.9	75.9	21 700*	69.8	76.5	25 400*													16.0
17.0	63.6	75.4	19 400*	67.5	76.1	23 600*													17.0
18.0	61.2	74.8	17 600*	65.2	75.6	21 200*													18.0
19.0	58.7	74.2	15 900*	62.9	75.1	19 000*	68.8	76.0	25 000*										19.0
20.0	56.2	73.5	14 500*	60.5	74.5	17 200*	66.5	75.6	22 700*										20.0
21.0	53.6	72.8	13 200*	58.0	73.9	15 600*	64.1	75.1	20 400*										21.0
22.0	50.9	72.0	12 100*	55.4	73.2	14 200*	61.8	74.6	18 400*										22.0
23.0	48.1	71.1	11 100*	52.8	72.4	13 000*	59.3	74.0	16 600*	65.4	75.0	21 800*							23.0
24.0	45.1	70.1	10 200*	50.1	71.6	11 900*	56.8	73.3	15 100*	63.0	74.4	19 600*							24.0
25.0	42.0	69.0	9 400*	47.2	70.7	10 900*	54.2	72.6	13 800*	60.6	73.9	17 600*							25.0
26.0	38.7	67.8	8 700*	44.2	69.7	10 100*	51.5	71.8	12 600*	58.1	73.2	16 000*							26.0
27.0	35.1	66.4	8 100*	41.0	68.5	9 300*	48.8	70.9	11 600*	55.6	72.6	14 600*							27.0
28.0	31.1	64.7	7 500*	37.6	67.2	8 600*	45.8	69.9	10 700*	52.9	71.8	13 400*							28.0
29.0	26.5	62.8	7 000*	33.9	65.8	8 000*	42.8	68.9	9 800*	50.2	71.0	12 200*	60.9	73.0	18 100*				29.0
30.0	21.0	60.4	6 500*	29.8	64.1	7 400*	39.5	67.7	9 100*	47.4	70.1	11 300*	58.5	72.4	16 500*				30.0
31.0				25.0	62.0	6 900*	35.9	66.3	8 500*	44.4	69.0	10 400*	55.9	71.7	15 000*				31.0
32.0				19.0	59.4	6 400*	32.0	64.8	7 800*	41.2	67.9	9 600*	53.3	70.9	13 700*				32.0
33.0							27.7	62.9	7 300*	37.8	66.6	8 900*	50.6	70.1	12 600*				33.0
34.0							22.4	60.6	6 700*	34.1	65.2	8 200*	47.8	69.2	11 600*				34.0
35.0							15.5	57.5	6 300*	30.0	63.5	7 600*	44.8	68.2	10 700*				35.0
36.0										25.3	61.5	7 100*	41.7	67.1	9 800*	53.4	69.6	11 200	36.0
37.0													38.3	65.8	9 100*	50.7	68.8	10 500	37.0
38.0													34.7	64.4	8 500*	47.9	67.9	9 900	38.0
39.0													30.6	62.8	7 900*	44.9	66.9	9 200	39.0
40.0													26.0	60.8	7 300*	41.8	65.8	8 700	40.0
42.0																34.8	63.1	7 600	42.0
44.0																26.2	59.6	6 600	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

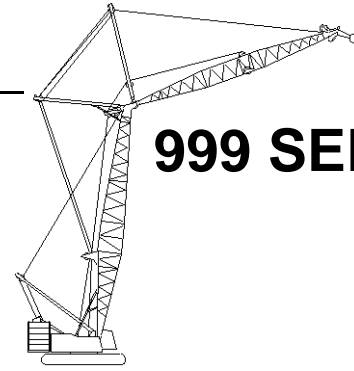
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 48.8m (160 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.5	74.1	26 600*																12.2
13.0	70.4	73.8	23 700*																13.0
14.0	67.9	73.4	20 200*	72.2	74.0	25 800*													14.0
15.0	65.3	73.0	17 700*	69.7	73.6	22 500*													15.0
16.0	62.6	72.5	15 700*	67.1	73.2	19 600*													16.0
17.0	59.9	71.9	14 000*	64.5	72.7	17 200*													17.0
18.0	57.1	71.2	12 600*	61.8	72.2	15 300*													18.0
19.0	54.2	70.5	11 300*	59.1	71.6	13 600*	65.9	72.7	18 700*										19.0
20.0	51.1	69.7	10 200*	56.2	70.9	12 300*	63.3	72.2	16 400*										20.0
21.0	48.0	68.8	9 300*	53.3	70.1	11 100*	60.6	71.6	14 600*										21.0
22.0	44.6	67.8	8 500*	50.2	69.3	10 000*	57.8	71.0	13 100*	64.7	72.0	17 700*							22.0
23.0	41.0	66.6	7 800*	47.0	68.4	9 200*	54.9	70.3	11 800*	62.0	71.5	15 700*							23.0
24.0	37.2	65.3	7 200*	43.6	67.3	8 400*	51.9	69.5	10 700*	59.2	70.9	14 000*							24.0
25.0	32.9	63.8	6 600*	39.9	66.2	7 600*	48.7	68.6	9 700*	56.4	70.2	12 600*							25.0
26.0	28.0	62.0	6 100*	35.9	64.8	7 000*	45.4	67.6	8 900*	53.4	69.5	11 400*							26.0
27.0	22.1	59.7	5 600*	31.5	63.2	6 500*	41.9	66.5	8 100*	50.4	68.7	10 300*							27.0
28.0				26.3	61.3	6 000*	38.1	65.3	7 500*	47.2	67.7	9 400*	59.6	70.0	14 400*				28.0
29.0							33.9	63.8	6 900*	43.8	66.7	8 600*	56.8	69.4	12 900*				29.0
30.0							29.2	62.1	6 300*	40.1	65.5	7 900*	53.9	68.6	11 700*				30.0
31.0							23.6	59.9	5 800*	36.2	64.2	7 200*	50.8	67.8	10 600*				31.0
32.0							16.1	56.9	5 400*	31.8	62.6	6 700*	47.6	66.9	9 700*				32.0
33.0										26.7	60.7	6 100*	44.2	65.9	8 800*				33.0
34.0													40.6	64.7	8 100*	54.0	67.3	11 300	34.0
35.0													36.7	63.4	7 500*	50.9	66.5	10 500	35.0
36.0													32.4	61.9	6 900*	47.8	65.6	9 800	36.0
37.0													27.4	60.0	6 300*	44.4	64.6	9 000	37.0
38.0													21.4	57.6	5 800*	40.8	63.4	8 200	38.0
39.0																36.9	62.1	7 600*	39.0
40.0																32.6	60.6	7 000*	40.0
42.0																21.6	56.4	5 900	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

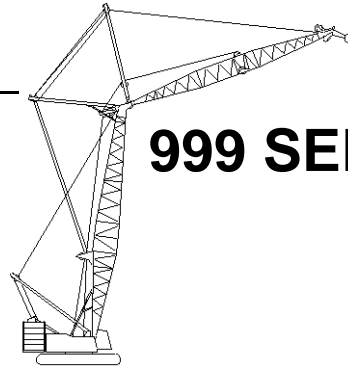
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 48.8m (160 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.5	77.3	26 700*																12.2
13.0	72.7	77.1	26 700*																13.0
14.0	70.5	76.7	25 800*																14.0
15.0	68.2	76.3	22 700*																15.0
16.0	65.9	75.9	20 000*	69.8	76.5	24 700*													16.0
17.0	63.6	75.4	17 900*	67.5	76.1	22 000*													17.0
18.0	61.2	74.8	16 100*	65.2	75.6	19 600*													18.0
19.0	58.7	74.2	14 600*	62.9	75.1	17 500*	68.8	76.0	23 700*										19.0
20.0	56.2	73.5	13 200*	60.5	74.5	15 700*	66.5	75.6	20 900*										20.0
21.0	53.6	72.8	12 100*	58.0	73.9	14 300*	64.1	75.1	18 700*										21.0
22.0	50.9	72.0	11 000*	55.4	73.2	13 000*	61.8	74.6	16 800*										22.0
23.0	48.1	71.1	10 100*	52.8	72.4	11 900*	59.3	74.0	15 200*	65.4	75.0	19 900*							23.0
24.0	45.1	70.1	9 300*	50.1	71.6	10 900*	56.8	73.3	13 800*	63.0	74.4	18 000*							24.0
25.0	42.0	69.0	8 600*	47.2	70.7	10 000*	54.2	72.6	12 600*	60.6	73.9	16 100*							25.0
26.0	38.7	67.8	7 900*	44.2	69.7	9 200*	51.5	71.8	11 500*	58.1	73.2	14 700*							26.0
27.0	35.1	66.4	7 300*	41.0	68.5	8 500*	48.8	70.9	10 600*	55.6	72.6	13 300*							27.0
28.0	31.1	64.7	6 800*	37.6	67.2	7 800*	45.8	69.9	9 700*	52.9	71.8	12 200*							28.0
29.0	26.5	62.8	6 300*	33.9	65.8	7 200*	42.8	68.9	9 000*	50.2	71.0	11 200*	60.9	73.0	16 500*				29.0
30.0	21.0	60.4	5 900*	29.8	64.1	6 700*	39.5	67.7	8 300*	47.4	70.1	10 300*	58.5	72.4	15 100*				30.0
31.0				25.0	62.0	6 200*	35.9	66.3	7 700*	44.4	69.0	9 500*	55.9	71.7	13 700*				31.0
32.0				19.0	59.4	5 800*	32.0	64.8	7 100*	41.2	67.9	8 800*	53.3	70.9	12 500*				32.0
33.0							27.7	62.9	6 600*	37.8	66.6	8 100*	50.6	70.1	11 500*				33.0
34.0							22.4	60.6	6 100*	34.1	65.2	7 500*	47.8	69.2	10 500*				34.0
35.0							15.5	57.5	5 700*	30.0	63.5	7 000*	44.8	68.2	9 700*				35.0
36.0										25.3	61.5	6 500*	41.7	67.1	9 000*	53.4	69.6	9 800	36.0
37.0													38.3	65.8	8 300*	50.7	68.8	9 100	37.0
38.0													34.7	64.4	7 700*	47.9	67.9	8 400	38.0
39.0													30.6	62.8	7 200*	44.9	66.9	7 800	39.0
40.0													26.0	60.8	6 700*	41.8	65.8	7 200	40.0
42.0																34.8	63.1	6 100	42.0
44.0																26.2	59.6	5 100	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

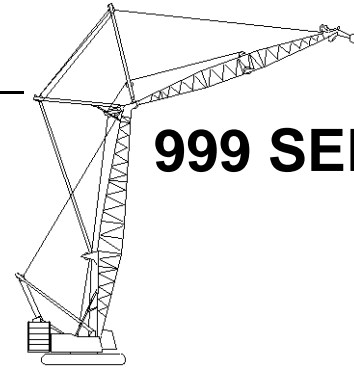
### 48.8m (160 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.5	74.1	24 600*																12.2
13.0	70.4	73.8	21 900*																13.0
14.0	67.9	73.4	18 700*	72.2	74.0	24 500*													14.0
15.0	65.3	73.0	16 400*	69.7	73.6	21 000*													15.0
16.0	62.6	72.5	14 500*	67.1	73.2	18 100*													16.0
17.0	59.9	71.9	12 900*	64.5	72.7	15 900*													17.0
18.0	57.1	71.2	11 600*	61.8	72.2	14 100*													18.0
19.0	54.2	70.5	10 400*	59.1	71.6	12 600*	65.9	72.7	17 300*										19.0
20.0	51.1	69.7	9 400*	56.2	70.9	11 300*	63.3	72.2	15 200*										20.0
21.0	48.0	68.8	8 600*	53.3	70.1	10 200*	60.6	71.6	13 500*										21.0
22.0	44.6	67.8	7 800*	50.2	69.3	9 300*	57.8	71.0	12 100*	64.7	72.0	16 400*							22.0
23.0	41.0	66.6	7 200*	47.0	68.4	8 400*	54.9	70.3	10 900*	62.0	71.5	14 500*							23.0
24.0	37.2	65.3	6 600*	43.6	67.3	7 700*	51.9	69.5	9 900*	59.2	70.9	12 900*							24.0
25.0	32.9	63.8	6 000*	39.9	66.2	7 000*	48.7	68.6	9 000*	56.4	70.2	11 600*							25.0
26.0	28.0	62.0	5 500*	35.9	64.8	6 500*	45.4	67.6	8 200*	53.4	69.5	10 500*							26.0
27.0	22.1	59.7	5 100*	31.5	63.2	5 900*	41.9	66.5	7 500*	50.4	68.7	9 500*							27.0
28.0				26.3	61.3	5 500*	38.1	65.3	6 900*	47.2	67.7	8 700*	59.6	70.0	13 400*				28.0
29.0							33.9	63.8	6 300*	43.8	66.7	7 900*	56.8	69.4	12 000*				29.0
30.0							29.2	62.1	5 800*	40.1	65.5	7 300*	53.9	68.6	10 800*				30.0
31.0							23.6	59.9	5 300*	36.2	64.2	6 700*	50.8	67.8	9 800*				31.0
32.0							16.1	56.9	4 900*	31.8	62.6	6 100*	47.6	66.9	8 900*				32.0
33.0										26.7	60.7	5 600*	44.2	65.9	8 200*				33.0
34.0													40.6	64.7	7 500*	54.0	67.3	10 000	34.0
35.0													36.7	63.4	6 900*	50.9	66.5	9 200	35.0
36.0													32.4	61.9	6 300*	47.8	65.6	8 400	36.0
37.0													27.4	60.0	5 800*	44.4	64.6	7 600	37.0
38.0													21.4	57.6	5 300*	40.8	63.4	7 000	38.0
39.0																36.9	62.1	6 300	39.0
40.0																32.6	60.6	5 700	40.0
42.0																21.6	56.4	4 400	42.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

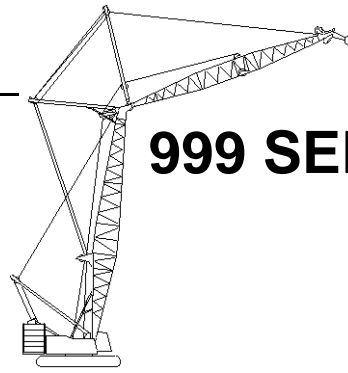
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 48.8m (160 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.5	77.3	26 700*																12.2
13.0	72.7	77.1	25 600*																13.0
14.0	70.5	76.7	23 900*																14.0
15.0	68.2	76.3	21 000*																15.0
16.0	65.9	75.9	18 400*	69.8	76.5	23 000*													16.0
17.0	63.6	75.4	16 500*	67.5	76.1	20 200*													17.0
18.0	61.2	74.8	14 800*	65.2	75.6	17 900*													18.0
19.0	58.7	74.2	13 400*	62.9	75.1	16 000*	68.8	76.0	21 900*										19.0
20.0	56.2	73.5	12 100*	60.5	74.5	14 500*	66.5	75.6	19 200*										20.0
21.0	53.6	72.8	11 000*	58.0	73.9	13 100*	64.1	75.1	17 200*										21.0
22.0	50.9	72.0	10 100*	55.4	73.2	11 900*	61.8	74.6	15 500*										22.0
23.0	48.1	71.1	9 300*	52.8	72.4	10 900*	59.3	74.0	14 000*	65.4	75.0	18 400*							23.0
24.0	45.1	70.1	8 500*	50.1	71.6	9 900*	56.8	73.3	12 700*	63.0	74.4	16 500*							24.0
25.0	42.0	69.0	7 800*	47.2	70.7	9 100*	54.2	72.6	11 600*	60.6	73.9	14 900*							25.0
26.0	38.7	67.8	7 200*	44.2	69.7	8 400*	51.5	71.8	10 600*	58.1	73.2	13 500*							26.0
27.0	35.1	66.4	6 700*	41.0	68.5	7 700*	48.8	70.9	9 700*	55.6	72.6	12 300*							27.0
28.0	31.1	64.7	6 200*	37.6	67.2	7 100*	45.8	69.9	8 900*	52.9	71.8	11 200*							28.0
29.0	26.5	62.8	5 700*	33.9	65.8	6 600*	42.8	68.9	8 200*	50.2	71.0	10 300*	60.9	73.0	15 200*				29.0
30.0	21.0	60.4	5 300*	29.8	64.1	6 100*	39.5	67.7	7 600*	47.4	70.1	9 400*	58.5	72.4	13 900*				30.0
31.0				25.0	62.0	5 700*	35.9	66.3	7 000*	44.4	69.0	8 700*	55.9	71.7	12 600*				31.0
32.0				19.0	59.4	5 300*	32.0	64.8	6 500*	41.2	67.9	8 000*	53.3	70.9	11 500*				32.0
33.0							27.7	62.9	6 000*	37.8	66.6	7 400*	50.6	70.1	10 600*				33.0
34.0							22.4	60.6	5 600*	34.1	65.2	6 900*	47.8	69.2	9 700*				34.0
35.0							15.5	57.5	5 200*	30.0	63.5	6 400*	44.8	68.2	9 000*				35.0
36.0										25.3	61.5	5 900*	41.7	67.1	8 300*	53.4	69.6	8 500	36.0
37.0													38.3	65.8	7 600*	50.7	68.8	7 800	37.0
38.0													34.7	64.4	7 100*	47.9	67.9	7 100	38.0
39.0													30.6	62.8	6 600*	44.9	66.9	6 500	39.0
40.0													26.0	60.8	6 100*	41.8	65.8	5 800	40.0
42.0																34.8	63.1	4 700	42.0
44.0																26.2	59.6	3 600	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

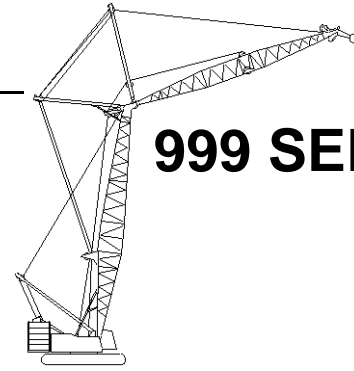
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 48.8m (160 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	73.1	80.1	26 700*																13.7
14.0	72.5	80.0	26 000*																14.0
15.0	70.5	79.6	23 700*																15.0
16.0	68.5	79.2	21 400*	71.9	79.8	25 200*													16.0
17.0	66.4	78.8	19 300*	69.9	79.4	23 100*													17.0
18.0	64.3	78.3	17 400*	67.9	79.0	20 900*													18.0
19.0	62.2	77.8	15 700*	65.8	78.5	18 800*													19.0
20.0	60.0	77.2	14 300*	63.7	78.0	17 000*	69.0	78.9	22 100*										20.0
21.0	57.8	76.5	13 100*	61.6	77.5	15 400*	66.9	78.5	20 100*										21.0
22.0	55.5	75.9	12 000*	59.4	76.9	14 100*	64.8	78.0	18 100*										22.0
23.0	53.1	75.1	11 000*	57.1	76.2	12 900*	62.7	77.5	16 400*										23.0
24.0	50.7	74.3	10 100*	54.8	75.5	11 800*	60.5	76.9	15 000*										24.0
25.0	48.2	73.4	9 400*	52.4	74.8	10 900*	58.3	76.3	13 700*	63.8	77.4	17 400*							25.0
26.0	45.5	72.4	8 600*	49.9	73.9	10 000*	56.0	75.6	12 600*	61.7	76.8	15 800*							26.0
27.0	42.8	71.3	8 000*	47.4	73.0	9 300*	53.7	74.9	11 500*	59.5	76.2	14 500*							27.0
28.0	39.8	70.1	7 400*	44.7	72.0	8 500*	51.3	74.1	10 600*	57.2	75.6	13 300*							28.0
29.0	36.7	68.8	6 900*	41.9	70.9	8 000*	48.8	73.2	9 800*	54.9	74.9	12 200*							29.0
30.0	33.3	67.3	6 400*	38.9	69.7	7 400*	46.2	72.3	9 100*	52.6	74.1	11 200*							30.0
31.0	29.6	65.6	6 000*	35.7	68.3	6 900*	43.4	71.2	8 400*	50.1	73.3	10 400*	59.8	75.3	14 000				31.0
32.0	25.3	63.6	5 600*	32.2	66.7	6 400*	40.5	70.0	7 800*	47.5	72.4	9 600*	57.6	74.7	13 000				32.0
33.0	20.1	61.0	5 200*	28.3	64.9	5 900*	37.5	68.8	7 300*	44.9	71.4	8 900*	55.3	74.0	12 100				33.0
34.0				23.8	62.8	5 500*	34.1	67.3	6 800*	42.1	70.3	8 300*	52.9	73.2	11 200				34.0
35.0				18.3	60.0	5 200*	30.5	65.6	6 300*	39.1	69.0	7 700*	50.4	72.4	10 300				35.0
36.0							26.4	63.7	5 900*	35.9	67.7	7 100*	47.9	71.5	9 600				36.0
37.0							21.5	61.3	5 500*	32.4	66.1	6 600*	45.3	70.5	8 900	55.4	72.7	7 900	37.0
38.0							15.0	58.0	5 200*	28.6	64.3	6 200*	42.5	69.4	8 100	53.0	71.9	7 300	38.0
39.0										24.1	62.2	5 800*	39.5	68.2	7 500	50.5	71.1	6 600	39.0
40.0													36.4	66.9	6 800	48.0	70.2	6 000	40.0
42.0													29.1	63.6	5 700	42.6	68.1	4 900	42.0
44.0													19.5	58.9	4 600	36.5	65.6	3 900	44.0
46.0																29.3	62.4	3 000	46.0
48.0																19.7	57.7	2 100	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

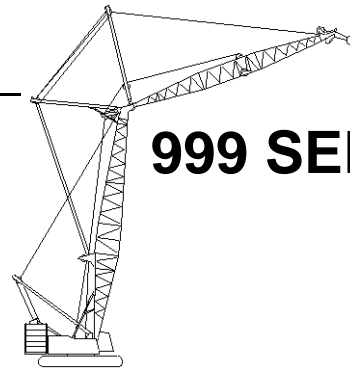
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**48.8m (160 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	74.7	83.3	26 200*													13.7
14.0	74.2	83.2	25 500*													14.0
15.0	72.4	82.8	23 000*													15.0
16.0	70.6	82.5	20 700*													16.0
17.0	68.7	82.1	18 900*	71.8	82.6	22 300*										17.0
18.0	66.8	81.7	17 300*	70.0	82.3	20 300*										18.0
19.0	65.0	81.2	15 900*	68.2	81.9	18 400*										19.0
20.0	63.0	80.7	14 600*	66.3	81.4	16 900*										20.0
21.0	61.1	80.1	13 500*	64.4	80.9	15 500*										21.0
22.0	59.1	79.5	12 400*	62.4	80.4	14 300*	67.3	81.4	17 800*							22.0
23.0	57.0	78.9	11 400*	60.5	79.8	13 200*	65.4	80.9	16 300*							23.0
24.0	54.9	78.2	10 400*	58.5	79.2	12 200*	63.5	80.4	15 000*							24.0
25.0	52.8	77.4	9 500*	56.4	78.6	11 200*	61.5	79.9	13 800*	66.4	80.7	17 100*				25.0
26.0	50.5	76.6	8 800*	54.3	77.8	10 300*	59.5	79.3	12 800*	64.5	80.3	15 700*				26.0
27.0	48.2	75.7	8 100*	52.1	77.1	9 500*	57.5	78.6	11 800*	62.6	79.7	14 400*				27.0
28.0	45.9	74.7	7 400*	49.9	76.2	8 700*	55.4	77.9	11 000*	60.6	79.2	13 400*				28.0
29.0	43.4	73.7	6 900*	47.5	75.3	8 000*	53.3	77.2	10 100*	58.6	78.6	12 400*				29.0
30.0	40.8	72.5	6 300*	45.1	74.3	7 400*	51.1	76.4	9 300*	56.5	77.9	11 500*				30.0
31.0	38.0	71.3	5 800*	42.6	73.2	6 800*	48.8	75.5	8 500*	54.4	77.2	10 600*				31.0
32.0	35.0	69.8	5 400*	39.9	72.0	6 300*	46.4	74.6	7 900*	52.2	76.4	9 800*	60.9	78.3	13 000	32.0
33.0	31.8	68.3	5 000*	37.1	70.7	5 800*	44.0	73.5	7 300*	50.0	75.6	9 000*	58.9	77.7	12 100	33.0
34.0	28.3	66.5	4 600*	34.1	69.3	5 400*	41.4	72.4	6 700*	47.7	74.7	8 300*	56.8	77.0	11 200	34.0
35.0	24.2	64.3	4 200*	30.8	67.6	4 900*	38.7	71.2	6 200*	45.3	73.7	7 700*	54.7	76.3	10 400	35.0
36.0	19.4	61.7	3 900*	27.1	65.7	4 500*	35.7	69.8	5 700*	42.7	72.6	7 100*	52.5	75.5	9 600	36.0
37.0				22.9	63.5	4 200*	32.6	68.3	5 300*	40.1	71.4	6 600*	50.3	74.7	8 900	37.0
38.0				17.7	60.6	3 900*	29.1	66.5	4 900*	37.3	70.1	6 100*	48.0	73.8	8 200	38.0
39.0							25.2	64.5	4 500*	34.3	68.7	5 600*	45.6	72.8	7 600	39.0
40.0							20.6	62.0	4 200*	31.0	67.0	5 200*	43.1	71.8	7 000	40.0
42.0										23.1	62.9	4 400*	37.7	69.3	5 800	42.0
44.0													31.5	66.3	4 800	44.0
46.0													23.8	62.3	3 800	46.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

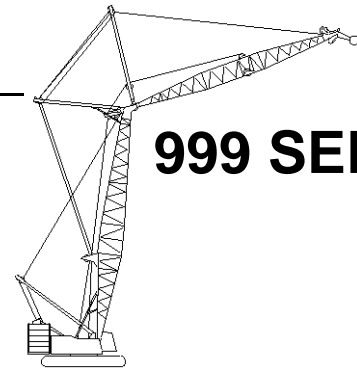
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 48.8m (160 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	76.0	86.4	26 000*													13.7
14.0	75.5	86.3	25 700*													14.0
15.0	73.9	86.0	24 400*													15.0
16.0	72.3	85.7	22 700*													16.0
17.0	70.6	85.4	20 600*	73.4	85.8	24 100*										17.0
18.0	68.9	85.0	19 000*	71.8	85.5	22 000*										18.0
19.0	67.2	84.6	17 500*	70.1	85.1	20 200*										19.0
20.0	65.5	84.1	16 200*	68.4	84.7	18 600*										20.0
21.0	63.7	83.6	15 000*	66.7	84.3	17 200*										21.0
22.0	61.9	83.1	14 000*	64.9	83.8	15 900*	69.3	84.7	19 500*							22.0
23.0	60.1	82.5	13 000*	63.2	83.3	14 800*	67.6	84.3	17 900*							23.0
24.0	58.3	81.9	12 100*	61.4	82.8	13 700*	65.9	83.8	16 600*							24.0
25.0	56.4	81.2	11 300*	59.6	82.2	12 800*	64.1	83.3	15 400*							25.0
26.0	54.4	80.5	10 400*	57.7	81.6	11 900*	62.3	82.8	14 300*	66.8	83.6	17 300*				26.0
27.0	52.5	79.7	9 700*	55.8	80.9	11 200*	60.5	82.2	13 300*	65.0	83.2	16 000*				27.0
28.0	50.4	78.9	8 900*	53.8	80.1	10 400*	58.7	81.6	12 400*	63.3	82.7	14 900*				28.0
29.0	48.3	78.0	8 300*	51.8	79.4	9 600*	56.8	81.0	11 700*	61.5	82.1	13 900*				29.0
30.0	46.1	77.0	7 700*	49.8	78.5	8 900*	54.9	80.3	10 900*	59.7	81.5	12 900*				30.0
31.0	43.9	76.0	7 100*	47.7	77.6	8 200*	52.9	79.5	10 200*	57.8	80.9	12 100*				31.0
32.0	41.5	74.9	6 600*	45.5	76.6	7 700*	50.9	78.7	9 500*	55.9	80.2	11 300*				32.0
33.0	39.0	73.7	6 200*	43.2	75.6	7 100*	48.8	77.8	8 800*	54.0	79.5	10 600*				33.0
34.0	36.4	72.3	5 700*	40.8	74.4	6 600*	46.7	76.9	8 100*	52.0	78.7	9 900*	59.9	80.6	11 400	34.0
35.0	33.6	70.8	5 300*	38.2	73.1	6 100*	44.4	75.9	7 600*	49.9	77.9	9 300*	58.1	80.0	10 600	35.0
36.0	30.5	69.2	5 000*	35.6	71.8	5 700*	42.1	74.8	7 100*	47.8	77.0	8 700*	56.2	79.3	9 800	36.0
37.0	27.2	67.3	4 600*	32.7	70.2	5 300*	39.6	73.6	6 600*	45.6	76.0	8 000*	54.2	78.6	9 100	37.0
38.0	23.3	65.0	4 300*	29.6	68.5	4 900*	37.0	72.2	6 100*	43.3	74.9	7 500*	52.2	77.8	8 400	38.0
39.0	18.7	62.3	3 600*	26.1	66.5	4 600*	34.3	70.8	5 700*	40.9	73.8	7 000*	50.2	77.0	7 800	39.0
40.0				22.1	64.2	4 200*	31.3	69.2	5 300*	38.4	72.5	6 500*	48.1	76.1	7 200	40.0
42.0							24.3	65.2	4 600*	32.9	69.6	5 600*	43.6	74.1	6 100	42.0
44.0							14.3	59.2	3 300*	26.3	66.0	4 700*	38.8	71.7	5 000	44.0
46.0													33.3	68.9	4 100	46.0
48.0													26.8	65.3	3 200	48.0
50.0													18.2	60.2	2 200*	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

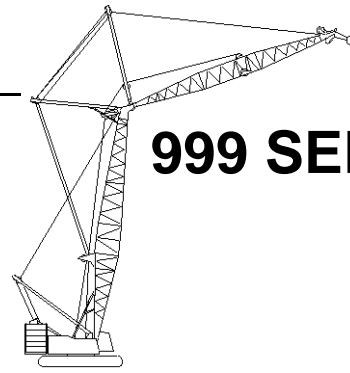
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 48.8m (160 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	74.8	89.2	22 900*													15.2
16.0	73.7	88.9	21 500*													16.0
17.0	72.1	88.6	19 700*													17.0
18.0	70.6	88.2	18 200*													18.0
19.0	69.0	87.9	16 700*	71.7	88.4	19 300*										19.0
20.0	67.5	87.4	15 400*	70.1	88.0	17 700*										20.0
21.0	65.9	87.0	14 300*	68.6	87.6	16 300*										21.0
22.0	64.3	86.5	13 200*	67.0	87.2	15 100*										22.0
23.0	62.6	86.0	12 300*	65.4	86.7	14 000*	69.4	87.6	17 100*							23.0
24.0	61.0	85.4	11 400*	63.8	86.2	13 000*	67.9	87.2	15 800*							24.0
25.0	59.3	84.8	10 600*	62.1	85.7	12 000*	66.3	86.7	14 600*							25.0
26.0	57.6	84.2	9 900*	60.5	85.1	11 200*	64.7	86.2	13 600*							26.0
27.0	55.8	83.5	9 200*	58.8	84.5	10 500*	63.0	85.7	12 600*							27.0
28.0	54.0	82.8	8 600*	57.0	83.9	9 800*	61.4	85.2	11 700*	65.5	86.1	14 100*				28.0
29.0	52.2	82.0	8 100*	55.3	83.2	9 100*	59.7	84.6	10 900*	63.9	85.6	13 100*				29.0
30.0	50.3	81.2	7 600*	53.5	82.4	8 500*	58.0	84.0	10 200*	62.2	85.0	12 200*				30.0
31.0	48.4	80.3	7 000*	51.6	81.7	7 900*	56.2	83.3	9 500*	60.6	84.5	11 400*				31.0
32.0	46.4	79.3	6 600*	49.7	80.8	7 400*	54.5	82.6	8 800*	58.9	83.9	10 600*				32.0
33.0	44.3	78.3	6 100*	47.8	79.9	7 000*	52.6	81.8	8 300*	57.1	83.2	9 900*				33.0
34.0	42.1	77.2	5 700*	45.7	78.9	6 500*	50.8	81.0	7 700*	55.4	82.5	9 200*				34.0
35.0	39.9	76.0	5 200*	43.6	77.9	6 100*	48.8	80.1	7 200*	53.6	81.8	8 600*				35.0
36.0	37.5	74.7	4 800*	41.5	76.8	5 600*	46.8	79.2	6 800*	51.7	81.0	8 000*	59.1	83.0	9 800	36.0
37.0	35.0	73.3	4 400*	39.2	75.5	5 200*	44.8	78.2	6 300*	49.8	80.2	7 500*	57.4	82.3	9 100	37.0
38.0	32.3	71.8	4 100*	36.8	74.2	4 800*	42.7	77.1	5 900*	47.9	79.3	7 000*	55.6	81.7	8 400	38.0
39.0	29.4	70.0	3 700*	34.2	72.8	4 400*	40.4	75.9	5 500*	45.9	78.3	6 600*	53.8	80.9	7 800	39.0
40.0	26.2	68.1	3 400*	31.5	71.2	4 100*	38.1	74.7	5 200*	43.8	77.3	6 200*	52.0	80.1	7 200	40.0
42.0				25.2	67.3	3 500*	33.0	71.8	4 400*	39.3	74.9	5 400*	48.2	78.4	6 100	42.0
44.0				16.7	61.8	2 200*	27.0	68.2	3 700*	34.4	72.2	4 700*	44.1	76.4	5 000	44.0
46.0										28.7	68.8	3 800*	39.6	74.1	4 100	46.0
48.0										21.6	64.3	2 700*	34.7	71.4	3 300	48.0
50.0													29.1	68.1	2 300*	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 51.8m (170 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

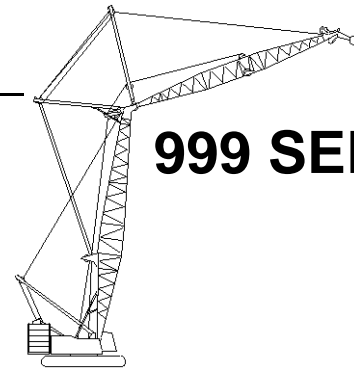
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	52.8	63.5	15 500*																12.2
13.0	47.6	62.7	13 800*																13.0
14.0	40.3	61.6	11 700*	52.8	63.3	15 800*b													14.0
15.0	31.6	60.0	10 300*	46.2	62.4	13 400*													15.0
16.0				38.8	61.2	11 500*													16.0
17.0							50.9	62.8	15 200*										17.0
18.0							44.1	61.8	13 000*										18.0
19.0							36.2	60.4	11 200*										19.0
20.0										48.8	62.0	14 600*							20.0
21.0										41.7	60.9	12 600*							21.0
22.0										33.3	59.5	10 900*							22.0
23.0													57.4	62.2	19 400*b				23.0
24.0													51.4	61.4	16 200*				24.0
25.0													44.6	60.4	13 500*				25.0
26.0													36.9	59.1	11 700*				26.0
27.0													27.1	57.3	10 200*				27.0
28.0																53.2	60.2	17 500*b	28.0
29.0																46.7	59.3	14 400*	29.0
30.0																39.3	58.1	12 300*	30.0

### 51.8m (170 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	61.7	64.6	17 200*b																10.7
11.0	59.8	64.4	16 300*b																11.0
12.0	54.0	63.6	13 400*																12.0
13.0	47.6	62.7	11 200*	58.7	64.1	16 000*													13.0
14.0	40.3	61.6	9 700*	52.8	63.3	13 000*													14.0
15.0	31.6	60.0	8 400*	46.2	62.4	11 000*													15.0
16.0				38.8	61.2	9 500*	57.0	63.6	15 400*b										16.0
17.0							50.9	62.8	12 600*										17.0
18.0							44.1	61.8	10 700*										18.0
19.0							36.2	60.4	9 200*	55.1	62.9	14 600*							19.0
20.0										48.8	62.0	12 100*							20.0
21.0										41.7	60.9	10 300*							21.0
22.0										33.3	59.5	8 900*							22.0
23.0													57.4	62.2	16 100*				23.0
24.0													51.4	61.4	13 400*				24.0
25.0													44.6	60.4	11 100*				25.0
26.0													36.9	59.1	9 600*				26.0
27.0													27.1	57.3	8 300*				27.0
28.0																53.2	60.2	14 500*	28.0
29.0																46.7	59.3	12 000*	29.0
30.0																39.3	58.1	10 200*	30.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

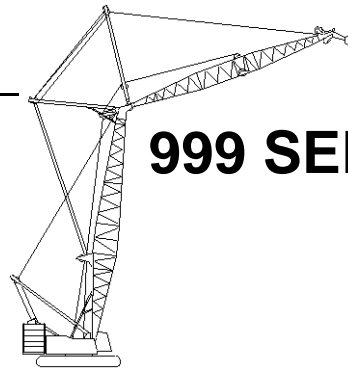
## 51.8m (170 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	61.7	64.6	15 200*b																10.7
11.0	59.8	64.4	14 400*b																11.0
12.0	54.0	63.6	11 800*																12.0
13.0	47.6	62.7	9 800*	58.7	64.1	14 100*													13.0
14.0	40.3	61.6	8 500*	52.8	63.3	11 400*													14.0
15.0	31.6	60.0	7 300*	46.2	62.4	9 700*													15.0
16.0				38.8	61.2	8 300*	57.0	63.6	13 500*										16.0
17.0							50.9	62.8	11 000*	66.3	64.2	20 100*b							17.0
18.0							44.1	61.8	9 300*	60.9	63.6	15 800*							18.0
19.0							36.2	60.4	8 000*	55.1	62.9	12 500*							19.0
20.0										48.8	62.0	10 600*							20.0
21.0										41.7	60.9	9 000*							21.0
22.0										33.3	59.5	7 800*							22.0
23.0													57.4	62.2	14 100*				23.0
24.0													51.4	61.4	11 800*				24.0
25.0													44.6	60.4	9 700*				25.0
26.0													36.9	59.1	8 400*				26.0
27.0													27.1	57.3	7 200*				27.0
28.0																53.2	60.2	12 700*	28.0
29.0																46.7	59.3	10 400*	29.0
30.0																39.3	58.1	8 800*	30.0

REFERENCE ONLY!



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

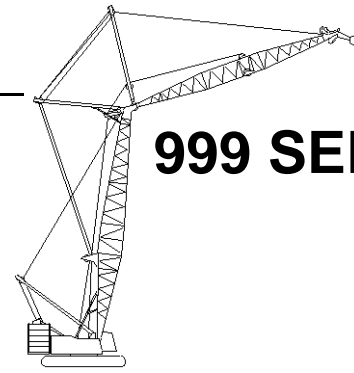
## 51.8m (170 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	67.9	68.0	22 300*b																10.7
11.0	66.5	67.9	21 000*b																11.0
12.0	62.2	67.3	17 300*																12.0
13.0	57.7	66.7	14 400*	65.7	67.6	20 700*													13.0
14.0	53.0	65.9	12 400*	61.3	67.1	16 700*													14.0
15.0	47.9	65.0	10 700*	56.8	66.4	14 100*													15.0
16.0	42.3	63.9	9 400*	52.0	65.6	12 100*	64.4	67.2	19 800*										16.0
17.0	35.9	62.6	8 400*	46.8	64.7	10 600*	60.0	66.6	16 100*										17.0
18.0	28.3	60.8	7 400*	41.1	63.6	9 300*	55.4	65.9	13 600*										18.0
19.0				34.6	62.2	8 200*	50.5	65.1	11 800*	63.0	66.6	18 900*							19.0
20.0							45.2	64.1	10 300*	58.5	66.0	15 500*							20.0
21.0							39.2	62.9	9 100*	53.8	65.2	13 100*							21.0
22.0							32.3	61.4	8 000*	48.8	64.3	11 400*							22.0
23.0										43.3	63.3	10 000*							23.0
24.0										37.1	62.0	8 800*							24.0
25.0										29.8	60.3	7 800*	55.8	64.5	14 500*				25.0
26.0													50.9	63.7	12 300*				26.0
27.0													45.6	62.7	10 700*				27.0
28.0													39.7	61.5	9 400*				28.0
29.0													32.9	60.0	8 300*	57.1	63.3	15 400*	29.0
30.0													24.3	58.0	7 400*	52.3	62.5	13 300*	30.0
31.0																47.2	61.6	11 300*	31.0
32.0																41.5	60.5	9 900*	32.0
33.0																35.0	59.1	8 700*	33.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

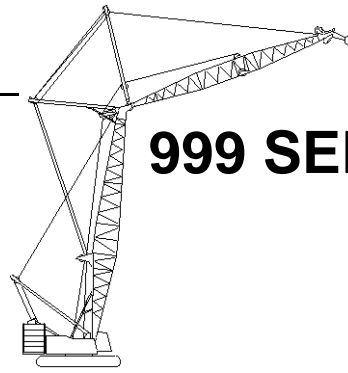
### 51.8m (170 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	61.7	64.6	14 100*																10.7
11.0	59.8	64.4	13 300*																11.0
12.0	54.0	63.6	11 000*																12.0
13.0	47.6	62.7	9 200*	58.7	64.1	13 100*													13.0
14.0	40.3	61.6	7 900*	52.8	63.3	10 600*	68.0	64.8	19 500*										14.0
15.0	31.6	60.0	6 900*	46.2	62.4	9 000*	62.6	64.3	15 300*										15.0
16.0				38.8	61.2	7 800*	57.0	63.6	12 100*										16.0
17.0							50.9	62.8	10 200*	66.3	64.2	18 100*							17.0
18.0							44.1	61.8	8 700*	60.9	63.6	14 400*							18.0
19.0							36.2	60.4	7 500*	55.1	62.9	11 600*							19.0
20.0										48.8	62.0	9 800*							20.0
21.0										41.7	60.9	8 400*							21.0
22.0										33.3	59.5	7 200*							22.0
23.0													57.4	62.2	12 800*				23.0
24.0													51.4	61.4	10 800*				24.0
25.0													44.6	60.4	9 000*				25.0
26.0													36.9	59.1	7 800*				26.0
27.0													27.1	57.3	6 800*				27.0
28.0																53.2	60.2	11 500*	28.0
29.0																46.7	59.3	9 600*	29.0
30.0																39.3	58.1	8 200*	30.0

REFERENCE ONLY!



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

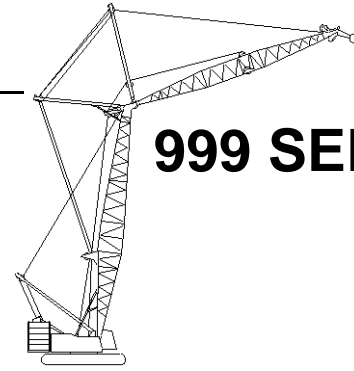
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 51.8m (170 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	67.9	68.0	19 700*																10.7
11.0	66.5	67.9	18 600*																11.0
12.0	62.2	67.3	15 300*																12.0
13.0	57.7	66.7	12 800*	65.7	67.6	18 200*													13.0
14.0	53.0	65.9	11 000*	61.3	67.1	14 800*													14.0
15.0	47.9	65.0	9 600*	56.8	66.4	12 500*													15.0
16.0	42.3	63.9	8 400*	52.0	65.6	10 800*	64.4	67.2	17 400*										16.0
17.0	35.9	62.6	7 400*	46.8	64.7	9 400*	60.0	66.6	14 200*										17.0
18.0	28.3	60.8	6 600*	41.1	63.6	8 300*	55.4	65.9	12 100*										18.0
19.0				34.6	62.2	7 300*	50.5	65.1	10 400*	63.0	66.6	16 500*							19.0
20.0							45.2	64.1	9 100*	58.5	66.0	13 600*							20.0
21.0							39.2	62.9	8 000*	53.8	65.2	11 600*							21.0
22.0							32.3	61.4	7 100*	48.8	64.3	10 000*							22.0
23.0										43.3	63.3	8 800*							23.0
24.0										37.1	62.0	7 800*							24.0
25.0										29.8	60.3	6 900*	55.8	64.5	12 700*				25.0
26.0													50.9	63.7	10 800*				26.0
27.0													45.6	62.7	9 400*				27.0
28.0													39.7	61.5	8 300*				28.0
29.0													32.9	60.0	7 300*	57.1	63.3	13 400*	29.0
30.0													24.3	58.0	6 500*	52.3	62.5	11 500*	30.0
31.0																47.2	61.6	9 900*	31.0
32.0																41.5	60.5	8 700*	32.0
33.0																35.0	59.1	7 700*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

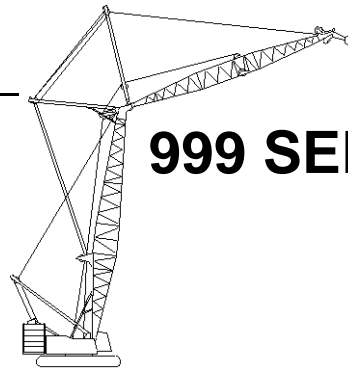
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**51.8m (170 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	71.8	71.3	25 100*																10.7
11.0	70.7	71.2	23 700*																11.0
12.0	67.2	70.8	19 500*																12.0
13.0	63.7	70.3	16 300*	70.0	71.0	23 100*													13.0
14.0	60.1	69.7	14 000*	66.6	70.5	18 900*													14.0
15.0	56.3	69.0	12 200*	63.0	70.0	16 000*													15.0
16.0	52.3	68.2	10 700*	59.4	69.4	13 700*													16.0
17.0	48.1	67.3	9 500*	55.5	68.7	12 000*	65.5	70.1	18 200*										17.0
18.0	43.5	66.3	8 500*	51.5	67.9	10 500*	61.9	69.6	15 600*										18.0
19.0	38.5	65.0	7 600*	47.2	67.0	9 400*	58.2	68.9	13 300*										19.0
20.0	32.8	63.5	6 800*	42.6	65.9	8 300*	54.3	68.2	11 700*	64.4	69.5	17 400*							20.0
21.0	25.9	61.6	6 200*	37.4	64.7	7 500*	50.2	67.4	10 300*	60.7	68.9	15 000*							21.0
22.0				31.6	63.1	6 800*	45.8	66.4	9 100*	57.0	68.3	12 900*							22.0
23.0							41.1	65.3	8 200*	53.0	67.5	11 300*							23.0
24.0							35.8	63.9	7 300*	48.8	66.6	10 000*							24.0
25.0							29.6	62.2	6 600*	44.4	65.6	8 900*							25.0
26.0										39.4	64.4	7 900*	58.5	67.5	13 900*				26.0
27.0										33.9	63.0	7 100*	54.6	66.8	12 200*				27.0
28.0										27.3	61.1	6 500*	50.6	66.0	10 600*				28.0
29.0													46.2	65.0	9 400*				29.0
30.0													41.5	63.9	8 400*				30.0
31.0													36.2	62.6	7 600*	55.8	65.6	12 800*	31.0
32.0													30.1	60.9	6 800*	51.8	64.8	11 200*	32.0
33.0													22.4	58.7	6 100*	47.5	63.9	9 900*	33.0
34.0																42.9	62.8	8 800*	34.0
35.0																37.8	61.6	7 900*	35.0
36.0																32.0	60.0	7 100*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

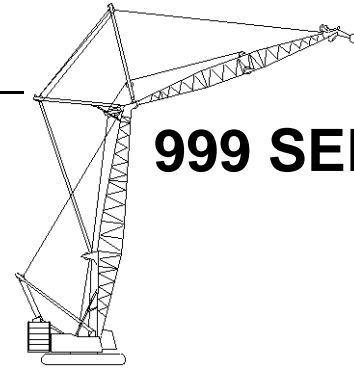
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 51.8m (170 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.5	74.5	26 700*																10.7
11.0	73.6	74.4	26 200*																11.0
12.0	70.7	74.1	24 800*																12.0
13.0	67.8	73.6	22 100*																13.0
14.0	64.8	73.2	18 400*	70.1	73.9	24 900*													14.0
15.0	61.7	72.6	16 000*	67.2	73.4	21 100*													15.0
16.0	58.5	72.0	14 100*	64.2	72.9	18 000*													16.0
17.0	55.3	71.3	12 500*	61.1	72.4	15 800*	69.3	73.4	23 900*										17.0
18.0	51.8	70.5	11 200*	57.9	71.8	13 900*	66.3	73.0	20 400*										18.0
19.0	48.2	69.6	10 100*	54.6	71.0	12 400*	63.3	72.5	17 500*										19.0
20.0	44.4	68.6	9 100*	51.1	70.2	11 100*	60.1	71.9	15 400*										20.0
21.0	40.2	67.4	8 200*	47.5	69.3	9 900*	56.9	71.3	13 600*										21.0
22.0	35.6	66.1	7 500*	43.6	68.3	9 000*	53.6	70.5	12 100*	62.3	71.9	17 100*							22.0
23.0	30.4	64.4	6 800*	39.3	67.1	8 100*	50.0	69.7	10 800*	59.1	71.3	14 900*							23.0
24.0	24.2	62.3	6 200*	34.7	65.7	7 400*	46.3	68.7	9 700*	55.9	70.6	13 200*							24.0
25.0				29.3	63.9	6 700*	42.3	67.6	8 800*	52.4	69.8	11 700*							25.0
26.0							38.0	66.4	8 000*	48.9	68.9	10 600*							26.0
27.0							33.1	64.9	7 300*	45.1	68.0	9 500*							27.0
28.0							27.5	63.0	6 600*	41.0	66.8	8 600*	57.2	69.8	14 100*				28.0
29.0										36.5	65.5	7 800*	53.8	69.1	12 500*				29.0
30.0										31.4	63.9	7 100*	50.3	68.3	11 200*				30.0
31.0										25.4	61.9	6 500*	46.6	67.3	10 100*				31.0
32.0										17.3	59.1	5 900*	42.6	66.3	9 100*				32.0
33.0													38.3	65.0	8 300*				33.0
34.0													33.5	63.5	7 500*	51.4	67.1	11 700*	34.0
35.0													28.0	61.7	6 800*	47.7	66.2	10 500*	35.0
36.0													21.0	59.3	6 200*	43.8	65.2	9 500*	36.0
37.0																39.6	64.0	8 600*	37.0
38.0																35.0	62.6	7 800*	38.0
39.0																29.7	60.9	7 100*	39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 51.8m (170 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

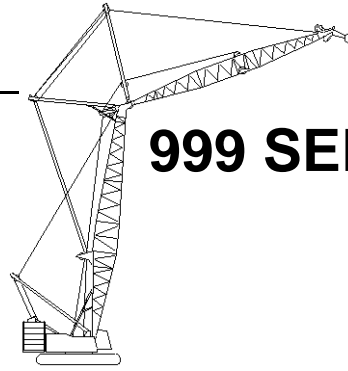
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.7	77.2	26 700*																12.2
13.0	70.7	76.9	24 900*																13.0
14.0	68.2	76.5	22 600*	72.7	77.1	26 300*													14.0
15.0	65.6	76.1	19 700*	70.2	76.7	24 800*													15.0
16.0	62.9	75.6	17 200*	67.7	76.3	22 400*													16.0
17.0	60.2	75.0	15 400*	65.1	75.9	19 200*													17.0
18.0	57.4	74.3	13 800*	62.4	75.3	17 000*													18.0
19.0	54.5	73.6	12 400*	59.7	74.7	15 200*	66.9	75.9	21 400*										19.0
20.0	51.5	72.8	11 300*	56.8	74.1	13 600*	64.3	75.4	18 700*										20.0
21.0	48.3	71.9	10 200*	53.9	73.4	12 300*	61.6	74.9	16 600*										21.0
22.0	45.0	70.9	9 300*	50.9	72.5	11 100*	58.8	74.3	14 800*	66.0	75.3	20 700*							22.0
23.0	41.4	69.8	8 600*	47.7	71.6	10 200*	56.0	73.6	13 400*	63.4	74.8	18 100*							23.0
24.0	37.6	68.5	7 800*	44.3	70.6	9 300*	53.0	72.8	12 100*	60.7	74.2	16 100*							24.0
25.0	33.4	67.0	7 200*	40.7	69.5	8 500*	49.9	72.0	11 000*	57.9	73.6	14 500*							25.0
26.0	28.5	65.3	6 700*	36.8	68.1	7 800*	46.7	71.0	10 000*	55.0	72.9	13 100*							26.0
27.0	22.8	63.0	6 100*	32.5	66.6	7 200*	43.2	70.0	9 100*	52.0	72.1	11 800*							27.0
28.0				27.5	64.8	6 600*	39.6	68.8	8 400*	48.9	71.2	10 700*							28.0
29.0							35.5	67.4	7 700*	45.6	70.3	9 800*	59.0	72.8	15 300*				29.0
30.0							31.0	65.8	7 100*	42.1	69.2	9 000*	56.2	72.2	13 800*				30.0
31.0							25.8	63.8	6 500*	38.3	67.9	8 200*	53.2	71.4	12 500*				31.0
32.0							19.2	61.2	6 000*	34.1	66.5	7 600*	50.2	70.6	11 300*				32.0
33.0										29.5	64.8	7 000*	46.9	69.6	10 300*				33.0
34.0										23.9	62.6	6 500*	43.5	68.6	9 400*				34.0
35.0										16.5	59.7	6 000*	39.8	67.4	8 700*				35.0
36.0													35.9	66.0	8 000*	51.1	69.4	10 900	36.0
37.0													31.4	64.5	7 400*	47.9	68.5	10 200	37.0
38.0													26.3	62.5	6 800*	44.5	67.5	9 600	38.0
39.0													19.8	60.0	6 200*	41.0	66.4	8 900	39.0
40.0																37.1	65.1	8 300*	40.0
42.0																27.9	61.7	7 000*	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



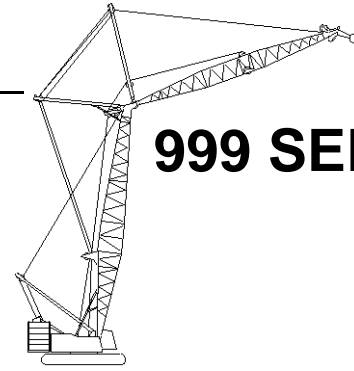
## 999 SERIES 3

### 51.8m (170 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.7	80.4	26 700*																12.2
13.0	73.0	80.2	26 700*																13.0
14.0	70.7	79.8	26 100*																14.0
15.0	68.5	79.4	24 200*																15.0
16.0	66.2	79.0	21 900*	70.3	79.6	25 700*													16.0
17.0	63.8	78.5	19 600*	68.0	79.2	24 300*													17.0
18.0	61.4	77.9	17 700*	65.7	78.8	21 800*													18.0
19.0	59.0	77.3	16 100*	63.4	78.3	19 400*													19.0
20.0	56.5	76.7	14 700*	61.0	77.7	17 600*	67.3	78.8	23 700*										20.0
21.0	53.9	75.9	13 300*	58.5	77.1	16 000*	65.0	78.3	21 300*										21.0
22.0	51.2	75.1	12 200*	56.0	76.4	14 500*	62.7	77.8	19 100*										22.0
23.0	48.4	74.2	11 200*	53.4	75.7	13 300*	60.2	77.2	17 300*	66.6	78.2	23 200*							23.0
24.0	45.4	73.3	10 300*	50.6	74.8	12 100*	57.7	76.6	15 700*	64.3	77.7	20 900*							24.0
25.0	42.3	72.2	9 500*	47.8	73.9	11 100*	55.2	75.9	14 300*	61.9	77.2	18 700*							25.0
26.0	39.0	70.9	8 800*	44.9	72.9	10 300*	52.5	75.1	13 100*	59.4	76.6	16 900*							26.0
27.0	35.5	69.6	8 100*	41.7	71.8	9 500*	49.8	74.3	12 000*	56.9	75.9	15 400*							27.0
28.0	31.5	68.0	7 500*	38.4	70.6	8 800*	46.9	73.3	11 000*	54.4	75.2	14 000*							28.0
29.0	27.0	66.1	7 000*	34.7	69.1	8 100*	43.9	72.3	10 200*	51.7	74.4	12 900*	62.8	76.4	18 500				29.0
30.0	21.7	63.7	6 500*	30.7	67.5	7 500*	40.7	71.2	9 400*	48.9	73.5	11 800*	60.4	75.8	17 400				30.0
31.0				26.1	65.5	7 000*	37.3	69.9	8 700*	46.0	72.6	10 900*	57.9	75.2	16 200				31.0
32.0				20.4	63.1	6 500*	33.5	68.4	8 000*	42.9	71.5	10 000*	55.4	74.5	14 800				32.0
33.0							29.4	66.7	7 400*	39.6	70.3	9 300*	52.8	73.7	13 500*				33.0
34.0							24.5	64.6	6 900*	36.1	69.0	8 600*	50.0	72.9	12 400*				34.0
35.0							18.4	61.8	6 500*	32.3	67.4	8 000*	47.2	71.9	11 400*				35.0
36.0										27.9	65.6	7 400*	44.2	70.9	10 500*				36.0
37.0										22.7	63.3	6 900*	41.0	69.8	9 700*	53.5	72.5	10 200	37.0
38.0										15.9	60.3	6 400*	37.6	68.5	9 000*	50.8	71.7	9 500	38.0
39.0													33.8	67.0	8 300*	48.0	70.8	8 900	39.0
40.0													29.7	65.3	7 800*	45.1	69.8	8 400	40.0
42.0													18.9	60.6	6 700*	38.6	67.5	7 300	42.0
44.0																31.0	64.4	6 300	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

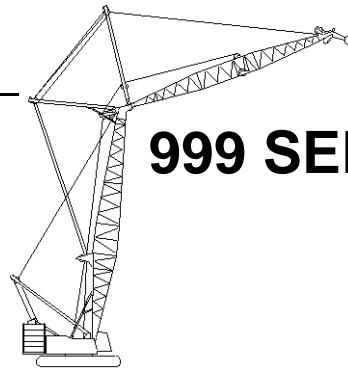
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 51.8m (170 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.7	77.2	26 700*																12.2
13.0	70.7	76.9	23 900*																13.0
14.0	68.2	76.5	20 700*	72.7	77.1	25 900*													14.0
15.0	65.6	76.1	18 100*	70.2	76.7	23 200*													15.0
16.0	62.9	75.6	15 900*	67.7	76.3	20 400*													16.0
17.0	60.2	75.0	14 200*	65.1	75.9	17 700*													17.0
18.0	57.4	74.3	12 700*	62.4	75.3	15 700*													18.0
19.0	54.5	73.6	11 500*	59.7	74.7	14 000*	66.9	75.9	19 800*										19.0
20.0	51.5	72.8	10 400*	56.8	74.1	12 600*	64.3	75.4	17 300*										20.0
21.0	48.3	71.9	9 400*	53.9	73.4	11 300*	61.6	74.9	15 300*										21.0
22.0	45.0	70.9	8 600*	50.9	72.5	10 300*	58.8	74.3	13 700*	66.0	75.3	19 100*							22.0
23.0	41.4	69.8	7 800*	47.7	71.6	9 400*	56.0	73.6	12 300*	63.4	74.8	16 800*							23.0
24.0	37.6	68.5	7 200*	44.3	70.6	8 500*	53.0	72.8	11 100*	60.7	74.2	14 900*							24.0
25.0	33.4	67.0	6 600*	40.7	69.5	7 800*	49.9	72.0	10 100*	57.9	73.6	13 300*							25.0
26.0	28.5	65.3	6 100*	36.8	68.1	7 200*	46.7	71.0	9 200*	55.0	72.9	12 000*							26.0
27.0	22.8	63.0	5 600*	32.5	66.6	6 600*	43.2	70.0	8 400*	52.0	72.1	10 900*							27.0
28.0				27.5	64.8	6 100*	39.6	68.8	7 700*	48.9	71.2	9 900*							28.0
29.0							35.5	67.4	7 100*	45.6	70.3	9 000*	59.0	72.8	14 200*				29.0
30.0							31.0	65.8	6 500*	42.1	69.2	8 300*	56.2	72.2	12 800*				30.0
31.0							25.8	63.8	6 000*	38.3	67.9	7 600*	53.2	71.4	11 500*				31.0
32.0							19.2	61.2	5 500*	34.1	66.5	7 000*	50.2	70.6	10 500*				32.0
33.0										29.5	64.8	6 400*	46.9	69.6	9 500*				33.0
34.0										23.9	62.6	5 900*	43.5	68.6	8 700*				34.0
35.0										16.5	59.7	5 500*	39.8	67.4	8 000*				35.0
36.0													35.9	66.0	7 300*	51.1	69.4	9 500	36.0
37.0													31.4	64.5	6 700*	47.9	68.5	8 800	37.0
38.0													26.3	62.5	6 200*	44.5	67.5	8 100	38.0
39.0													19.8	60.0	5 700*	41.0	66.4	7 500	39.0
40.0																37.1	65.1	6 900	40.0
42.0																27.9	61.7	5 700	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

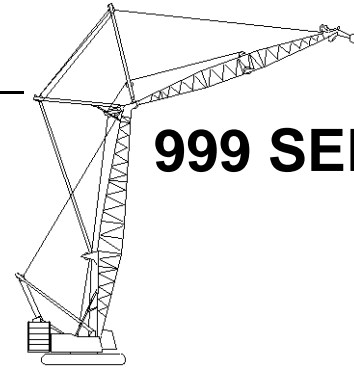
### 51.8m (170 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	74.7	80.4	26 700*																12.2
13.0	73.0	80.2	26 700*																13.0
14.0	70.7	79.8	25 900*																14.0
15.0	68.5	79.4	23 000*																15.0
16.0	66.2	79.0	20 400*	70.3	79.6	25 000*													16.0
17.0	63.8	78.5	18 100*	68.0	79.2	22 700*													17.0
18.0	61.4	77.9	16 300*	65.7	78.8	20 200*													18.0
19.0	59.0	77.3	14 700*	63.4	78.3	17 900*													19.0
20.0	56.5	76.7	13 400*	61.0	77.7	16 100*	67.3	78.8	22 000*										20.0
21.0	53.9	75.9	12 200*	58.5	77.1	14 600*	65.0	78.3	19 700*										21.0
22.0	51.2	75.1	11 100*	56.0	76.4	13 200*	62.7	77.8	17 500*										22.0
23.0	48.4	74.2	10 200*	53.4	75.7	12 100*	60.2	77.2	15 800*	66.6	78.2	21 300*							23.0
24.0	45.4	73.3	9 400*	50.6	74.8	11 100*	57.7	76.6	14 300*	64.3	77.7	19 100*							24.0
25.0	42.3	72.2	8 600*	47.8	73.9	10 100*	55.2	75.9	13 000*	61.9	77.2	17 100*							25.0
26.0	39.0	70.9	8 000*	44.9	72.9	9 300*	52.5	75.1	11 900*	59.4	76.6	15 500*							26.0
27.0	35.5	69.6	7 400*	41.7	71.8	8 600*	49.8	74.3	10 900*	56.9	75.9	14 100*							27.0
28.0	31.5	68.0	6 800*	38.4	70.6	7 900*	46.9	73.3	10 000*	54.4	75.2	12 800*							28.0
29.0	27.0	66.1	6 300*	34.7	69.1	7 400*	43.9	72.3	9 300*	51.7	74.4	11 700*	62.8	76.4	17 100				29.0
30.0	21.7	63.7	5 900*	30.7	67.5	6 800*	40.7	71.2	8 500*	48.9	73.5	10 800*	60.4	75.8	16 000				30.0
31.0				26.1	65.5	6 300*	37.3	69.9	7 900*	46.0	72.6	9 900*	57.9	75.2	14 800				31.0
32.0				20.4	63.1	5 900*	33.5	68.4	7 300*	42.9	71.5	9 200*	55.4	74.5	13 500				32.0
33.0							29.4	66.7	6 800*	39.6	70.3	8 500*	52.8	73.7	12 400*				33.0
34.0							24.5	64.6	6 300*	36.1	69.0	7 800*	50.0	72.9	11 300*				34.0
35.0							18.4	61.8	5 900*	32.3	67.4	7 200*	47.2	71.9	10 400*				35.0
36.0										27.9	65.6	6 700*	44.2	70.9	9 600*				36.0
37.0										22.7	63.3	6 200*	41.0	69.8	8 900*	53.5	72.5	8 800	37.0
38.0										15.9	60.3	5 800*	37.6	68.5	8 200*	50.8	71.7	8 100	38.0
39.0													33.8	67.0	7 600*	48.0	70.8	7 500	39.0
40.0													29.7	65.3	7 000*	45.1	69.8	6 900	40.0
42.0													18.9	60.6	6 100*	38.6	67.5	5 800	42.0
44.0																31.0	64.4	4 800	44.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

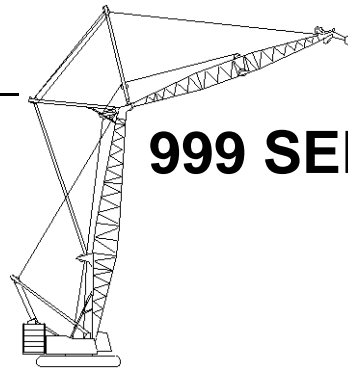
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 51.8m (170 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	72.7	77.2	25 200*																12.2
13.0	70.7	76.9	22 400*																13.0
14.0	68.2	76.5	19 100*	72.7	77.1	25 500*													14.0
15.0	65.6	76.1	16 700*	70.2	76.7	21 800*													15.0
16.0	62.9	75.6	14 700*	67.7	76.3	18 700*													16.0
17.0	60.2	75.0	13 100*	65.1	75.9	16 400*													17.0
18.0	57.4	74.3	11 700*	62.4	75.3	14 500*													18.0
19.0	54.5	73.6	10 500*	59.7	74.7	12 900*	66.9	75.9	18 300*										19.0
20.0	51.5	72.8	9 500*	56.8	74.1	11 600*	64.3	75.4	16 000*										20.0
21.0	48.3	71.9	8 600*	53.9	73.4	10 400*	61.6	74.9	14 200*										21.0
22.0	45.0	70.9	7 900*	50.9	72.5	9 500*	58.8	74.3	12 700*	66.0	75.3	17 700*							22.0
23.0	41.4	69.8	7 200*	47.7	71.6	8 600*	56.0	73.6	11 400*	63.4	74.8	15 500*							23.0
24.0	37.6	68.5	6 600*	44.3	70.6	7 800*	53.0	72.8	10 300*	60.7	74.2	13 800*							24.0
25.0	33.4	67.0	6 100*	40.7	69.5	7 200*	49.9	72.0	9 300*	57.9	73.6	12 400*							25.0
26.0	28.5	65.3	5 600*	36.8	68.1	6 600*	46.7	71.0	8 500*	55.0	72.9	11 100*							26.0
27.0	22.8	63.0	5 200*	32.5	66.6	6 000*	43.2	70.0	7 700*	52.0	72.1	10 100*							27.0
28.0				27.5	64.8	5 500*	39.6	68.8	7 100*	48.9	71.2	9 100*							28.0
29.0							35.5	67.4	6 500*	45.6	70.3	8 400*	59.0	72.8	13 100*				29.0
30.0							31.0	65.8	6 000*	42.1	69.2	7 600*	56.2	72.2	11 800*				30.0
31.0							25.8	63.8	5 500*	38.3	67.9	7 000*	53.2	71.4	10 700*				31.0
32.0							19.2	61.2	5 100*	34.1	66.5	6 400*	50.2	70.6	9 700*				32.0
33.0										29.5	64.8	5 900*	46.9	69.6	8 800*				33.0
34.0										23.9	62.6	5 400*	43.5	68.6	8 000*				34.0
35.0										16.5	59.7	5 000*	39.8	67.4	7 400*				35.0
36.0													35.9	66.0	6 800*	51.1	69.4	8 200	36.0
37.0													31.4	64.5	6 200*	47.9	68.5	7 400	37.0
38.0													26.3	62.5	5 700*	44.5	67.5	6 700	38.0
39.0													19.8	60.0	5 300*	41.0	66.4	6 100	39.0
40.0																37.1	65.1	5 400	40.0
42.0																27.9	61.7	4 300	42.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

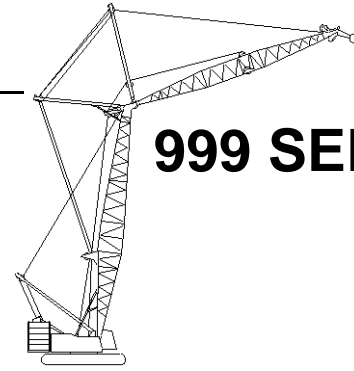
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 51.8m (170 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
12.2	74.7	80.4	26 700*																12.2
13.0	73.0	80.2	25 800*																13.0
14.0	70.7	79.8	24 400*																14.0
15.0	68.5	79.4	21 400*																15.0
16.0	66.2	79.0	18 700*	70.3	79.6	23 800*													16.0
17.0	63.8	78.5	16 700*	68.0	79.2	20 800*													17.0
18.0	61.4	77.9	15 000*	65.7	78.8	18 400*													18.0
19.0	59.0	77.3	13 500*	63.4	78.3	16 500*													19.0
20.0	56.5	76.7	12 200*	61.0	77.7	14 800*	67.3	78.8	20 300*										20.0
21.0	53.9	75.9	11 100*	58.5	77.1	13 400*	65.0	78.3	18 100*										21.0
22.0	51.2	75.1	10 200*	56.0	76.4	12 200*	62.7	77.8	16 200*										22.0
23.0	48.4	74.2	9 300*	53.4	75.7	11 100*	60.2	77.2	14 600*	66.6	78.2	19 600*							23.0
24.0	45.4	73.3	8 600*	50.6	74.8	10 100*	57.7	76.6	13 200*	64.3	77.7	17 600*							24.0
25.0	42.3	72.2	7 900*	47.8	73.9	9 300*	55.2	75.9	12 000*	61.9	77.2	15 800*							25.0
26.0	39.0	70.9	7 200*	44.9	72.9	8 500*	52.5	75.1	11 000*	59.4	76.6	14 200*							26.0
27.0	35.5	69.6	6 700*	41.7	71.8	7 900*	49.8	74.3	10 000*	56.9	75.9	12 900*							27.0
28.0	31.5	68.0	6 200*	38.4	70.6	7 200*	46.9	73.3	9 200*	54.4	75.2	11 800*							28.0
29.0	27.0	66.1	5 700*	34.7	69.1	6 700*	43.9	72.3	8 400*	51.7	74.4	10 800*	62.8	76.4	15 900				29.0
30.0	21.7	63.7	5 300*	30.7	67.5	6 200*	40.7	71.2	7 800*	48.9	73.5	9 900*	60.4	75.8	14 700				30.0
31.0				26.1	65.5	5 800*	37.3	69.9	7 200*	46.0	72.6	9 100*	57.9	75.2	13 600				31.0
32.0				20.4	63.1	5 300*	33.5	68.4	6 700*	42.9	71.5	8 400*	55.4	74.5	12 400				32.0
33.0							29.4	66.7	6 200*	39.6	70.3	7 700*	52.8	73.7	11 400*				33.0
34.0							24.5	64.6	5 700*	36.1	69.0	7 200*	50.0	72.9	10 400*				34.0
35.0							18.4	61.8	5 300*	32.3	67.4	6 600*	47.2	71.9	9 600*				35.0
36.0										27.9	65.6	6 100*	44.2	70.9	8 800*				36.0
37.0										22.7	63.3	5 700*	41.0	69.8	8 200*	53.5	72.5	7 500	37.0
38.0										15.9	60.3	5 300*	37.6	68.5	7 500*	50.8	71.7	6 800	38.0
39.0													33.8	67.0	7 000	48.0	70.8	6 200	39.0
40.0													29.7	65.3	6 400	45.1	69.8	5 600	40.0
42.0													18.9	60.6	5 100	38.6	67.5	4 500	42.0
44.0																31.0	64.4	3 400	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

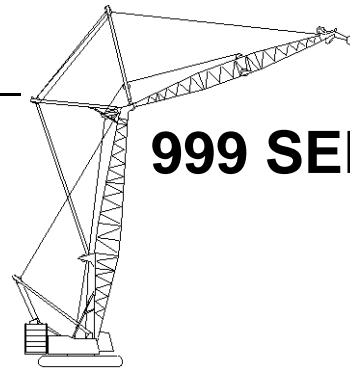
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 51.8m (170 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	73.3	83.1	26 700*																13.7
14.0	72.7	83.0	26 100*																14.0
15.0	70.7	82.7	24 000*																15.0
16.0	68.7	82.3	21 800*	72.4	82.9	25 500*													16.0
17.0	66.7	81.9	19 600*	70.4	82.5	23 700*													17.0
18.0	64.6	81.4	17 600*	68.3	82.1	21 500*													18.0
19.0	62.4	80.9	15 900*	66.3	81.7	19 300*													19.0
20.0	60.3	80.3	14 400*	64.2	81.2	17 400*	69.7	82.1	23 100*										20.0
21.0	58.0	79.7	13 200*	62.0	80.6	15 800*	67.7	81.7	20 900*										21.0
22.0	55.7	79.0	12 100*	59.8	80.0	14 400*	65.6	81.2	18 900*										22.0
23.0	53.4	78.2	11 100*	57.6	79.4	13 100*	63.5	80.7	17 100*										23.0
24.0	51.0	77.4	10 200*	55.3	78.7	12 000*	61.4	80.2	15 500*										24.0
25.0	48.4	76.5	9 400*	52.9	78.0	11 100*	59.2	79.6	14 100*	64.9	80.6	18 400*							25.0
26.0	45.8	75.6	8 700*	50.5	77.1	10 200*	56.9	78.9	13 000*	62.8	80.1	16 700*							26.0
27.0	43.1	74.5	8 000*	47.9	76.2	9 400*	54.6	78.2	11 900*	60.7	79.5	15 200*							27.0
28.0	40.2	73.3	7 400*	45.3	75.2	8 700*	52.2	77.4	10 900*	58.4	78.9	13 900*							28.0
29.0	37.0	72.0	6 900*	42.5	74.2	8 000*	49.7	76.6	10 100*	56.2	78.3	12 800*							29.0
30.0	33.7	70.5	6 400*	39.6	73.0	7 500*	47.2	75.6	9 400*	53.8	77.5	11 700*							30.0
31.0	30.0	68.9	6 000*	36.4	71.6	6 900*	44.5	74.6	8 700*	51.4	76.7	10 800*	61.5	78.7	13 800				31.0
32.0	25.8	66.9	5 600*	33.0	70.1	6 400*	41.6	73.5	8 000*	48.9	75.8	10 000*	59.3	78.1	12 700				32.0
33.0	20.7	64.4	5 200*	29.2	68.4	6 000*	38.6	72.3	7 400*	46.3	74.9	9 300*	57.1	77.5	11 800				33.0
34.0				24.9	66.3	5 600*	35.4	70.9	6 900*	43.6	73.9	8 600*	54.8	76.8	10 900				34.0
35.0				19.6	63.7	5 200*	31.9	69.3	6 500*	40.7	72.7	8 000*	52.4	76.0	10 100				35.0
36.0							28.0	67.5	6 000*	37.6	71.4	7 400*	49.9	75.2	9 300				36.0
37.0							23.4	65.3	5 600*	34.3	70.0	6 900*	47.4	74.3	8 600				37.0
38.0							17.7	62.4	5 200*	30.7	68.3	6 400*	44.7	73.2	7 900				38.0
39.0										26.6	66.4	6 000*	41.9	72.1	7 300	53.1	74.8	6 400	39.0
40.0										21.7	64.0	5 600*	38.9	70.9	6 700	50.7	74.0	5 800	40.0
42.0													32.2	68.0	5 500	45.5	72.1	4 700	42.0
44.0													23.8	64.0	4 400	39.8	69.9	3 700	44.0
46.0																33.2	67.0	2 800	46.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

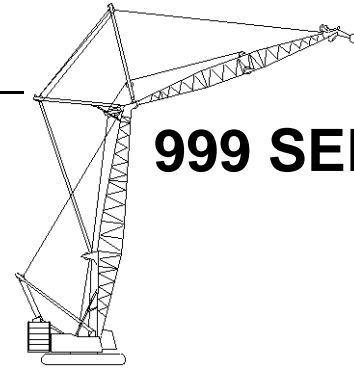
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 51.8m (170 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	74.9	86.3	25 900*													13.7
14.0	74.4	86.2	25 300*													14.0
15.0	72.6	85.9	23 200*													15.0
16.0	70.8	85.6	21 100*													16.0
17.0	68.9	85.2	19 200*	72.2	85.7	22 900*										17.0
18.0	67.0	84.8	17 500*	70.4	85.4	20 800*										18.0
19.0	65.2	84.3	16 000*	68.6	85.0	18 800*										19.0
20.0	63.2	83.8	14 800*	66.7	84.6	17 300*										20.0
21.0	61.3	83.2	13 600*	64.8	84.1	15 800*										21.0
22.0	59.3	82.6	12 500*	62.9	83.6	14 600*	68.0	84.6	18 500*							22.0
23.0	57.2	82.0	11 400*	60.9	83.0	13 500*	66.1	84.1	16 900*							23.0
24.0	55.1	81.3	10 500*	58.9	82.4	12 400*	64.2	83.6	15 500*							24.0
25.0	53.0	80.5	9 600*	56.8	81.7	11 400*	62.3	83.1	14 300*							25.0
26.0	50.8	79.7	8 800*	54.7	81.0	10 400*	60.3	82.5	13 200*	65.5	83.5	16 500*				26.0
27.0	48.5	78.8	8 100*	52.6	80.3	9 600*	58.3	81.9	12 300*	63.6	83.0	15 200*				27.0
28.0	46.1	77.9	7 400*	50.3	79.4	8 800*	56.2	81.2	11 300*	61.6	82.5	14 000*				28.0
29.0	43.6	76.8	6 900*	48.0	78.5	8 100*	54.1	80.5	10 400*	59.6	81.9	12 900*				29.0
30.0	41.0	75.7	6 300*	45.6	77.6	7 500*	51.9	79.7	9 500*	57.6	81.3	12 000*				30.0
31.0	38.3	74.4	5 800*	43.1	76.5	6 900*	49.7	78.9	8 800*	55.5	80.6	11 100*				31.0
32.0	35.4	73.0	5 300*	40.5	75.3	6 300*	47.3	78.0	8 100*	53.4	79.8	10 200*	62.4	81.7	12 700	32.0
33.0	32.2	71.5	4 900*	37.7	74.1	5 900*	44.9	77.0	7 500*	51.2	79.0	9 500*	60.4	81.1	11 900	33.0
34.0	28.7	69.7	4 600*	34.8	72.6	5 400*	42.4	75.9	6 900*	48.9	78.1	8 700*	58.4	80.5	11 000	34.0
35.0	24.7	67.6	4 200*	31.5	71.0	5 000*	39.7	74.7	6 400*	46.6	77.2	8 100*	56.4	79.8	10 200	35.0
36.0	20.0	65.0	3 900*	27.9	69.2	4 600*	36.9	73.3	5 900*	44.1	76.2	7 400*	54.3	79.1	9 400	36.0
37.0				23.8	67.0	4 200*	33.8	71.9	5 400*	41.5	75.1	6 800*	52.1	78.3	8 700	37.0
38.0				18.9	64.3	3 900*	30.5	70.2	5 000*	38.8	73.8	6 300*	49.8	77.5	8 000	38.0
39.0							26.8	68.3	4 600*	35.9	72.5	5 900*	47.5	76.6	7 400	39.0
40.0							22.5	66.0	4 300*	32.8	70.9	5 400*	45.1	75.6	6 800	40.0
42.0										25.5	67.2	4 600*	39.9	73.3	5 600	42.0
44.0										15.0	61.4	3 900*	34.0	70.5	4 600	44.0
46.0													27.1	67.0	3 600*	46.0
48.0													17.6	61.8	2 500*	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

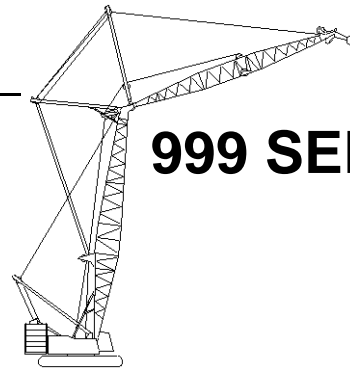
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 51.8m (170 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	73.7	89.1	22 900*													15.2
16.0	72.4	88.8	22 000*													16.0
17.0	70.8	88.5	20 800*													17.0
18.0	69.1	88.1	19 200*													18.0
19.0	67.4	87.6	17 700*	70.4	88.3	20 600*										19.0
20.0	65.6	87.2	16 400*	68.7	87.9	18 900*										20.0
21.0	63.9	86.7	15 200*	67.0	87.4	17 500*										21.0
22.0	62.1	86.2	14 100*	65.3	87.0	16 200*	69.9	87.9	20 200*							22.0
23.0	60.3	85.6	13 200*	63.5	86.5	15 000*	68.2	87.4	18 600*							23.0
24.0	58.5	85.0	12 300*	61.8	85.9	14 000*	66.5	87.0	17 100*							24.0
25.0	56.6	84.3	11 400*	59.9	85.4	13 000*	64.8	86.5	15 900*							25.0
26.0	54.6	83.6	10 500*	58.1	84.7	12 200*	63.0	86.0	14 800*	67.7	86.9	18 100*				26.0
27.0	52.7	82.8	9 700*	56.2	84.1	11 300*	61.2	85.5	13 700*	66.0	86.4	16 800*				27.0
28.0	50.6	82.0	8 900*	54.3	83.3	10 500*	59.4	84.9	12 800*	64.2	85.9	15 500*				28.0
29.0	48.5	81.1	8 300*	52.3	82.6	9 700*	57.5	84.2	12 000*	62.4	85.4	14 500*				29.0
30.0	46.4	80.2	7 700*	50.2	81.7	9 000*	55.6	83.6	11 200*	60.6	84.8	13 500*				30.0
31.0	44.1	79.2	7 100*	48.1	80.8	8 300*	53.7	82.8	10 500*	58.8	84.2	12 600*				31.0
32.0	41.8	78.0	6 500*	45.9	79.9	7 800*	51.7	82.0	9 700*	56.9	83.6	11 700*				32.0
33.0	39.3	76.8	6 000*	43.7	78.8	7 200*	49.6	81.2	9 000*	55.0	82.9	11 000*				33.0
34.0	36.7	75.5	5 500*	41.3	77.7	6 700*	47.5	80.3	8 400*	53.0	82.1	10 300*	61.4	84.0	11 100	34.0
35.0	33.9	74.0	5 100*	38.8	76.5	6 200*	45.3	79.3	7 800*	51.0	81.3	9 600*	59.5	83.5	10 300	35.0
36.0	30.9	72.4	4 700*	36.2	75.1	5 800*	43.0	78.2	7 200*	48.9	80.5	9 000*	57.7	82.8	9 600	36.0
37.0	27.5	70.5	4 400*	33.3	73.6	5 400*	40.6	77.0	6 700*	46.8	79.5	8 400*	55.8	82.1	8 900	37.0
38.0	23.8	68.3	4 100*	30.2	71.9	5 000*	38.0	75.8	6 300*	44.5	78.5	7 800*	53.8	81.4	8 200	38.0
39.0	19.3	65.7	3 700*	26.8	70.0	4 600*	35.3	74.4	5 800*	42.2	77.4	7 200*	51.8	80.6	7 500	39.0
40.0				23.0	67.8	4 300*	32.4	72.8	5 400*	39.7	76.2	6 700*	49.8	79.8	6 900	40.0
42.0							25.7	69.1	4 700*	34.4	73.5	5 700*	45.4	77.9	5 800	42.0
44.0							16.6	63.6	3 700*	28.2	70.0	4 400*	40.7	75.7	4 800	44.0
46.0										20.2	65.4	3 300*	35.5	73.0	3 900	46.0
48.0													29.5	69.8	2 900*	48.0
50.0													22.0	65.4	1 900*	50.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

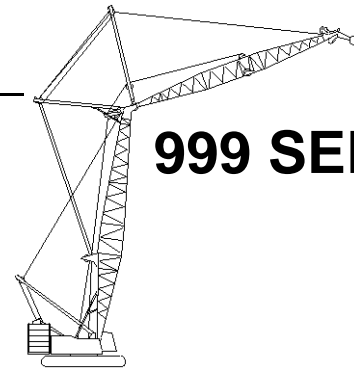
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

## 51.8m (170 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	75.0	92.2	21 100*										15.2
16.0	73.8	92.0	20 400*										16.0
17.0	72.3	91.7	19 500*										17.0
18.0	70.8	91.3	18 200*										18.0
19.0	69.2	91.0	16 900*	72.0	91.5	19 600*							19.0
20.0	67.6	90.5	15 600*	70.5	91.1	18 000*							20.0
21.0	66.1	90.1	14 400*	68.9	90.8	16 700*							21.0
22.0	64.4	89.6	13 400*	67.3	90.3	15 400*							22.0
23.0	62.8	89.1	12 400*	65.7	89.9	14 300*	70.0	90.7	17 700*				23.0
24.0	61.2	88.5	11 500*	64.1	89.4	13 200*	68.4	90.3	16 300*				24.0
25.0	59.5	87.9	10 800*	62.5	88.9	12 300*	66.9	89.9	15 100*				25.0
26.0	57.8	87.3	10 000*	60.8	88.3	11 400*	65.3	89.4	14 000*				26.0
27.0	56.0	86.6	9 300*	59.1	87.7	10 700*	63.6	88.9	13 000*				27.0
28.0	54.2	85.9	8 700*	57.4	87.1	9 900*	62.0	88.4	12 100*	66.3	89.3	14 700*	28.0
29.0	52.4	85.1	8 100*	55.7	86.4	9 300*	60.3	87.8	11 300*	64.7	88.8	13 600*	29.0
30.0	50.5	84.3	7 600*	53.9	85.7	8 700*	58.6	87.2	10 500*	63.1	88.3	12 700*	30.0
31.0	48.6	83.4	7 100*	52.0	84.9	8 100*	56.9	86.6	9 700*	61.5	87.8	11 800*	31.0
32.0	46.6	82.5	6 600*	50.1	84.0	7 600*	55.1	85.9	9 100*	59.8	87.2	11 000*	32.0
33.0	44.5	81.5	6 100*	48.2	83.1	7 100*	53.3	85.1	8 500*	58.1	86.6	10 300*	33.0
34.0	42.4	80.4	5 600*	46.2	82.2	6 600*	51.5	84.3	8 000*	56.3	85.9	9 600*	34.0
35.0	40.1	79.2	5 100*	44.1	81.2	6 200*	49.6	83.5	7 500*	54.5	85.2	9 000*	35.0
36.0	37.8	77.9	4 700*	41.9	80.0	5 700*	47.6	82.6	7 000*	52.7	84.4	8 400*	36.0
37.0	35.3	76.5	4 300*	39.7	78.8	5 300*	45.6	81.6	6 500*	50.8	83.6	7 800*	37.0
38.0	32.6	75.0	4 000*	37.3	77.5	4 800*	43.5	80.5	6 100*	48.9	82.8	7 300*	38.0
39.0	29.7	73.3	3 700*	34.8	76.1	4 400*	41.3	79.4	5 700*	46.9	81.8	6 900*	39.0
40.0	26.6	71.3	3 400*	32.1	74.6	4 100*	39.0	78.2	5 300*	44.9	80.8	6 400*	40.0
42.0				25.9	70.8	3 500*	34.0	75.4	4 500*	40.5	78.6	5 600*	42.0
44.0				17.8	65.6	2 500*	28.2	71.9	3 800*	35.7	75.9	4 500*	44.0
46.0							21.0	67.4	2 700*	30.3	72.7	3 400*	46.0
48.0										23.7	68.7	2 400*	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**54.9m (180 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	Jib		Intermediate Fall	
	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	Ang. Deg.	Elev. m	Capacity Kilograms	
12.2	53.5	66.6	15 900*b																12.2
13.0	48.3	65.9	14 100*																13.0
14.0	41.1	64.7	12 000*	54.1	66.6	16 500*b													14.0
15.0	32.6	63.3	10 400*	47.7	65.7	14 000*													15.0
16.0				40.5	64.5	11 900*													16.0
17.0							53.2	66.1	16 400*b										17.0
18.0							46.7	65.2	14 000*										18.0
19.0							39.3	64.0	11 900*										19.0
20.0										52.2	65.5	16 300*							20.0
21.0										45.6	64.6	13 900*							21.0
22.0										38.0	63.3	11 800*							22.0
23.0																			23.0
24.0																			24.0
25.0													50.0	64.1	15 900*b				25.0
26.0													43.1	63.1	13 300*				26.0
27.0													35.0	61.7	11 500*				27.0
28.0																			28.0
29.0																53.5	63.1	17 900*	29.0
30.0																47.0	62.2	15 100*	30.0
31.0																39.7	61.0	12 700*	31.0
32.0																30.7	59.4	11 100*	32.0

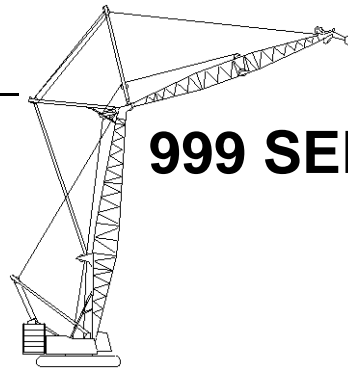
REFERENCE ONLY!



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



## 999 SERIES 3

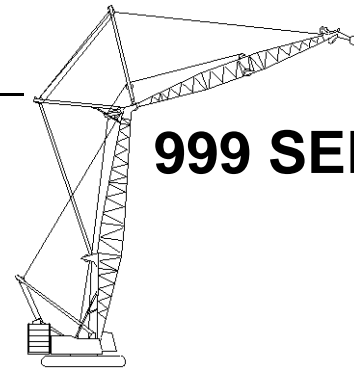
### 54.9m (180 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
10.7	62.3	67.7	17 800*b																10.7	
11.0	60.4	67.5	16 800*b																11.0	
12.0	54.6	66.8	13 800*																12.0	
13.0	48.3	65.9	11 500*																13.0	
14.0	41.1	64.7	9 900*	54.1	66.6	13 800*													14.0	
15.0	32.6	63.3	8 600*	47.7	65.7	11 600*													15.0	
16.0				40.5	64.5	9 900*													16.0	
17.0							53.2	66.1	13 700*										17.0	
18.0							46.7	65.2	11 600*										18.0	
19.0							39.3	64.0	9 800*	58.2	66.3	16 600*b							19.0	
20.0										52.2	65.5	13 400*							20.0	
21.0										45.6	64.6	11 300*							21.0	
22.0										38.0	63.3	9 700*							22.0	
23.0													61.9	65.6	19 700*b				23.0	
24.0													56.2	65.0	16 000*				24.0	
25.0													50.0	64.1	12 900*				25.0	
26.0													43.1	63.1	11 000*				26.0	
27.0													35.0	61.7	9 400*				27.0	
28.0																			28.0	
29.0																	53.5	63.1	14 800*	29.0
30.0																	47.0	62.2	12 500*	30.0
31.0																	39.7	61.0	10 500*	31.0
32.0																	30.7	59.4	9 100*	32.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

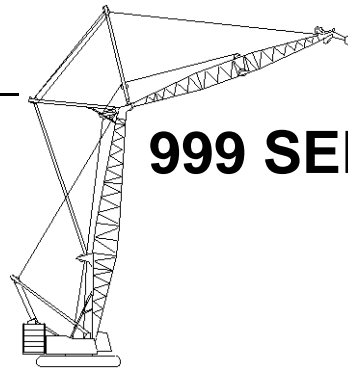
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**54.9m (180 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
10.7	62.3	67.7	15 700*b																10.7	
11.0	60.4	67.5	14 800*b																11.0	
12.0	54.6	66.8	12 100*																12.0	
13.0	48.3	65.9	10 000*	59.9	67.3	14 900*													13.0	
14.0	41.1	64.7	8 600*	54.1	66.6	12 000*													14.0	
15.0	32.6	63.3	7 400*	47.7	65.7	10 000*													15.0	
16.0				40.5	64.5	8 600*	59.1	66.9	14 800*b										16.0	
17.0							53.2	66.1	11 900*										17.0	
18.0							46.7	65.2	10 000*										18.0	
19.0							39.3	64.0	8 500*	58.2	66.3	14 600*b							19.0	
20.0										52.2	65.5	11 800*							20.0	
21.0										45.6	64.6	9 900*							21.0	
22.0										38.0	63.3	8 400*							22.0	
23.0													61.9	65.6	17 400*				23.0	
24.0													56.2	65.0	14 000*				24.0	
25.0													50.0	64.1	11 300*				25.0	
26.0													43.1	63.1	9 600*				26.0	
27.0													35.0	61.7	8 200*				27.0	
28.0																			28.0	
29.0																			29.0	
30.0																	53.5	63.1	12 900*	30.0
31.0																	47.0	62.2	10 900*	31.0
32.0																	39.7	61.0	9 100*	32.0
																	30.7	59.4	7 800*	



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

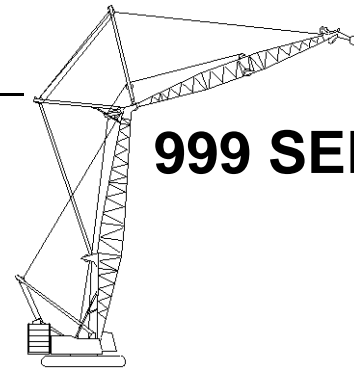
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 54.9m (180 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	68.3	71.1	23 000*b																10.7
11.0	66.9	71.0	21 700*b																11.0
12.0	62.7	70.4	17 700*																12.0
13.0	58.2	69.8	14 700*	66.6	70.8	21 900*													13.0
14.0	53.5	69.1	12 700*	62.3	70.3	17 500*													14.0
15.0	48.4	68.2	11 000*	57.8	69.6	14 700*													15.0
16.0	42.9	67.1	9 600*	53.1	68.9	12 600*	66.0	70.4	21 800*b										16.0
17.0	36.7	65.8	8 500*	48.0	68.0	11 000*	61.6	69.9	17 400*										17.0
18.0	29.2	64.1	7 500*	42.4	66.9	9 600*	57.1	69.2	14 600*										18.0
19.0				36.0	65.5	8 500*	52.3	68.4	12 600*										19.0
20.0							47.2	67.5	10 900*	60.9	69.3	17 400*							20.0
21.0							41.5	66.4	9 600*	56.4	68.6	14 700*							21.0
22.0							35.0	65.0	8 500*	51.5	67.8	12 500*							22.0
23.0										46.3	66.9	10 800*							23.0
24.0										40.5	65.7	9 500*							24.0
25.0										33.9	64.3	8 400*	59.4	68.0	17 000*				25.0
26.0													54.8	67.3	14 200*				26.0
27.0													49.8	66.4	12 100*				27.0
28.0													44.4	65.4	10 500*				28.0
29.0													38.4	64.2	9 300*				29.0
30.0													31.3	62.6	8 200*				30.0
31.0																52.5	65.4	13 600*	31.0
32.0																47.4	64.5	11 700*	32.0
33.0																41.8	63.4	10 100*	33.0
34.0																35.3	62.0	8 900*	34.0
35.0																27.5	60.2	7 900*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

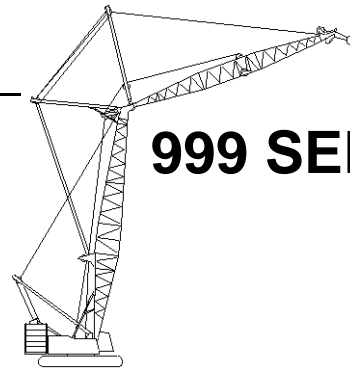
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 54.9m (180 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m		
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall				
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms
10.7	62.3	67.7	14 500*																10.7		
11.0	60.4	67.5	13 700*																11.0		
12.0	54.6	66.8	11 300*																12.0		
13.0	48.3	65.9	9 400*	59.9	67.3	13 800*													13.0		
14.0	41.1	64.7	8 100*	54.1	66.6	11 100*													14.0		
15.0	32.6	63.3	7 100*	47.7	65.7	9 400*													15.0		
16.0				40.5	64.5	8 100*	59.1	66.9	13 600*										16.0		
17.0							53.2	66.1	11 000*										17.0		
18.0							46.7	65.2	9 300*										18.0		
19.0							39.3	64.0	8 000*	58.2	66.3	13 300*							19.0		
20.0										52.2	65.5	10 800*							20.0		
21.0										45.6	64.6	9 100*							21.0		
22.0										38.0	63.3	7 900*							22.0		
23.0													61.9	65.6	15 400*				23.0		
24.0													56.2	65.0	12 600*				24.0		
25.0													50.0	64.1	10 300*				25.0		
26.0													43.1	63.1	8 800*				26.0		
27.0													35.0	61.7	7 600*				27.0		
28.0																			28.0		
29.0																		53.5	63.1	11 700*	29.0
30.0																	47.0	62.2	9 900*	30.0	
31.0																	39.7	61.0	8 400*	31.0	
32.0																	30.7	59.4	7 300*	32.0	



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

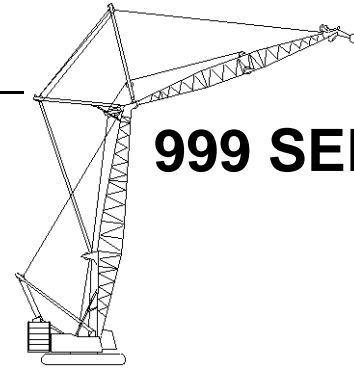
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 54.9m (180 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	68.3	71.1	20 300*																10.7
11.0	66.9	71.0	19 200*																11.0
12.0	62.7	70.4	15 700*																12.0
13.0	58.2	69.8	13 100*	66.6	70.8	19 200*													13.0
14.0	53.5	69.1	11 200*	62.3	70.3	15 400*													14.0
15.0	48.4	68.2	9 700*	57.8	69.6	13 000*													15.0
16.0	42.9	67.1	8 500*	53.1	68.9	11 200*	66.0	70.4	19 000*										16.0
17.0	36.7	65.8	7 500*	48.0	68.0	9 700*	61.6	69.9	15 300*										17.0
18.0	29.2	64.1	6 700*	42.4	66.9	8 500*	57.1	69.2	12 900*										18.0
19.0				36.0	65.5	7 500*	52.3	68.4	11 100*										19.0
20.0							47.2	67.5	9 600*	60.9	69.3	15 200*							20.0
21.0							41.5	66.4	8 400*	56.4	68.6	12 900*							21.0
22.0							35.0	65.0	7 500*	51.5	67.8	10 900*							22.0
23.0										46.3	66.9	9 500*							23.0
24.0										40.5	65.7	8 300*							24.0
25.0										33.9	64.3	7 400*	59.4	68.0	14 700*				25.0
26.0													54.8	67.3	12 300*				26.0
27.0													49.8	66.4	10 600*				27.0
28.0													44.4	65.4	9 200*				28.0
29.0													38.4	64.2	8 100*				29.0
30.0													31.3	62.6	7 200*				30.0
31.0																52.5	65.4	11 800*	31.0
32.0																47.4	64.5	10 100*	32.0
33.0																41.8	63.4	8 800*	33.0
34.0																35.3	62.0	7 800*	34.0
35.0																27.5	60.2	6 900*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**54.9m (180 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib**

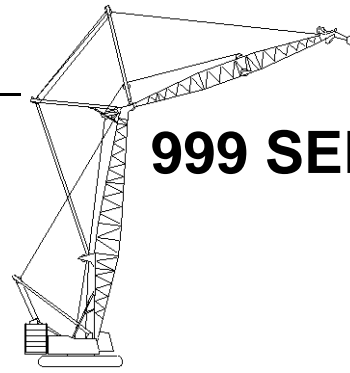
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m		
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall				
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms
10.7	72.1	74.4	25 900*																10.7		
11.0	71.0	74.3	24 400*																11.0		
12.0	67.6	73.8	20 000*																12.0		
13.0	64.1	73.4	16 600*	70.7	74.1	23 600*													13.0		
14.0	60.5	72.8	14 300*	67.3	73.7	19 800*													14.0		
15.0	56.7	72.1	12 400*	63.8	73.2	16 700*													15.0		
16.0	52.7	71.4	10 900*	60.1	72.6	14 300*													16.0		
17.0	48.5	70.5	9 600*	56.4	71.9	12 400*	66.8	73.3	19 700*										17.0		
18.0	44.0	69.4	8 600*	52.4	71.2	10 900*	63.3	72.8	16 700*										18.0		
19.0	39.1	68.2	7 700*	48.1	70.3	9 600*	59.6	72.2	14 100*										19.0		
20.0	33.4	66.8	6 900*	43.6	69.2	8 600*	55.8	71.5	12 300*	66.2	72.8	19 300*							20.0		
21.0	26.7	64.9	6 200*	38.6	68.0	7 700*	51.8	70.7	10 800*	62.7	72.2	16 400*							21.0		
22.0				32.9	66.5	6 900*	47.5	69.8	9 600*	59.0	71.6	14 000*							22.0		
23.0							42.9	68.7	8 600*	55.1	70.9	12 200*							23.0		
24.0							37.8	67.5	7 700*	51.1	70.1	10 700*							24.0		
25.0							32.0	65.9	6 900*	46.8	69.2	9 500*							25.0		
26.0										42.1	68.1	8 500*	61.4	71.0	15 800*				26.0		
27.0										36.9	66.8	7 600*	57.7	70.3	13 700*				27.0		
28.0										30.9	65.2	6 800*	53.8	69.6	11 800*				28.0		
29.0													49.7	68.7	10 500*				29.0		
30.0													45.2	67.7	9 300*				30.0		
31.0													40.4	66.6	8 300*				31.0		
32.0													35.0	65.2	7 400*	56.0	68.5	12 900*	32.0		
33.0													28.6	63.4	6 700*	51.9	67.7	11 400*	33.0		
34.0																47.7	66.8	10 100*	34.0		
35.0																		43.1	65.7	8 900*	35.0
36.0																		38.0	64.5	8 000*	36.0
37.0																		32.3	63.0	7 200*	37.0
38.0																		25.3	61.0	6 500*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



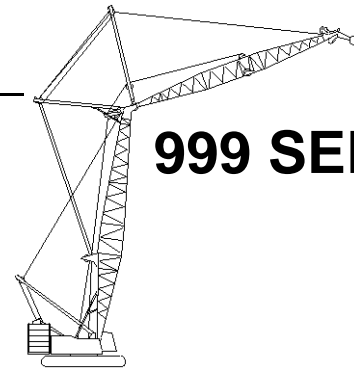
## 999 SERIES 3

### 54.9m (180 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	74.8	77.6	26 700*																10.7
11.0	73.9	77.5	26 400*																11.0
12.0	71.0	77.1	25 300*																12.0
13.0	68.1	76.7	22 700*																13.0
14.0	65.1	76.3	18 800*	70.7	77.0	25 700*													14.0
15.0	62.0	75.7	16 300*	67.8	76.6	21 900*													15.0
16.0	58.9	75.1	14 400*	64.8	76.1	18 800*													16.0
17.0	55.6	74.4	12 700*	61.8	75.6	16 300*	70.3	76.6	25 700*										17.0
18.0	52.2	73.7	11 400*	58.6	74.9	14 400*	67.4	76.2	21 800*										18.0
19.0	48.6	72.8	10 200*	55.3	74.2	12 700*	64.4	75.7	18 600*										19.0
20.0	44.8	71.8	9 200*	51.9	73.5	11 400*	61.3	75.2	16 200*										20.0
21.0	40.7	70.6	8 300*	48.3	72.6	10 200*	58.1	74.5	14 300*										21.0
22.0	36.1	69.3	7 600*	44.4	71.6	9 200*	54.8	73.8	12 700*	63.9	75.2	18 600*							22.0
23.0	31.0	67.7	6 900*	40.3	70.4	8 300*	51.4	73.0	11 300*	60.8	74.6	16 100*							23.0
24.0	24.9	65.6	6 300*	35.7	69.0	7 600*	47.7	72.1	10 200*	57.6	74.0	14 100*							24.0
25.0				30.5	67.4	6 900*	43.8	71.1	9 200*	54.3	73.2	12 600*							25.0
26.0							39.6	69.9	8 300*	50.8	72.4	11 300*							26.0
27.0							35.0	68.5	7 500*	47.1	71.5	10 100*							27.0
28.0							29.7	66.8	6 900*	43.2	70.4	9 100*	59.7	73.3	15 700*				28.0
29.0										38.9	69.2	8 300*	56.5	72.6	13 800*				29.0
30.0										34.2	67.8	7 500*	53.1	71.9	12 300*				30.0
31.0										28.7	66.0	6 900*	49.6	71.0	11 000*				31.0
32.0										22.0	63.7	6 300*	45.8	70.1	9 900*				32.0
33.0													41.8	69.0	9 000*				33.0
34.0													37.4	67.7	8 100*	55.0	70.8	11 800	34.0
35.0													32.4	66.1	7 400*	51.5	70.0	11 100	35.0
36.0													26.6	64.2	6 800*	47.9	69.1	10 300	36.0
37.0																44.0	68.1	9 600	37.0
38.0																39.8	66.9	8 700	38.0
39.0																35.2	65.5	7 900*	39.0
40.0																29.9	63.8	7 200*	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

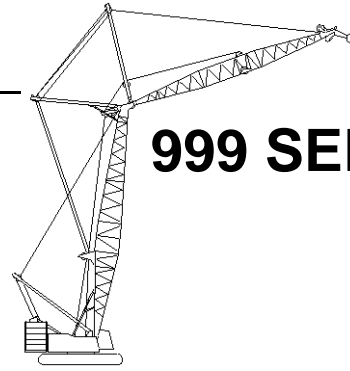
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 54.9m (180 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.0	80.3	26 700*																12.2
13.0	71.0	80.0	25 100*																13.0
14.0	68.4	79.6	23 000*	73.3	80.2	26 500*													14.0
15.0	65.9	79.2	20 100*	70.8	79.9	25 600*													15.0
16.0	63.2	78.7	17 500*	68.2	79.5	23 400*													16.0
17.0	60.5	78.1	15 600*	65.6	79.0	19 900*													17.0
18.0	57.7	77.5	14 000*	63.0	78.5	17 500*													18.0
19.0	54.8	76.7	12 600*	60.2	77.9	15 600*	67.8	79.1	22 700*										19.0
20.0	51.8	76.0	11 400*	57.4	77.3	14 000*	65.2	78.6	19 700*										20.0
21.0	48.6	75.1	10 300*	54.5	76.6	12 600*	62.6	78.1	17 400*										21.0
22.0	45.3	74.1	9 400*	51.5	75.8	11 400*	59.8	77.5	15 500*										22.0
23.0	41.8	73.0	8 600*	48.4	74.9	10 400*	57.0	76.9	13 900*	64.8	78.1	19 600*							23.0
24.0	38.0	71.7	7 900*	45.0	73.9	9 500*	54.1	76.1	12 600*	62.1	77.5	17 400*							24.0
25.0	33.8	70.3	7 300*	41.5	72.8	8 700*	51.1	75.3	11 400*	59.4	76.9	15 400*							25.0
26.0	29.1	68.5	6 700*	37.7	71.5	8 000*	47.9	74.4	10 400*	56.6	76.3	13 900*							26.0
27.0	23.5	66.4	6 200*	33.4	70.0	7 300*	44.5	73.4	9 500*	53.6	75.5	12 500*							27.0
28.0				28.6	68.2	6 700*	41.0	72.3	8 700*	50.6	74.7	11 400*							28.0
29.0							37.1	71.0	7 900*	47.4	73.8	10 300*	61.2	76.3	16 900*				29.0
30.0							32.8	69.4	7 300*	44.0	72.8	9 400*	58.4	75.6	15 200*				30.0
31.0							27.9	67.6	6 700*	40.3	71.6	8 700*	55.6	74.9	13 600*				31.0
32.0							21.9	65.3	6 200*	36.4	70.3	7 900*	52.6	74.2	12 300*				32.0
33.0										32.0	68.7	7 300*	49.5	73.3	11 200*				33.0
34.0										27.0	66.8	6 800*	46.2	72.4	10 200*				34.0
35.0										20.8	64.4	6 200*	42.8	71.3	9 300*				35.0
36.0													39.0	70.1	8 600*	54.2	73.1	10 600	36.0
37.0													35.0	68.7	7 900*	51.2	72.3	9 900	37.0
38.0													30.4	67.0	7 300*	48.0	71.4	9 300	38.0
39.0													25.1	65.0	6 700*	44.7	70.4	8 700	39.0
40.0																41.1	69.3	8 100	40.0
42.0																33.0	66.5	7 000	42.0
44.0																22.2	62.4	6 000	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

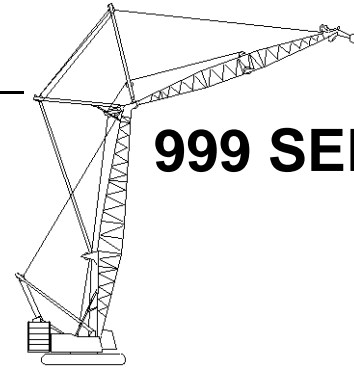
**54.9m (180 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.0	83.5	26 700*																12.2
13.0	73.2	83.3	26 700*																13.0
14.0	71.0	82.9	26 200*																14.0
15.0	68.7	82.5	24 400*																15.0
16.0	66.4	82.1	22 200*	70.8	82.7	26 100*													16.0
17.0	64.1	81.6	19 800*	68.5	82.3	25 000*													17.0
18.0	61.7	81.0	17 900*	66.2	81.9	22 400*													18.0
19.0	59.3	80.4	16 300*	63.9	81.4	19 900*													19.0
20.0	56.7	79.8	14 800*	61.5	80.9	18 000*	68.2	82.0	24 900*										20.0
21.0	54.2	79.1	13 500*	59.0	80.3	16 300*	65.9	81.5	22 200*										21.0
22.0	51.5	78.3	12 300*	56.5	79.6	14 800*	63.5	81.0	19 900*										22.0
23.0	48.7	77.4	11 300*	53.9	78.9	13 500*	61.1	80.5	18 100*										23.0
24.0	45.8	76.4	10 400*	51.2	78.1	12 400*	58.7	79.9	16 300*										24.0
25.0	42.7	75.3	9 600*	48.4	77.2	11 400*	56.2	79.2	14 800*	63.1	80.5	20 000*							25.0
26.0	39.4	74.1	8 800*	45.5	76.2	10 400*	53.5	78.4	13 500*	60.7	79.9	18 000*							26.0
27.0	35.9	72.8	8 200*	42.4	75.1	9 600*	50.8	77.6	12 400*	58.3	79.3	16 300*							27.0
28.0	32.0	71.2	7 600*	39.1	73.9	8 900*	48.0	76.7	11 400*	55.7	78.6	14 800*							28.0
29.0	27.5	69.3	7 000*	35.5	72.5	8 200*	45.1	75.7	10 500*	53.1	77.9	13 500*							29.0
30.0	22.3	67.1	6 600*	31.6	70.9	7 600*	41.9	74.6	9 700*	50.4	77.0	12 400*							30.0
31.0				27.1	69.0	7 100*	38.6	73.4	8 900*	47.5	76.1	11 400*	59.9	78.6	16 000				31.0
32.0				21.8	66.7	6 600*	35.0	72.0	8 300*	44.6	75.1	10 500*	57.4	78.0	15 100				32.0
33.0							31.0	70.4	7 700*	41.4	74.0	9 700*	54.8	77.3	14 200				33.0
34.0							26.4	68.4	7 100*	38.0	72.7	9 000*	52.2	76.5	13 300				34.0
35.0							20.9	66.0	6 600*	34.3	71.3	8 300*	49.4	75.6	12 300				35.0
36.0										30.3	69.6	7 700*	46.5	74.7	11 300*				36.0
37.0										25.6	67.6	7 200*	43.5	73.6	10 400*	56.3	76.2	9 800	37.0
38.0										19.8	65.0	6 700*	40.3	72.5	9 600*	53.7	75.4	9 200	38.0
39.0													36.8	71.1	8 900*	51.0	74.6	8 600	39.0
40.0													33.0	69.6	8 300*	48.1	73.7	8 000	40.0
42.0													23.8	65.7	7 100*	42.1	71.6	7 000	42.0
44.0																35.1	69.0	6 100	44.0
46.0																26.6	65.5	5 200	46.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

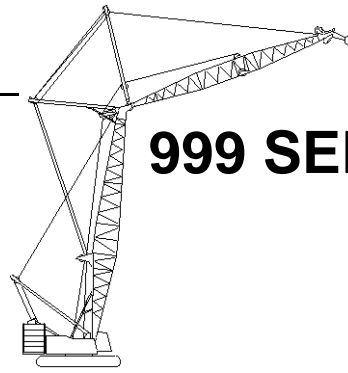
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 54.9m (180 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.0	80.3	26 700*																12.2
13.0	71.0	80.0	24 200*																13.0
14.0	68.4	79.6	21 100*	73.3	80.2	26 100*													14.0
15.0	65.9	79.2	18 400*	70.8	79.9	23 900*													15.0
16.0	63.2	78.7	16 200*	68.2	79.5	21 300*													16.0
17.0	60.5	78.1	14 400*	65.6	79.0	18 300*													17.0
18.0	57.7	77.5	12 900*	63.0	78.5	16 200*													18.0
19.0	54.8	76.7	11 600*	60.2	77.9	14 400*	67.8	79.1	21 000*										19.0
20.0	51.8	76.0	10 500*	57.4	77.3	12 900*	65.2	78.6	18 200*										20.0
21.0	48.6	75.1	9 500*	54.5	76.6	11 600*	62.6	78.1	16 100*										21.0
22.0	45.3	74.1	8 700*	51.5	75.8	10 500*	59.8	77.5	14 400*										22.0
23.0	41.8	73.0	7 900*	48.4	74.9	9 500*	57.0	76.9	12 900*	64.8	78.1	18 000*							23.0
24.0	38.0	71.7	7 300*	45.0	73.9	8 700*	54.1	76.1	11 600*	62.1	77.5	16 000*							24.0
25.0	33.8	70.3	6 700*	41.5	72.8	7 900*	51.1	75.3	10 500*	59.4	76.9	14 200*							25.0
26.0	29.1	68.5	6 100*	37.7	71.5	7 300*	47.9	74.4	9 600*	56.6	76.3	12 800*							26.0
27.0	23.5	66.4	5 700*	33.4	70.0	6 700*	44.5	73.4	8 700*	53.6	75.5	11 500*							27.0
28.0				28.6	68.2	6 200*	41.0	72.3	8 000*	50.6	74.7	10 500*							28.0
29.0							37.1	71.0	7 300*	47.4	73.8	9 500*	61.2	76.3	15 600*				29.0
30.0							32.8	69.4	6 700*	44.0	72.8	8 700*	58.4	75.6	14 000*				30.0
31.0							27.9	67.6	6 200*	40.3	71.6	8 000*	55.6	74.9	12 500*				31.0
32.0							21.9	65.3	5 700*	36.4	70.3	7 300*	52.6	74.2	11 400*				32.0
33.0										32.0	68.7	6 700*	49.5	73.3	10 300*				33.0
34.0										27.0	66.8	6 200*	46.2	72.4	9 400*				34.0
35.0										20.8	64.4	5 700*	42.8	71.3	8 600*				35.0
36.0													39.0	70.1	7 900*	54.2	73.1	9 200	36.0
37.0													35.0	68.7	7 300*	51.2	72.3	8 500	37.0
38.0													30.4	67.0	6 700*	48.0	71.4	7 800	38.0
39.0													25.1	65.0	6 100*	44.7	70.4	7 200	39.0
40.0																41.1	69.3	6 600	40.0
42.0																33.0	66.5	5 500	42.0
44.0																22.2	62.4	4 400	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

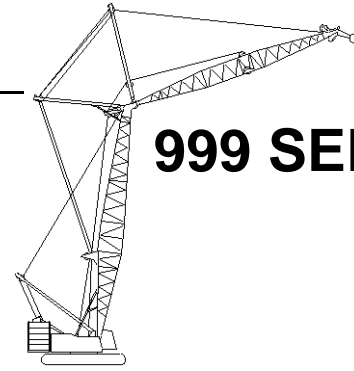
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 54.9m (180 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.0	83.5	26 700*																12.2
13.0	73.2	83.3	26 700*																13.0
14.0	71.0	82.9	26 000*																14.0
15.0	68.7	82.5	23 300*																15.0
16.0	66.4	82.1	20 800*	70.8	82.7	25 400*													16.0
17.0	64.1	81.6	18 400*	68.5	82.3	23 500*													17.0
18.0	61.7	81.0	16 500*	66.2	81.9	20 800*													18.0
19.0	59.3	80.4	14 900*	63.9	81.4	18 400*													19.0
20.0	56.7	79.8	13 500*	61.5	80.9	16 500*	68.2	82.0	23 200*										20.0
21.0	54.2	79.1	12 300*	59.0	80.3	14 900*	65.9	81.5	20 600*										21.0
22.0	51.5	78.3	11 200*	56.5	79.6	13 600*	63.5	81.0	18 400*										22.0
23.0	48.7	77.4	10 300*	53.9	78.9	12 400*	61.1	80.5	16 500*										23.0
24.0	45.8	76.4	9 500*	51.2	78.1	11 300*	58.7	79.9	15 000*										24.0
25.0	42.7	75.3	8 700*	48.4	77.2	10 300*	56.2	79.2	13 600*	63.1	80.5	18 300*							25.0
26.0	39.4	74.1	8 000*	45.5	76.2	9 500*	53.5	78.4	12 400*	60.7	79.9	16 400*							26.0
27.0	35.9	72.8	7 400*	42.4	75.1	8 700*	50.8	77.6	11 300*	58.3	79.3	14 900*							27.0
28.0	32.0	71.2	6 900*	39.1	73.9	8 100*	48.0	76.7	10 400*	55.7	78.6	13 500*							28.0
29.0	27.5	69.3	6 400*	35.5	72.5	7 500*	45.1	75.7	9 500*	53.1	77.9	12 400*							29.0
30.0	22.3	67.1	5 900*	31.6	70.9	6 900*	41.9	74.6	8 800*	50.4	77.0	11 300*							30.0
31.0				27.1	69.0	6 400*	38.6	73.4	8 100*	47.5	76.1	10 400*	59.9	78.6	14 600				31.0
32.0				21.8	66.7	5 900*	35.0	72.0	7 500*	44.6	75.1	9 600*	57.4	78.0	13 700				32.0
33.0							31.0	70.4	7 000*	41.4	74.0	8 800*	54.8	77.3	12 700				33.0
34.0							26.4	68.4	6 500*	38.0	72.7	8 200*	52.2	76.5	11 900				34.0
35.0							20.9	66.0	6 000*	34.3	71.3	7 600*	49.4	75.6	11 100				35.0
36.0										30.3	69.6	7 000*	46.5	74.7	10 300				36.0
37.0										25.6	67.6	6 500*	43.5	73.6	9 500*	56.3	76.2	8 400	37.0
38.0										19.8	65.0	6 000*	40.3	72.5	8 800*	53.7	75.4	7 800	38.0
39.0													36.8	71.1	8 100*	51.0	74.6	7 200	39.0
40.0													33.0	69.6	7 500*	48.1	73.7	6 600	40.0
42.0													23.8	65.7	6 400	42.1	71.6	5 500	42.0
44.0																35.1	69.0	4 600	44.0
46.0																26.6	65.5	3 700	46.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

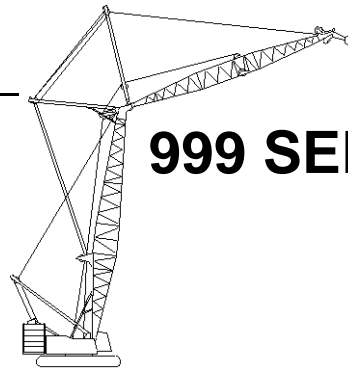
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 54.9m (180 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.0	80.3	25 800*																12.2
13.0	71.0	80.0	22 800*																13.0
14.0	68.4	79.6	19 400*	73.3	80.2	25 800*													14.0
15.0	65.9	79.2	16 900*	70.8	79.9	22 500*													15.0
16.0	63.2	78.7	14 900*	68.2	79.5	19 500*													16.0
17.0	60.5	78.1	13 300*	65.6	79.0	17 000*													17.0
18.0	57.7	77.5	11 900*	63.0	78.5	15 000*													18.0
19.0	54.8	76.7	10 700*	60.2	77.9	13 300*	67.8	79.1	19 400*										19.0
20.0	51.8	76.0	9 700*	57.4	77.3	11 900*	65.2	78.6	16 900*										20.0
21.0	48.6	75.1	8 800*	54.5	76.6	10 700*	62.6	78.1	14 900*										21.0
22.0	45.3	74.1	8 000*	51.5	75.8	9 700*	59.8	77.5	13 300*										22.0
23.0	41.8	73.0	7 300*	48.4	74.9	8 800*	57.0	76.9	11 900*	64.8	78.1	16 700*							23.0
24.0	38.0	71.7	6 600*	45.0	73.9	8 000*	54.1	76.1	10 700*	62.1	77.5	14 900*							24.0
25.0	33.8	70.3	6 100*	41.5	72.8	7 300*	51.1	75.3	9 700*	59.4	76.9	13 200*							25.0
26.0	29.1	68.5	5 600*	37.7	71.5	6 700*	47.9	74.4	8 800*	56.6	76.3	11 900*							26.0
27.0	23.5	66.4	5 200*	33.4	70.0	6 200*	44.5	73.4	8 000*	53.6	75.5	10 700*							27.0
28.0				28.6	68.2	5 700*	41.0	72.3	7 300*	50.6	74.7	9 700*							28.0
29.0							37.1	71.0	6 700*	47.4	73.8	8 800*	61.2	76.3	14 400*				29.0
30.0							32.8	69.4	6 200*	44.0	72.8	8 000*	58.4	75.6	13 000*				30.0
31.0							27.9	67.6	5 700*	40.3	71.6	7 400*	55.6	74.9	11 600*				31.0
32.0							21.9	65.3	5 200*	36.4	70.3	6 800*	52.6	74.2	10 500*				32.0
33.0										32.0	68.7	6 200*	49.5	73.3	9 500*				33.0
34.0										27.0	66.8	5 700*	46.2	72.4	8 700*				34.0
35.0										20.8	64.4	5 200*	42.8	71.3	8 000*				35.0
36.0													39.0	70.1	7 300*	54.2	73.1	7 900	36.0
37.0													35.0	68.7	6 700*	51.2	72.3	7 200	37.0
38.0													30.4	67.0	6 100*	48.0	71.4	6 500	38.0
39.0													25.1	65.0	5 600*	44.7	70.4	5 800	39.0
40.0																41.1	69.3	5 200	40.0
42.0																33.0	66.5	4 100	42.0
44.0																22.2	62.4	3 000	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

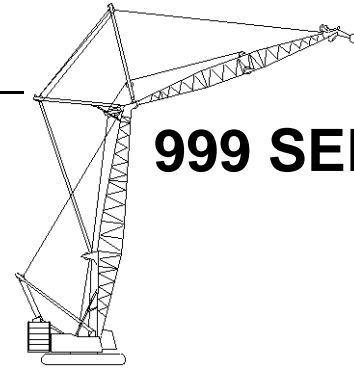
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 54.9m (180 Ft.) Boom, 61.0m (200 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.0	83.5	26 700*																12.2
13.0	73.2	83.3	26 100*																13.0
14.0	71.0	82.9	24 900*																14.0
15.0	68.7	82.5	21 800*																15.0
16.0	66.4	82.1	19 000*	70.8	82.7	24 400*													16.0
17.0	64.1	81.6	16 900*	68.5	82.3	21 400*													17.0
18.0	61.7	81.0	15 100*	66.2	81.9	19 000*													18.0
19.0	59.3	80.4	13 600*	63.9	81.4	16 900*													19.0
20.0	56.7	79.8	12 400*	61.5	80.9	15 200*	68.2	82.0	21 300*										20.0
21.0	54.2	79.1	11 300*	59.0	80.3	13 700*	65.9	81.5	19 000*										21.0
22.0	51.5	78.3	10 300*	56.5	79.6	12 400*	63.5	81.0	16 900*										22.0
23.0	48.7	77.4	9 400*	53.9	78.9	11 300*	61.1	80.5	15 200*										23.0
24.0	45.8	76.4	8 600*	51.2	78.1	10 300*	58.7	79.9	13 700*										24.0
25.0	42.7	75.3	7 900*	48.4	77.2	9 400*	56.2	79.2	12 500*	63.1	80.5	16 800*							25.0
26.0	39.4	74.1	7 300*	45.5	76.2	8 700*	53.5	78.4	11 400*	60.7	79.9	15 100*							26.0
27.0	35.9	72.8	6 700*	42.4	75.1	8 000*	50.8	77.6	10 400*	58.3	79.3	13 700*							27.0
28.0	32.0	71.2	6 200*	39.1	73.9	7 400*	48.0	76.7	9 500*	55.7	78.6	12 500*							28.0
29.0	27.5	69.3	5 800*	35.5	72.5	6 800*	45.1	75.7	8 800*	53.1	77.9	11 300*							29.0
30.0	22.3	67.1	5 400*	31.6	70.9	6 300*	41.9	74.6	8 100*	50.4	77.0	10 400*							30.0
31.0				27.1	69.0	5 800*	38.6	73.4	7 400*	47.5	76.1	9 500*	59.9	78.6	13 300				31.0
32.0				21.8	66.7	5 400*	35.0	72.0	6 800*	44.6	75.1	8 800*	57.4	78.0	12 300				32.0
33.0							31.0	70.4	6 300*	41.4	74.0	8 100*	54.8	77.3	11 400				33.0
34.0							26.4	68.4	5 900*	38.0	72.7	7 500*	52.2	76.5	10 500				34.0
35.0							20.9	66.0	5 500*	34.3	71.3	6 900*	49.4	75.6	9 700				35.0
36.0										30.3	69.6	6 400*	46.5	74.7	8 900				36.0
37.0										25.6	67.6	5 900*	43.5	73.6	8 200	56.3	76.2	7 200	37.0
38.0										19.8	65.0	5 500*	40.3	72.5	7 500	53.7	75.4	6 600	38.0
39.0													36.8	71.1	6 800	51.0	74.6	5 900	39.0
40.0													33.0	69.6	6 200	48.1	73.7	5 400	40.0
42.0													23.8	65.7	5 000	42.1	71.6	4 300	42.0
44.0																35.1	69.0	3 200	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

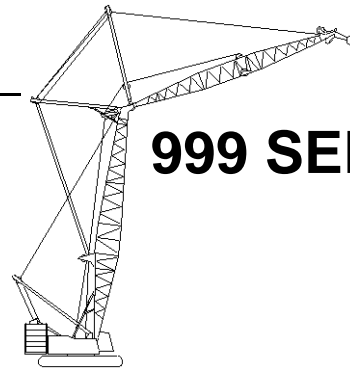
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**54.9m (180 Ft.) Boom, 64.0m (210 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	73.5	86.2	26 000*													13.7
14.0	73.0	86.1	25 600*													14.0
15.0	71.0	85.8	24 100*													15.0
16.0	68.9	85.4	22 200*													16.0
17.0	66.9	85.0	19 800*	70.8	85.6	24 300*										17.0
18.0	64.8	84.5	17 800*	68.8	85.2	22 000*										18.0
19.0	62.7	84.0	16 100*	66.7	84.8	19 800*										19.0
20.0	60.5	83.4	14 600*	64.6	84.3	17 800*	70.5	85.3	24 000*							20.0
21.0	58.3	82.8	13 300*	62.5	83.8	16 100*	68.5	84.9	21 800*							21.0
22.0	56.0	82.1	12 200*	60.3	83.2	14 600*	66.4	84.4	19 700*							22.0
23.0	53.6	81.4	11 200*	58.1	82.6	13 400*	64.3	83.9	17 800*							23.0
24.0	51.2	80.6	10 200*	55.8	81.9	12 200*	62.2	83.4	16 100*							24.0
25.0	48.7	79.7	9 400*	53.4	81.2	11 200*	60.0	82.8	14 700*	66.1	83.9	19 500*				25.0
26.0	46.1	78.7	8 700*	51.0	80.4	10 300*	57.7	82.2	13 400*	63.9	83.4	17 600*				26.0
27.0	43.4	77.7	8 100*	48.5	79.5	9 500*	55.5	81.5	12 300*	61.8	82.8	16 000*				27.0
28.0	40.5	76.5	7 500*	45.9	78.5	8 800*	53.1	80.7	11 300*	59.6	82.3	14 600*				28.0
29.0	37.4	75.2	6 900*	43.1	77.4	8 200*	50.7	79.9	10 400*	57.4	81.6	13 400*				29.0
30.0	34.1	73.8	6 400*	40.2	76.3	7 600*	48.1	79.0	9 600*	55.1	80.9	12 300*				30.0
31.0	30.4	72.1	6 000*	37.1	75.0	7 000*	45.5	78.0	8 900*	52.7	80.2	11 300*				31.0
32.0	26.2	70.1	5 600*	33.7	73.5	6 500*	42.7	77.0	8 300*	50.2	79.3	10 500*	61.1	81.6	12 500	32.0
33.0	21.3	67.7	5 200*	30.0	71.8	6 100*	39.8	75.8	7 700*	47.7	78.4	9 700*	58.9	81.0	11 600	33.0
34.0				25.8	69.8	5 700*	36.6	74.5	7 100*	45.0	77.4	9 000*	56.6	80.3	10 700	34.0
35.0				20.8	67.4	5 300*	33.2	73.0	6 600*	42.2	76.3	8 300*	54.3	79.6	9 900	35.0
36.0							29.5	71.2	6 200*	39.3	75.1	7 700*	51.9	78.8	9 100	36.0
37.0							25.2	69.2	5 800*	36.1	73.8	7 200*	49.4	77.9	8 400	37.0
38.0							20.0	66.6	5 400*	32.6	72.2	6 700*	46.8	77.0	7 700	38.0
39.0										28.8	70.5	6 200*	44.1	76.0	7 100	39.0
40.0										24.4	68.4	5 800*	41.2	74.8	6 400	40.0
42.0													35.0	72.2	5 300	42.0
44.0													27.4	68.7	4 200	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

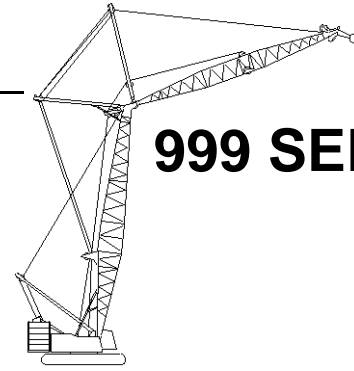
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 54.9m (180 Ft.) Boom, 67.1m (220 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
13.7	75.1	89.4	24 000*													13.7
14.0	74.6	89.3	23 800*													14.0
15.0	72.8	89.0	22 900*													15.0
16.0	70.9	88.7	21 500*													16.0
17.0	69.1	88.3	19 400*	72.6	88.9	23 500*										17.0
18.0	67.2	87.9	17 700*	70.8	88.5	21 300*										18.0
19.0	65.4	87.4	16 200*	68.9	88.1	19 300*										19.0
20.0	63.4	86.9	15 000*	67.1	87.7	17 700*										20.0
21.0	61.5	86.3	13 800*	65.2	87.2	16 200*										21.0
22.0	59.5	85.7	12 700*	63.3	86.7	14 900*	68.7	87.7	19 200*							22.0
23.0	57.5	85.1	11 500*	61.3	86.2	13 800*	66.8	87.3	17 500*							23.0
24.0	55.4	84.4	10 600*	59.3	85.6	12 700*	64.9	86.8	16 100*							24.0
25.0	53.2	83.7	9 700*	57.3	84.9	11 700*	63.0	86.3	14 800*							25.0
26.0	51.0	82.9	8 900*	55.2	84.2	10 700*	61.0	85.8	13 700*	66.5	86.8	17 300*				26.0
27.0	48.7	82.0	8 200*	53.0	83.5	9 800*	59.0	85.2	12 700*	64.6	86.3	15 900*				27.0
28.0	46.4	81.0	7 500*	50.8	82.7	9 000*	57.0	84.5	11 700*	62.7	85.8	14 600*				28.0
29.0	43.9	80.0	6 900*	48.5	81.8	8 300*	54.9	83.8	10 800*	60.7	85.2	13 600*				29.0
30.0	41.3	78.9	6 400*	46.2	80.8	7 600*	52.7	83.0	9 900*	58.7	84.6	12 600*				30.0
31.0	38.6	77.6	5 900*	43.7	79.8	7 000*	50.5	82.2	9 100*	56.6	83.9	11 600*				31.0
32.0	35.7	76.2	5 400*	41.1	78.6	6 400*	48.2	81.3	8 300*	54.5	83.2	10 700*				32.0
33.0	32.5	74.7	5 000*	38.3	77.4	5 900*	45.8	80.4	7 700*	52.4	82.5	9 900*				33.0
34.0	29.1	73.0	4 600*	35.4	76.0	5 500*	43.3	79.3	7 100*	50.1	81.6	9 100*	60.0	83.9	10 700	34.0
35.0	25.1	70.9	4 200*	32.2	74.4	5 100*	40.7	78.2	6 600*	47.8	80.7	8 400*	58.0	83.3	9 900	35.0
36.0	20.5	68.4	3 900*	28.7	72.7	4 700*	37.9	76.9	6 000*	45.4	79.7	7 800*	55.9	82.6	9 100	36.0
37.0				24.8	70.6	4 300*	35.0	75.5	5 600*	42.9	78.7	7 200*	53.8	81.9	8 400	37.0
38.0				20.0	68.0	4 000*	31.7	73.9	5 200*	40.3	77.5	6 600*	51.6	81.1	7 800	38.0
39.0							28.2	72.1	4 800*	37.5	76.2	6 100*	49.3	80.2	7 100	39.0
40.0							24.1	69.9	4 400*	34.5	74.8	5 600*	47.0	79.3	6 500	40.0
42.0										27.6	71.3	4 800*	42.0	77.2	5 400	42.0
44.0										18.3	66.3	3 700*	36.5	74.6	4 400	44.0
46.0													30.0	71.4	3 200*	46.0
48.0													21.8	67.1	2 200*	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

**54.9m (180 Ft.) Boom, 70.1m (230 Ft.) Luffing Jib**

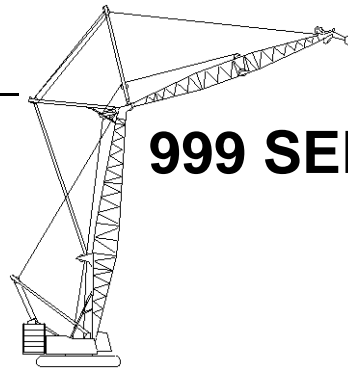
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	73.9	92.1	21 200*										15.2
16.0	72.6	91.9	20 400*										16.0
17.0	70.9	91.5	19 300*	74.1	92.1	23 100*							17.0
18.0	69.3	91.2	18 200*	72.5	91.7	22 300*							18.0
19.0	67.6	90.7	17 100*	70.8	91.4	21 000*							19.0
20.0	65.8	90.3	16 000*	69.1	91.0	19 300*							20.0
21.0	64.1	89.8	14 900*	67.4	90.6	17 800*							21.0
22.0	62.3	89.3	13 900*	65.7	90.1	16 500*							22.0
23.0	60.5	88.7	12 800*	63.9	89.6	15 300*	68.9	90.6	19 200*				23.0
24.0	58.7	88.1	11 900*	62.1	89.1	14 200*	67.2	90.2	17 700*				24.0
25.0	56.8	87.4	11 000*	60.3	88.5	13 300*	65.4	89.7	16 400*				25.0
26.0	54.9	86.7	10 100*	58.5	87.9	12 400*	63.7	89.2	15 200*				26.0
27.0	52.9	86.0	9 300*	56.6	87.2	11 500*	61.9	88.7	14 200*				27.0
28.0	50.9	85.2	8 500*	54.7	86.5	10 700*	60.1	88.1	13 200*	65.1	89.2	16 200*	28.0
29.0	48.8	84.3	7 800*	52.7	85.8	9 800*	58.2	87.5	12 300*	63.4	88.7	15 100*	29.0
30.0	46.6	83.3	7 100*	50.7	85.0	9 100*	56.3	86.8	11 600*	61.6	88.2	14 000*	30.0
31.0	44.4	82.3	6 500*	48.6	84.1	8 500*	54.4	86.1	10 800*	59.8	87.6	13 100*	31.0
32.0	42.0	81.2	6 000*	46.4	83.1	7 800*	52.4	85.4	10 000*	57.9	86.9	12 200*	32.0
33.0	39.6	80.0	5 400*	44.2	82.1	7 300*	50.4	84.5	9 200*	56.0	86.3	11 500*	33.0
34.0	37.0	78.7	4 900*	41.8	81.0	6 700*	48.3	83.6	8 600*	54.1	85.5	10 700*	34.0
35.0	34.2	77.2	4 700*	39.3	79.8	6 300*	46.1	82.7	8 000*	52.1	84.8	10 100*	35.0
36.0	31.2	75.6	4 400*	36.7	78.5	5 800*	43.8	81.6	7 400*	50.0	83.9	9 300*	36.0
37.0	27.9	73.8	4 000*	33.9	77.0	5 400*	41.5	80.5	6 900*	47.9	83.0	8 700*	37.0
38.0	24.2	71.6	3 800*	30.9	75.3	5 000*	39.0	79.3	6 400*	45.7	82.0	8 000*	38.0
39.0	19.8	69.0	3 300*	27.6	73.5	4 700*	36.3	77.9	6 000*	43.4	81.0	7 300*	39.0
40.0				23.8	71.3	4 300*	33.5	76.4	5 600*	41.1	79.9	6 600*	40.0
42.0							27.1	72.9	4 600*	35.9	77.2	5 300*	42.0
44.0							18.6	67.9	3 400*	29.9	74.0	4 100*	44.0
46.0										22.6	69.8	3 000*	46.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



## 999 SERIES 3

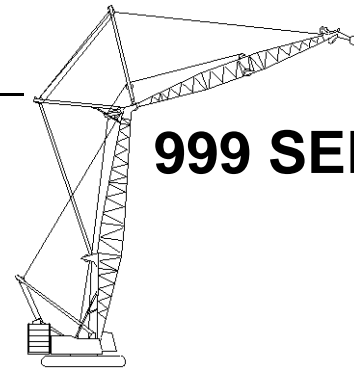
### 54.9m (180 Ft.) Boom, 73.2m (240 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
15.2	75.1	95.3	19 500*										15.2
16.0	74.0	95.1	18 900*										16.0
17.0	72.5	94.8	18 100*										17.0
18.0	70.9	94.4	17 100*										18.0
19.0	69.4	94.0	16 200*	72.3	94.6	19 600*							19.0
20.0	67.8	93.6	15 300*	70.8	94.3	18 400*							20.0
21.0	66.2	93.2	14 400*	69.2	93.9	17 000*							21.0
22.0	64.6	92.7	13 400*	67.7	93.5	15 700*							22.0
23.0	63.0	92.2	12 500*	66.1	93.0	14 500*	70.6	93.9	18 200*				23.0
24.0	61.3	91.6	11 700*	64.5	92.5	13 500*	69.0	93.5	16 800*				24.0
25.0	59.7	91.1	10 800*	62.8	92.0	12 500*	67.4	93.1	15 600*				25.0
26.0	57.9	90.4	10 000*	61.2	91.5	11 600*	65.9	92.6	14 400*				26.0
27.0	56.2	89.8	9 300*	59.5	90.9	10 800*	64.2	92.2	13 400*				27.0
28.0	54.4	89.0	8 600*	57.8	90.2	10 100*	62.6	91.6	12 400*				28.0
29.0	52.6	88.3	7 900*	56.0	89.6	9 400*	60.9	91.1	11 600*	65.6	92.1	14 200*	29.0
30.0	50.7	87.5	7 200*	54.2	88.9	8 800*	59.3	90.5	10 800*	64.0	91.6	13 300*	30.0
31.0	48.8	86.6	6 600*	52.4	88.1	8 200*	57.5	89.8	10 100*	62.3	91.1	12 300*	31.0
32.0	46.8	85.6	6 100*	50.5	87.3	7 700*	55.8	89.2	9 400*	60.7	90.5	11 500*	32.0
33.0	44.7	84.6	5 600*	48.6	86.4	7 200*	54.0	88.4	8 800*	59.0	89.9	10 700*	33.0
34.0	42.6	83.6	5 100*	46.6	85.4	6 700*	52.2	87.7	8 200*	57.3	89.3	10 000*	34.0
35.0	40.4	82.4	4 700*	44.6	84.4	6 300*	50.3	86.8	7 700*	55.5	88.6	9 300*	35.0
36.0	38.0	81.1	4 300*	42.4	83.3	5 800*	48.3	85.9	7 200*	53.7	87.8	8 700*	36.0
37.0	35.6	79.7	3 900*	40.2	82.2	5 300*	46.3	85.0	6 700*	51.8	87.1	8 200*	37.0
38.0	32.9	78.2	3 500*	37.8	80.9	4 900*	44.2	84.0	6 300*	50.0	86.2	7 600*	38.0
39.0	30.1	76.5	3 300*	35.3	79.5	4 500*	42.1	82.9	5 900*	48.0	85.3	7 100*	39.0
40.0	26.9	74.6	3 100*	32.7	77.9	4 200*	39.8	81.7	5 500*	46.0	84.4	6 600*	40.0
42.0				26.6	74.3	3 400*	35.0	79.0	4 600*	41.7	82.2	5 400*	42.0
44.0				18.8	69.3	2 500*	29.4	75.7	3 500*	37.1	79.7	4 100*	44.0
46.0							22.5	71.4	2 400*	31.8	76.7	3 100*	46.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 57.9m (190 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

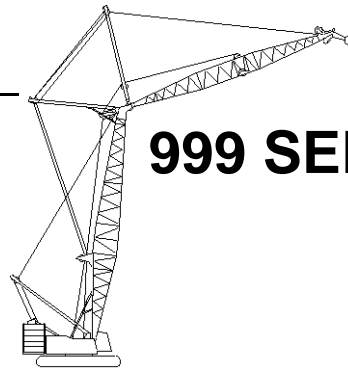
Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
12.2	54.1	69.7	16 300*b																12.2	
13.0	49.0	69.0	14 400*																13.0	
14.0	42.0	67.9	12 300*																14.0	
15.0	33.6	66.5	10 700*																15.0	
16.0				42.1	67.8	12 600*													16.0	
17.0				33.8	66.4	10 800*													17.0	
18.0				22.6	64.3	9 500*													18.0	
19.0							42.2	67.5	12 900*										19.0	
20.0							33.9	66.1	11 000*	55.4	69.0	18 300*b							20.0	
21.0							22.8	64.0	9 700*	49.2	68.1	15 300*							21.0	
22.0										42.1	67.0	12 900*							22.0	
23.0																			23.0	
24.0																			24.0	
25.0																			25.0	
26.0													48.6	66.9	15 500*				26.0	
27.0													41.5	65.8	13 300*				27.0	
28.0													33.1	64.3	11 300*				28.0	
29.0																			29.0	
30.0																			30.0	
31.0																	47.3	65.1	15 600*	31.0
32.0																	40.0	63.9	13 100*	32.0
33.0																	31.2	62.4	11 300*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**



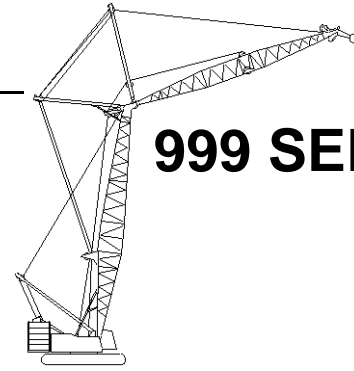
## 999 SERIES 3

### 57.9m (190 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	54.1	69.7	13 600*																12.2
13.0	49.0	69.0	12 000*																13.0
14.0	42.0	67.9	10 100*	55.4	69.8	14 500*													14.0
15.0	33.6	66.5	8 800*	49.1	68.9	12 100*													15.0
16.0				42.1	67.8	10 200*													16.0
17.0				33.8	66.4	8 900*	55.5	69.5	14 900*										17.0
18.0				22.6	64.3	7 800*	49.2	68.6	12 500*										18.0
19.0							42.2	67.5	10 500*										19.0
20.0							33.9	66.1	9 100*	55.4	69.0	15 200*							20.0
21.0							22.8	64.0	8 000*	49.2	68.1	12 700*							21.0
22.0										42.1	67.0	10 600*							22.0
23.0																			23.0
24.0																			24.0
25.0													54.9	67.8	15 700*b				25.0
26.0													48.6	66.9	12 700*				26.0
27.0													41.5	65.8	10 800*				27.0
28.0													33.1	64.3	9 300*				28.0
29.0																			29.0
30.0																			30.0
31.0																47.3	65.1	12 800*	31.0
32.0																40.0	63.9	10 800*	32.0
33.0																31.2	62.4	9 200*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

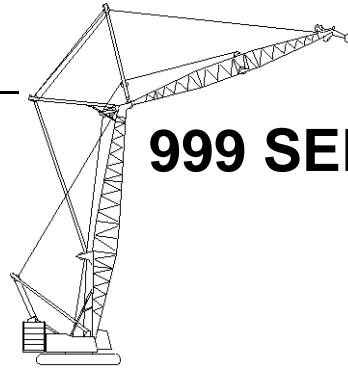
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 57.9m (190 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	62.9	70.8	16 300*b																10.7
11.0	61.0	70.6	15 300*b																11.0
12.0	55.3	69.9	12 500*																12.0
13.0	49.0	69.0	10 300*																13.0
14.0	42.0	67.9	8 800*	55.4	69.8	12 700*													14.0
15.0	33.6	66.5	7 600*	49.1	68.9	10 700*													15.0
16.0				42.1	67.8	9 000*													16.0
17.0				33.8	66.4	7 700*	55.5	69.5	13 100*										17.0
18.0				22.6	64.3	6 700*	49.2	68.6	10 900*										18.0
19.0							42.2	67.5	9 200*	61.2	69.7	16 900*b							19.0
20.0							33.9	66.1	7 900*	55.4	69.0	13 200*							20.0
21.0							22.8	64.0	6 900*	49.2	68.1	10 900*							21.0
22.0										42.1	67.0	9 300*							22.0
23.0																			23.0
24.0																			24.0
25.0													54.9	67.8	13 700*				25.0
26.0													48.6	66.9	11 100*				26.0
27.0													41.5	65.8	9 400*				27.0
28.0													33.1	64.3	8 100*				28.0
29.0																59.6	66.8	16 700*	29.0
30.0																53.7	66.0	13 700*	30.0
31.0																47.3	65.1	11 000*	31.0
32.0																40.0	63.9	9 400*	32.0
33.0																31.2	62.4	8 000*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

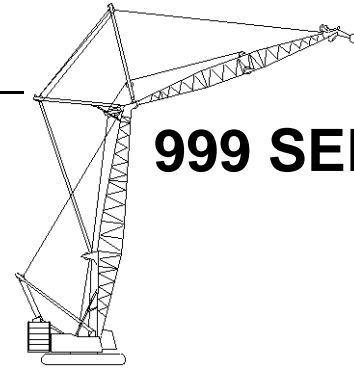
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

**57.9m (190 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	68.8	74.2	23 900*b																10.7
11.0	67.4	74.0	22 500*b																11.0
12.0	63.1	73.5	18 300*																12.0
13.0	58.7	72.9	15 100*																13.0
14.0	54.0	72.2	12 900*	63.2	73.4	18 700*													14.0
15.0	49.0	71.3	11 200*	58.8	72.8	15 600*													15.0
16.0	43.5	70.3	9 800*	54.1	72.1	13 100*													16.0
17.0	37.4	69.0	8 700*	49.1	71.2	11 400*	63.3	73.1	19 200*										17.0
18.0	30.1	67.4	7 700*	43.6	70.2	10 000*	58.8	72.5	16 000*										18.0
19.0				37.5	68.9	8 800*	54.2	71.8	13 400*										19.0
20.0				30.2	67.3	7 800*	49.2	70.9	11 600*	63.2	72.6	19 700*							20.0
21.0				20.5	64.9	7 000*	43.7	69.9	10 100*	58.8	72.0	16 400*							21.0
22.0							37.6	68.6	8 900*	54.1	71.3	13 700*							22.0
23.0							30.3	67.0	7 900*	49.1	70.4	11 800*							23.0
24.0							20.6	64.6	7 100*	43.7	69.4	10 300*							24.0
25.0										37.5	68.1	9 000*							25.0
26.0													58.4	70.8	16 600*				26.0
27.0													53.7	70.1	14 100*				27.0
28.0													48.7	69.2	12 000*				28.0
29.0													43.2	68.1	10 500*				29.0
30.0													37.0	66.8	9 200*				30.0
31.0													29.6	65.2	8 100*				31.0
32.0													19.5	62.7	7 300*	52.8	68.3	13 900*	32.0
33.0																47.6	67.4	12 100*	33.0
34.0																42.0	66.3	10 400*	34.0
35.0																35.6	65.0	9 200*	35.0
36.0																27.9	63.2	8 100*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

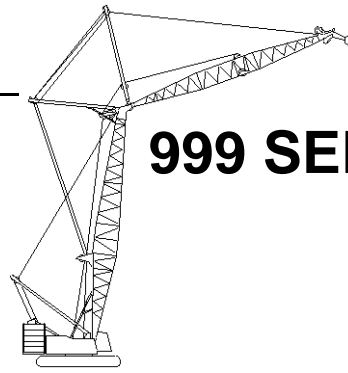
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 57.9m (190 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	62.9	70.8	15 000*																10.7
11.0	61.0	70.6	14 200*																11.0
12.0	55.3	69.9	11 600*																12.0
13.0	49.0	69.0	9 600*	61.1	70.5	14 500*													13.0
14.0	42.0	67.9	8 300*	55.4	69.8	11 600*													14.0
15.0	33.6	66.5	7 200*	49.1	68.9	9 800*													15.0
16.0				42.1	67.8	8 400*	61.2	70.2	14 900*										16.0
17.0				33.8	66.4	7 300*	55.5	69.5	11 800*										17.0
18.0				22.6	64.3	6 300*	49.2	68.6	9 900*										18.0
19.0							42.2	67.5	8 500*	61.2	69.7	15 100*							19.0
20.0							33.9	66.1	7 400*	55.4	69.0	12 000*							20.0
21.0							22.8	64.0	6 400*	49.2	68.1	10 000*							21.0
22.0										42.1	67.0	8 600*							22.0
23.0																			23.0
24.0																			24.0
25.0													54.9	67.8	12 300*				25.0
26.0													48.6	66.9	10 200*				26.0
27.0													41.5	65.8	8 600*				27.0
28.0													33.1	64.3	7 500*				28.0
29.0																			29.0
30.0																			30.0
31.0																47.3	65.1	10 100*	31.0
32.0																40.0	63.9	8 500*	32.0
33.0																31.2	62.4	7 400*	33.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

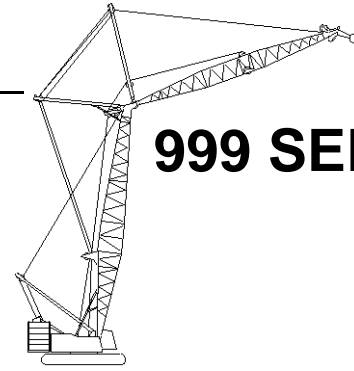
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 57.9m (190 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	68.8	74.2	21 000*																10.7
11.0	67.4	74.0	19 800*																11.0
12.0	63.1	73.5	16 200*																12.0
13.0	58.7	72.9	13 400*	67.5	73.9	20 400*													13.0
14.0	54.0	72.2	11 500*	63.2	73.4	16 200*													14.0
15.0	49.0	71.3	9 900*	58.8	72.8	13 600*													15.0
16.0	43.5	70.3	8 700*	54.1	72.1	11 600*	67.5	73.6	20 900*										16.0
17.0	37.4	69.0	7 700*	49.1	71.2	10 100*	63.3	73.1	16 500*										17.0
18.0	30.1	67.4	6 800*	43.6	70.2	8 800*	58.8	72.5	13 800*										18.0
19.0				37.5	68.9	7 700*	54.2	71.8	11 800*										19.0
20.0				30.2	67.3	6 900*	49.2	70.9	10 200*	63.2	72.6	17 000*							20.0
21.0				20.5	64.9	6 100*	43.7	69.9	8 900*	58.8	72.0	14 300*							21.0
22.0							37.6	68.6	7 900*	54.1	71.3	12 000*							22.0
23.0							30.3	67.0	7 000*	49.1	70.4	10 400*							23.0
24.0							20.6	64.6	6 200*	43.7	69.4	9 000*							24.0
25.0										37.5	68.1	8 000*							25.0
26.0													58.4	70.8	14 200*				26.0
27.0													53.7	70.1	12 200*				27.0
28.0													48.7	69.2	10 400*				28.0
29.0													43.2	68.1	9 100*				29.0
30.0													37.0	66.8	8 000*				30.0
31.0													29.6	65.2	7 100*				31.0
32.0													19.5	62.7	6 300*	52.8	68.3	11 900*	32.0
33.0																47.6	67.4	10 400*	33.0
34.0																42.0	66.3	9 000*	34.0
35.0																35.6	65.0	7 900*	35.0
36.0																27.9	63.2	7 000*	36.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

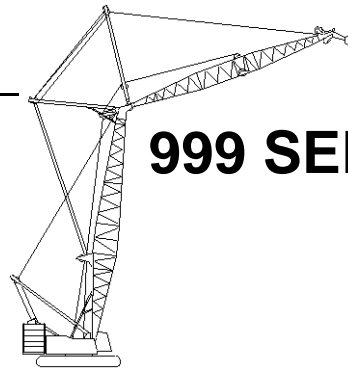
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 57.9m (190 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	72.5	77.5	26 700*																10.7
11.0	71.4	77.4	25 200*																11.0
12.0	68.0	76.9	20 600*																12.0
13.0	64.5	76.5	17 000*																13.0
14.0	60.9	75.9	14 600*	68.0	76.8	20 900*													14.0
15.0	57.1	75.2	12 700*	64.5	76.3	17 500*													15.0
16.0	53.2	74.5	11 100*	60.9	75.8	14 800*													16.0
17.0	49.0	73.6	9 800*	57.2	75.1	12 800*	68.1	76.5	21 300*										17.0
18.0	44.5	72.6	8 700*	53.2	74.4	11 200*	64.6	76.0	17 900*										18.0
19.0	39.6	71.4	7 800*	49.1	73.5	9 900*	61.0	75.5	15 100*										19.0
20.0	34.1	70.0	7 000*	44.6	72.5	8 800*	57.2	74.8	13 100*										20.0
21.0	27.5	68.2	6 300*	39.7	71.3	7 900*	53.3	74.1	11 400*										21.0
22.0				34.2	69.9	7 100*	49.1	73.2	10 100*	61.0	75.0	15 500*							22.0
23.0				27.7	68.1	6 400*	44.7	72.2	9 000*	57.2	74.3	13 200*							23.0
24.0				19.0	65.5	5 800*	39.8	71.0	8 000*	53.3	73.6	11 600*							24.0
25.0							34.3	69.6	7 200*	49.1	72.7	10 200*							25.0
26.0							27.8	67.8	6 500*	44.6	71.7	9 100*							26.0
27.0							19.1	65.2	5 900*	39.7	70.5	8 100*							27.0
28.0										34.2	69.1	7 300*	56.9	73.1	13 500*				28.0
29.0										52.9	72.4	11 700*							29.0
30.0										48.7	71.5	10 300*							30.0
31.0										44.2	70.5	9 200*							31.0
32.0										39.3	69.3	8 200*							32.0
33.0										33.8	67.8	7 300*							33.0
34.0										27.1	66.0	6 600*	52.1	70.6	11 300				34.0
35.0										18.1	63.3	6 000*	47.9	69.7	10 200				35.0
36.0													43.3	68.7	9 100*				36.0
37.0													38.3	67.4	8 100*				37.0
38.0													32.5	65.9	7 300*				38.0
39.0													25.6	63.9	6 600*				39.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

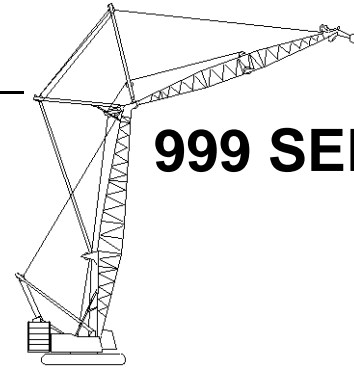
### 57.9m (190 Ft.) Boom, 42.7m (140 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	75.1	80.7	26 700*																10.7
11.0	74.2	80.6	26 500*																11.0
12.0	71.3	80.2	25 900*																12.0
13.0	68.4	79.8	23 400*																13.0
14.0	65.4	79.4	19 200*	71.4	80.1	25 800*													14.0
15.0	62.4	78.8	16 600*	68.5	79.7	22 700*													15.0
16.0	59.2	78.2	14 600*	65.5	79.2	19 600*													16.0
17.0	56.0	77.6	13 000*	62.4	78.7	16 900*													17.0
18.0	52.6	76.8	11 500*	59.3	78.1	14 800*													18.0
19.0	49.0	75.9	10 300*	56.0	77.4	13 100*	65.5	78.9	20 000*										19.0
20.0	45.2	74.9	9 300*	52.6	76.7	11 700*	62.5	78.4	17 200*										20.0
21.0	41.1	73.8	8 400*	49.1	75.8	10 500*	59.3	77.8	15 100*										21.0
22.0	36.6	72.5	7 600*	45.3	74.8	9 400*	56.1	77.1	13 300*	65.5	78.4	20 300*							22.0
23.0	31.6	70.9	6 900*	41.2	73.7	8 500*	52.7	76.4	11 900*	62.5	77.9	17 400*							23.0
24.0	25.6	68.9	6 300*	36.7	72.4	7 700*	49.1	75.5	10 600*	59.3	77.3	15 200*							24.0
25.0				31.7	70.8	7 000*	45.3	74.5	9 600*	56.1	76.6	13 500*							25.0
26.0				25.7	68.8	6 400*	41.2	73.4	8 700*	52.7	75.9	12 000*							26.0
27.0				17.9	66.1	5 900*	36.8	72.1	7 800*	49.1	75.0	10 800*							27.0
28.0							31.8	70.5	7 100*	45.3	74.0	9 700*							28.0
29.0							25.8	68.5	6 500*	41.2	72.9	8 800*	59.1	76.1	15 400*				29.0
30.0							18.0	65.8	6 000*	36.8	71.6	8 000*	55.8	75.4	13 700*				30.0
31.0										31.7	70.0	7 200*	52.4	74.7	12 100*				31.0
32.0										25.8	68.0	6 600*	48.8	73.8	10 900*				32.0
33.0													45.0	72.8	9 800*				33.0
34.0													40.9	71.6	8 900*				34.0
35.0													36.4	70.3	8 000*				35.0
36.0													31.3	68.7	7 300*	51.7	72.9	10 000	36.0
37.0													25.2	66.7	6 700*	48.0	72.0	9 300	37.0
38.0													17.1	63.9	6 100*	44.2	71.0	8 600	38.0
39.0																40.0	69.8	8 000	39.0
40.0																35.4	68.4	7 400	40.0
42.0																23.9	64.7	6 300	42.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

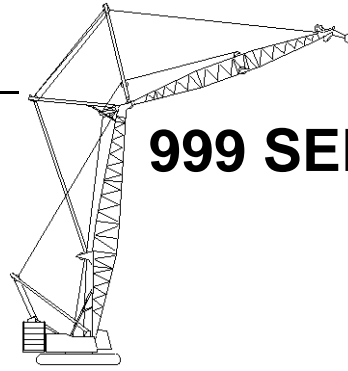
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 57.9m (190 Ft.) Boom, 45.7m (150 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.3	83.4	26 700*																12.2
13.0	71.3	83.1	25 400*																13.0
14.0	68.7	82.7	23 600*																14.0
15.0	66.1	82.3	20 500*																15.0
16.0	63.5	81.8	17 800*	68.8	82.6	23 800*													16.0
17.0	60.8	81.2	15 800*	66.2	82.1	20 500*													17.0
18.0	58.0	80.6	14 200*	63.5	81.6	18 000*													18.0
19.0	55.1	79.9	12 700*	60.8	81.1	16 000*	68.8	82.3	24 100*										19.0
20.0	52.1	79.1	11 500*	58.0	80.5	14 300*	66.2	81.8	20 900*										20.0
21.0	49.0	78.2	10 500*	55.2	79.8	12 900*	63.6	81.3	18 400*										21.0
22.0	45.7	77.3	9 500*	52.2	79.0	11 700*	60.9	80.8	16 300*										22.0
23.0	42.2	76.2	8 700*	49.0	78.1	10 600*	58.1	80.1	14 600*	66.2	81.3	21 100*							23.0
24.0	38.4	74.9	8 000*	45.8	77.1	9 700*	55.2	79.4	13 100*	63.6	80.8	18 700*							24.0
25.0	34.3	73.5	7 400*	42.3	76.0	8 800*	52.2	78.7	11 800*	60.8	80.3	16 500*							25.0
26.0	29.6	71.8	6 700*	38.5	74.8	8 100*	49.1	77.8	10 800*	58.1	79.6	14 800*							26.0
27.0	24.1	69.7	6 200*	34.4	73.4	7 400*	45.8	76.8	9 800*	55.2	78.9	13 300*							27.0
28.0				29.7	71.7	6 800*	42.3	75.7	9 000*	52.2	78.2	12 000*							28.0
29.0				24.2	69.6	6 300*	38.6	74.5	8 200*	49.1	77.3	10 900*							29.0
30.0				17.0	66.7	5 900*	34.4	73.1	7 500*	45.8	76.3	9 900*							30.0
31.0							29.8	71.4	7 000*	42.3	75.2	9 100*	57.8	78.4	14 900*				31.0
32.0							24.3	69.3	6 400*	38.5	74.0	8 300*	54.9	77.7	13 400*				32.0
33.0							17.1	66.4	6 000*	34.4	72.6	7 700*	51.9	77.0	12 200*				33.0
34.0										29.8	70.9	7 100*	48.8	76.1	11 100*				34.0
35.0										24.3	68.8	6 500*	45.5	75.1	10 100*				35.0
36.0													42.0	74.0	9 200*				36.0
37.0													38.2	72.7	8 400*	54.4	76.0	9 500	37.0
38.0													34.1	71.3	7 800*	51.3	75.2	8 900	38.0
39.0													29.4	69.6	7 200*	48.2	74.3	8 300	39.0
40.0													23.8	67.4	6 600*	44.8	73.3	7 700	40.0
42.0																37.4	70.9	6 700	42.0
44.0																28.3	67.6	5 700	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

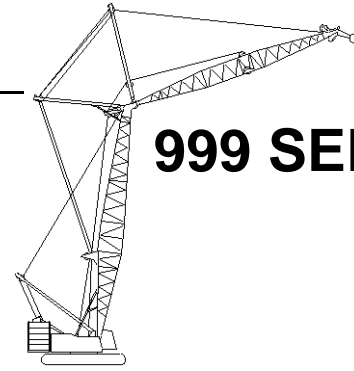
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

**57.9m (190 Ft.) Boom, 48.8m (160 Ft.) Luffing Jib**

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.2	86.6	26 700*																12.2
13.0	73.4	86.3	26 700*																13.0
14.0	71.2	86.0	26 400*																14.0
15.0	69.0	85.6	24 800*																15.0
16.0	66.7	85.2	22 600*	71.2	85.9	26 500*													16.0
17.0	64.3	84.7	20 000*	69.0	85.5	25 800*													17.0
18.0	62.0	84.1	18 100*	66.7	85.0	23 100*													18.0
19.0	59.5	83.5	16 500*	64.4	84.6	20 400*													19.0
20.0	57.0	82.9	15 000*	62.0	84.0	18 400*	69.0	85.2	26 200*										20.0
21.0	54.4	82.2	13 600*	59.6	83.4	16 700*	66.7	84.7	23 300*										21.0
22.0	51.8	81.4	12 400*	57.1	82.8	15 200*	64.4	84.2	20 800*										22.0
23.0	49.0	80.5	11 400*	54.5	82.1	13 800*	62.0	83.7	18 800*										23.0
24.0	46.1	79.6	10 500*	51.8	81.3	12 600*	59.6	83.1	17 000*										24.0
25.0	43.0	78.5	9 700*	49.0	80.4	11 600*	57.1	82.5	15 500*	64.4	83.8	21 300*							25.0
26.0	39.8	77.3	8 900*	46.1	79.5	10 600*	54.5	81.7	14 100*	62.0	83.2	19 000*							26.0
27.0	36.2	76.0	8 200*	43.1	78.4	9 800*	51.9	81.0	12 900*	59.6	82.6	17 200*							27.0
28.0	32.4	74.4	7 600*	39.8	77.2	9 100*	49.1	80.1	11 800*	57.1	82.0	15 600*							28.0
29.0	28.0	72.6	7 100*	36.3	75.9	8 400*	46.2	79.1	10 800*	54.5	81.3	14 200*							29.0
30.0	22.9	70.4	6 600*	32.5	74.3	7 700*	43.1	78.1	10 000*	51.8	80.5	13 000*							30.0
31.0				28.1	72.5	7 200*	39.9	76.9	9 200*	49.1	79.6	12 000*							31.0
32.0				23.0	70.3	6 700*	36.4	75.6	8 500*	46.2	78.6	11 000*	59.4	81.4	14 700				32.0
33.0				16.3	67.3	6 200*	32.5	74.0	7 900*	43.1	77.6	10 100*	56.9	80.8	13 800				33.0
34.0							28.2	72.2	7 300*	39.8	76.4	9 300*	54.3	80.0	13 000				34.0
35.0							23.1	70.0	6 800*	36.3	75.1	8 600*	51.6	79.3	12 200				35.0
36.0							16.4	67.0	6 400*	32.5	73.5	8 000*	48.8	78.4	11 500				36.0
37.0										28.2	71.7	7 500*	45.9	77.4	10 800				37.0
38.0										23.0	69.5	6 900*	42.8	76.3	10 200				38.0
39.0													39.6	75.1	9 500	53.8	78.3	8 200	39.0
40.0													36.0	73.8	8 800*	51.1	77.5	7 600	40.0
42.0													27.8	70.4	7 600*	45.3	75.6	6 600	42.0
44.0													15.7	65.0	6 600*	38.9	73.3	5 700	44.0
46.0																31.3	70.3	4 900	46.0
48.0																21.4	66.0	4 100	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

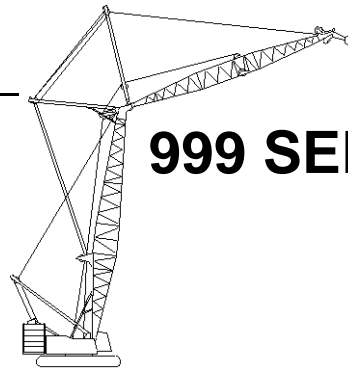
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 57.9m (190 Ft.) Boom, 51.8m (170 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.3	83.4	26 700*																12.2
13.0	71.3	83.1	24 400*																13.0
14.0	68.7	82.7	21 600*																14.0
15.0	66.1	82.3	18 800*																15.0
16.0	63.5	81.8	16 400*	68.8	82.6	22 000*													16.0
17.0	60.8	81.2	14 600*	66.2	82.1	18 900*													17.0
18.0	58.0	80.6	13 000*	63.5	81.6	16 600*													18.0
19.0	55.1	79.9	11 700*	60.8	81.1	14 800*	68.8	82.3	22 300*										19.0
20.0	52.1	79.1	10 600*	58.0	80.5	13 200*	66.2	81.8	19 200*										20.0
21.0	49.0	78.2	9 600*	55.2	79.8	11 900*	63.6	81.3	16 900*										21.0
22.0	45.7	77.3	8 800*	52.2	79.0	10 800*	60.9	80.8	15 000*										22.0
23.0	42.2	76.2	8 000*	49.0	78.1	9 700*	58.1	80.1	13 500*	66.2	81.3	19 500*							23.0
24.0	38.4	74.9	7 300*	45.8	77.1	8 900*	55.2	79.4	12 100*	63.6	80.8	17 200*							24.0
25.0	34.3	73.5	6 700*	42.3	76.0	8 100*	52.2	78.7	10 900*	60.8	80.3	15 200*							25.0
26.0	29.6	71.8	6 200*	38.5	74.8	7 400*	49.1	77.8	9 900*	58.1	79.6	13 600*							26.0
27.0	24.1	69.7	5 700*	34.4	73.4	6 800*	45.8	76.8	9 000*	55.2	78.9	12 200*							27.0
28.0				29.7	71.7	6 300*	42.3	75.7	8 300*	52.2	78.2	11 100*							28.0
29.0				24.2	69.6	5 800*	38.6	74.5	7 600*	49.1	77.3	10 100*							29.0
30.0				17.0	66.7	5 400*	34.4	73.1	6 900*	45.8	76.3	9 200*							30.0
31.0							29.8	71.4	6 400*	42.3	75.2	8 400*	57.8	78.4	13 800*				31.0
32.0							24.3	69.3	5 900*	38.5	74.0	7 700*	54.9	77.7	12 400*				32.0
33.0							17.1	66.4	5 500*	34.4	72.6	7 000*	51.9	77.0	11 200*				33.0
34.0										29.8	70.9	6 500*	48.8	76.1	10 200*				34.0
35.0										24.3	68.8	6 000*	45.5	75.1	9 300*				35.0
36.0													42.0	74.0	8 500*				36.0
37.0													38.2	72.7	7 800*	54.4	76.0	8 100	37.0
38.0													34.1	71.3	7 200*	51.3	75.2	7 500	38.0
39.0													29.4	69.6	6 600*	48.2	74.3	6 800	39.0
40.0													23.8	67.4	6 100*	44.8	73.3	6 300	40.0
42.0																37.4	70.9	5 200	42.0
44.0																28.3	67.6	4 200	44.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

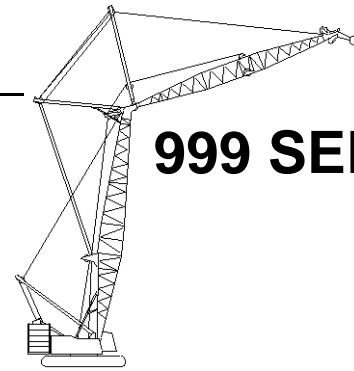
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 57.9m (190 Ft.) Boom, 54.9m (180 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	75.2	86.6	26 700*																12.2
13.0	73.4	86.3	26 200*																13.0
14.0	71.2	86.0	25 400*																14.0
15.0	69.0	85.6	23 600*																15.0
16.0	66.7	85.2	21 300*	71.2	85.9	25 700*													16.0
17.0	64.3	84.7	18 700*	69.0	85.5	24 300*													17.0
18.0	62.0	84.1	16 700*	66.7	85.0	21 500*													18.0
19.0	59.5	83.5	15 100*	64.4	84.6	18 900*													19.0
20.0	57.0	82.9	13 700*	62.0	84.0	17 000*	69.0	85.2	24 300*										20.0
21.0	54.4	82.2	12 400*	59.6	83.4	15 300*	66.7	84.7	21 600*										21.0
22.0	51.8	81.4	11 300*	57.1	82.8	13 800*	64.4	84.2	19 200*										22.0
23.0	49.0	80.5	10 300*	54.5	82.1	12 600*	62.0	83.7	17 200*										23.0
24.0	46.1	79.6	9 500*	51.8	81.3	11 500*	59.6	83.1	15 600*										24.0
25.0	43.0	78.5	8 700*	49.0	80.4	10 500*	57.1	82.5	14 100*	64.4	83.8	19 500*							25.0
26.0	39.8	77.3	8 100*	46.1	79.5	9 700*	54.5	81.7	12 900*	62.0	83.2	17 400*							26.0
27.0	36.2	76.0	7 400*	43.1	78.4	8 900*	51.9	81.0	11 700*	59.6	82.6	15 700*							27.0
28.0	32.4	74.4	6 900*	39.8	77.2	8 200*	49.1	80.1	10 700*	57.1	82.0	14 300*							28.0
29.0	28.0	72.6	6 400*	36.3	75.9	7 600*	46.2	79.1	9 900*	54.5	81.3	13 000*							29.0
30.0	22.9	70.4	6 000*	32.5	74.3	7 000*	43.1	78.1	9 100*	51.8	80.5	11 900*							30.0
31.0				28.1	72.5	6 500*	39.9	76.9	8 400*	49.1	79.6	10 900*							31.0
32.0				23.0	70.3	6 000*	36.4	75.6	7 800*	46.2	78.6	10 000*	59.4	81.4	13 300				32.0
33.0				16.3	67.3	5 600*	32.5	74.0	7 200*	43.1	77.6	9 200*	56.9	80.8	12 400				33.0
34.0							28.2	72.2	6 700*	39.8	76.4	8 500*	54.3	80.0	11 600				34.0
35.0							23.1	70.0	6 200*	36.3	75.1	7 900*	51.6	79.3	10 800				35.0
36.0							16.4	67.0	5 800*	32.5	73.5	7 300*	48.8	78.4	10 000				36.0
37.0										28.2	71.7	6 800*	45.9	77.4	9 300				37.0
38.0										23.0	69.5	6 300*	42.8	76.3	8 700				38.0
39.0													39.6	75.1	8 000	53.8	78.3	6 800	39.0
40.0													36.0	73.8	7 400	51.1	77.5	6 300	40.0
42.0													27.8	70.4	6 200	45.3	75.6	5 200	42.0
44.0													15.7	65.0	5 000*	38.9	73.3	4 300	44.0
46.0																31.3	70.3	3 400	46.0
48.0																21.4	66.0	2 600	48.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

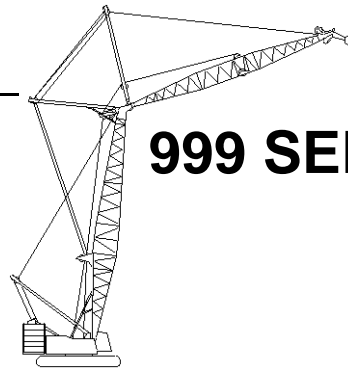
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 57.9m (190 Ft.) Boom, 57.9m (190 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	73.3	83.4	26 300*													12.2
13.0	71.3	83.1	23 300*													13.0
14.0	68.7	82.7	19 800*													14.0
15.0	66.1	82.3	17 300*													15.0
16.0	63.5	81.8	15 200*	68.8	82.6	20 300*										16.0
17.0	60.8	81.2	13 500*	66.2	82.1	17 500*										17.0
18.0	58.0	80.6	12 100*	63.5	81.6	15 400*										18.0
19.0	55.1	79.9	10 800*	60.8	81.1	13 600*	68.8	82.3	20 600*							19.0
20.0	52.1	79.1	9 800*	58.0	80.5	12 200*	66.2	81.8	17 800*							20.0
21.0	49.0	78.2	8 900*	55.2	79.8	11 000*	63.6	81.3	15 700*							21.0
22.0	45.7	77.3	8 000*	52.2	79.0	9 900*	60.9	80.8	13 900*							22.0
23.0	42.2	76.2	7 300*	49.0	78.1	9 000*	58.1	80.1	12 500*	66.2	81.3	18 000*				23.0
24.0	38.4	74.9	6 700*	45.8	77.1	8 200*	55.2	79.4	11 200*	63.6	80.8	15 900*				24.0
25.0	34.3	73.5	6 100*	42.3	76.0	7 500*	52.2	78.7	10 100*	60.8	80.3	14 100*				25.0
26.0	29.6	71.8	5 700*	38.5	74.8	6 800*	49.1	77.8	9 200*	58.1	79.6	12 600*				26.0
27.0	24.1	69.7	5 200*	34.4	73.4	6 300*	45.8	76.8	8 300*	55.2	78.9	11 300*				27.0
28.0				29.7	71.7	5 700*	42.3	75.7	7 600*	52.2	78.2	10 200*				28.0
29.0				24.2	69.6	5 300*	38.6	74.5	7 000*	49.1	77.3	9 300*				29.0
30.0				17.0	66.7	4 900*	34.4	73.1	6 400*	45.8	76.3	8 500*				30.0
31.0							29.8	71.4	5 900*	42.3	75.2	7 700*	57.8	78.4	12 800*	31.0
32.0							24.3	69.3	5 400*	38.5	74.0	7 100*	54.9	77.7	11 500*	32.0
33.0							17.1	66.4	5 000*	34.4	72.6	6 500*	51.9	77.0	10 400*	33.0
34.0										29.8	70.9	6 000*	48.8	76.1	9 400*	34.0
35.0										24.3	68.8	5 500*	45.5	75.1	8 600*	35.0
36.0													42.0	74.0	7 800*	36.0
37.0													38.2	72.7	7 200*	37.0
38.0													34.1	71.3	6 600*	38.0
39.0													29.4	69.6	6 000*	39.0
40.0													23.8	67.4	5 400*	40.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

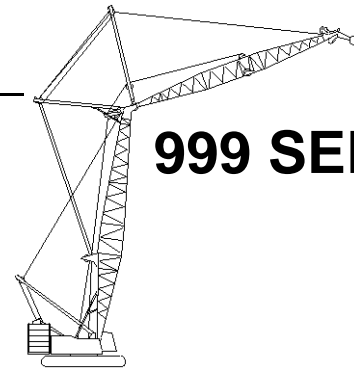
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 61.0m (200 Ft.) Boom, 21.3m (70 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	54.7	72.9	16 700*b																12.2
13.0	49.7	72.2	14 800*																13.0
14.0	42.8	71.1	12 500*																14.0
15.0	34.6	69.7	10 900*																15.0
16.0				43.7	71.1	13 100*													16.0
17.0				35.7	69.8	11 200*													17.0
18.0				25.4	67.8	9 800*													18.0
19.0							44.9	71.0	13 800*										19.0
20.0							37.2	69.7	11 700*										20.0
21.0							27.5	67.9	10 200*										21.0
22.0										46.0	70.6	14 500*							22.0
23.0										38.5	69.4	12 300*							23.0
24.0										29.2	67.7	10 600*							24.0
25.0																			25.0
26.0													53.6	70.5	18 500*				26.0
27.0													47.2	69.6	15 500*				27.0
28.0													39.9	68.4	13 000*				28.0
29.0																			29.0
30.0																			30.0
31.0																54.0	68.9	16 100b	31.0
32.0																47.6	68.0	15 100	32.0
33.0																40.3	66.9	13 600	33.0
34.0																31.6	65.3	11 800*	34.0
35.0																19.0	62.9	10 300*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



**999 SERIES 3**

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

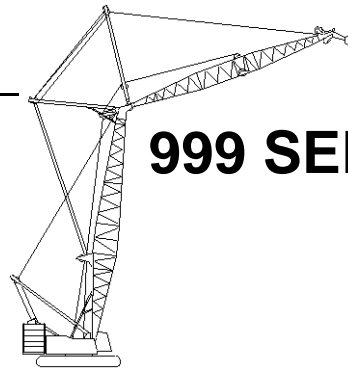
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 61.0m (200 Ft.) Boom, 24.4m (80 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
12.2	54.7	72.9	14 000*																12.2	
13.0	49.7	72.2	12 300*																13.0	
14.0	42.8	71.1	10 400*	56.6	73.0	15 300*													14.0	
15.0	34.6	69.7	8 900*	50.5	72.2	12 700*													15.0	
16.0				43.7	71.1	10 700*													16.0	
17.0				35.7	69.8	9 200*	57.6	72.8	16 300*b										17.0	
18.0				25.4	67.8	8 000*	51.6	72.0	13 500*										18.0	
19.0							44.9	71.0	11 200*										19.0	
20.0							37.2	69.7	9 700*	58.5	72.4	17 400*b							20.0	
21.0							27.5	67.9	8 400*	52.5	71.6	14 300*							21.0	
22.0										46.0	70.6	11 700*							22.0	
23.0										38.5	69.4	10 100*							23.0	
24.0										29.2	67.7	8 700*							24.0	
25.0													59.5	71.3	19 500*b				25.0	
26.0													53.6	70.5	15 200*				26.0	
27.0													47.2	69.6	12 500*				27.0	
28.0													39.9	68.4	10 600*				28.0	
29.0																			29.0	
30.0																			30.0	
31.0																	54.0	68.9	14 900	31.0
32.0																47.6	68.0	13 200	32.0	
33.0															40.3	66.9	11 300*	33.0		
34.0															31.6	65.3	9 500*	34.0		
35.0															19.0	62.9	8 300*	35.0		



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

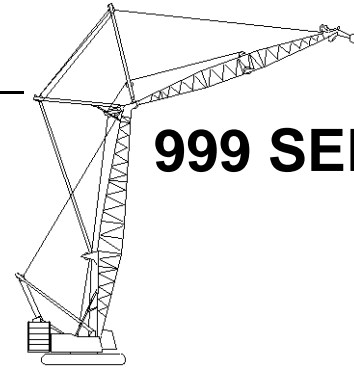
### 61.0m (200 Ft.) Boom, 27.4m (90 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
12.2	54.7	72.9	12 300*																12.2	
13.0	49.7	72.2	10 800*																13.0	
14.0	42.8	71.1	9 000*	56.6	73.0	13 500*													14.0	
15.0	34.6	69.7	7 800*	50.5	72.2	11 200*													15.0	
16.0				43.7	71.1	9 300*													16.0	
17.0				35.7	69.8	8 000*	57.6	72.8	14 300*										17.0	
18.0				25.4	67.8	7 000*	51.6	72.0	11 800*										18.0	
19.0							44.9	71.0	9 800*	64.1	73.0	20 100*b							19.0	
20.0							37.2	69.7	8 400*	58.5	72.4	15 100*							20.0	
21.0							27.5	67.9	7 300*	52.5	71.6	12 200*							21.0	
22.0										46.0	70.6	10 200*							22.0	
23.0										38.5	69.4	8 800*							23.0	
24.0										29.2	67.7	7 500*							24.0	
25.0													59.5	71.3	17 100*b				25.0	
26.0													53.6	70.5	13 300*				26.0	
27.0													47.2	69.6	10 900*				27.0	
28.0													39.9	68.4	9 300*				28.0	
29.0																			29.0	
30.0																			30.0	
31.0																	54.0	68.9	14 000	31.0
32.0																	47.6	68.0	11 500	32.0
33.0																	40.3	66.9	9 600*	33.0
34.0																	31.6	65.3	8 300*	34.0
35.0																	19.0	62.9	7 200*	35.0





# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

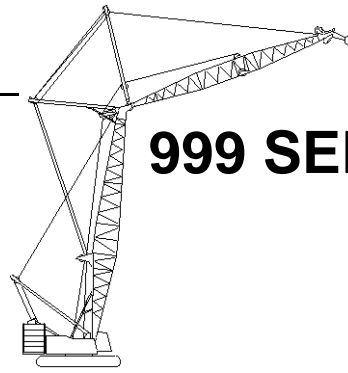
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 61.0m (200 Ft.) Boom, 30.5m (100 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
12.2	62.8	76.5	18 000*																12.2
13.0	59.2	76.0	15 800*																13.0
14.0	54.5	75.3	13 300*	64.1	76.6	19 800*													14.0
15.0	49.5	74.5	11 500*	59.7	76.0	16 400*													15.0
16.0	44.1	73.4	10 000*	55.1	75.3	13 700*													16.0
17.0	38.1	72.2	8 800*	50.2	74.4	11 800*	64.9	76.3	21 200*										17.0
18.0	30.9	70.6	7 800*	44.8	73.4	10 300*	60.5	75.8	17 500*										18.0
19.0				38.9	72.2	9 100*	55.9	75.1	14 400*										19.0
20.0				31.9	70.7	8 000*	51.1	74.3	12 400*	65.5	75.9	22 700*							20.0
21.0				22.9	68.5	7 100*	45.8	73.3	10 700*	61.2	75.3	18 500*							21.0
22.0							39.9	72.1	9 400*	56.6	74.7	15 200*							22.0
23.0							33.2	70.6	8 400*	51.8	73.9	13 000*							23.0
24.0							24.7	68.6	7 400*	46.6	72.9	11 200*							24.0
25.0										40.9	71.8	9 800*							25.0
26.0										34.3	70.4	8 600*	62.0	74.2	19 900*				26.0
27.0										26.2	68.5	7 700*	57.5	73.6	16 600*				27.0
28.0													52.7	72.8	13 800*				28.0
29.0													47.6	71.9	11 900*				29.0
30.0													42.0	70.8	10 300*				30.0
31.0													35.6	69.5	9 100*				31.0
32.0													27.8	67.7	8 000*	57.7	72.0	13 800	32.0
33.0																53.0	71.2	13 000	33.0
34.0																47.9	70.3	12 000	34.0
35.0																42.3	69.2	10 700	35.0
36.0																35.9	67.9	9 400*	36.0
37.0																28.3	66.1	8 300*	37.0
38.0																17.4	63.4	7 400*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

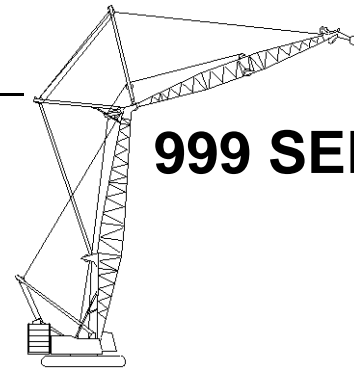
**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 61.0m (200 Ft.) Boom, 33.5m (110 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	63.5	73.9	15 500*b																10.7
11.0	61.6	73.7	14 600*b																11.0
12.0	55.9	73.0	11 900*																12.0
13.0	49.7	72.2	9 800*	62.3	73.6	15 400*													13.0
14.0	42.8	71.1	8 500*	56.6	73.0	12 200*													14.0
15.0	34.6	69.7	7 300*	50.5	72.2	10 200*													15.0
16.0				43.7	71.1	8 700*	63.3	73.4	16 500*b										16.0
17.0				35.7	69.8	7 500*	57.6	72.8	12 900*										17.0
18.0				25.4	67.8	6 600*	51.6	72.0	10 600*										18.0
19.0							44.9	71.0	9 000*	64.1	73.0	17 600*							19.0
20.0							37.2	69.7	7 800*	58.5	72.4	13 500*							20.0
21.0							27.5	67.9	6 800*	52.5	71.6	11 100*							21.0
22.0										46.0	70.6	9 400*							22.0
23.0										38.5	69.4	8 100*							23.0
24.0										29.2	67.7	7 000*							24.0
25.0													59.5	71.3	14 900*				25.0
26.0													53.6	70.5	11 800*				26.0
27.0													47.2	69.6	9 900*				27.0
28.0													39.9	68.4	8 500*				28.0
29.0																			29.0
30.0																			30.0
31.0																54.0	68.9	12 500*	31.0
32.0																47.6	68.0	10 300*	32.0
33.0																40.3	66.9	8 700*	33.0
34.0																31.6	65.3	7 500*	34.0
35.0																19.0	62.9	6 600*	35.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

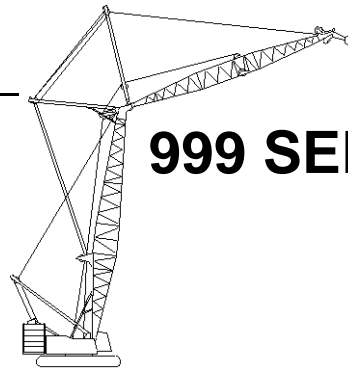
Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

### 61.0m (200 Ft.) Boom, 36.6m (120 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m	
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall			
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m
10.7	69.2	77.3	21 700*b																10.7	
11.0	67.8	77.1	20 400*b																11.0	
12.0	63.6	76.6	16 600*																12.0	
13.0	59.2	76.0	13 700*	68.3	77.1	21 700*													13.0	
14.0	54.5	75.3	11 700*	64.1	76.6	17 000*													14.0	
15.0	49.5	74.5	10 100*	59.7	76.0	14 200*													15.0	
16.0	44.1	73.4	8 800*	55.1	75.3	12 100*													16.0	
17.0	38.1	72.2	7 800*	50.2	74.4	10 400*	64.9	76.3	18 300*										17.0	
18.0	30.9	70.6	6 900*	44.8	73.4	9 100*	60.5	75.8	15 100*										18.0	
19.0				38.9	72.2	8 000*	55.9	75.1	12 600*										19.0	
20.0				31.9	70.7	7 100*	51.1	74.3	10 900*	65.5	75.9	19 200*							20.0	
21.0				22.9	68.5	6 300*	45.8	73.3	9 400*	61.2	75.3	15 900*							21.0	
22.0							39.9	72.1	8 300*	56.6	74.7	13 100*							22.0	
23.0							33.2	70.6	7 400*	51.8	73.9	11 300*							23.0	
24.0							24.7	68.6	6 500*	46.6	72.9	9 800*							24.0	
25.0										40.9	71.8	8 600*							25.0	
26.0										34.3	70.4	7 600*	62.0	74.2	16 700*				26.0	
27.0										26.2	68.5	6 700*	57.5	73.6	14 100*				27.0	
28.0													52.7	72.8	11 800*				28.0	
29.0													47.6	71.9	10 200*				29.0	
30.0													42.0	70.8	8 900*				30.0	
31.0													35.6	69.5	7 900*				31.0	
32.0													27.8	67.7	7 000*	57.7	72.0	12 600	32.0	
33.0																53.0	71.2	11 700	33.0	
34.0																47.9	70.3	10 700	34.0	
35.0																	42.3	69.2	9 200	35.0
36.0																	35.9	67.9	8 100*	36.0
37.0																	28.3	66.1	7 200*	37.0
38.0																	17.4	63.4	6 400*	38.0



# Liftcrane Luffing Jib Intermediate Fall Capacities



## 999 SERIES 3

Luffing Jib No. 149 On  
Boom No. 82  
99 610 kg Crane Counterweight  
36 290 kg Carbody Counterweight  
360 Degree Rating

**Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5**

### 61.0m (200 Ft.) Boom, 39.6m (130 Ft.) Luffing Jib

Int. Fall Oper. Rad. m	88 Degree Boom Angle			86 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			Int. Fall Oper. Rad. m
	Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		Jib Ang. Deg.	Intermediate Fall		
		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms		Elev. m	Capacity Kilograms	
10.7	72.9	80.6	26 700*b																10.7
11.0	71.7	80.4	25 300*b																11.0
12.0	68.3	80.0	21 000*																12.0
13.0	64.9	79.6	17 600*																13.0
14.0	61.3	79.0	15 000*	68.8	80.0	22 000*													14.0
15.0	57.5	78.4	12 900*	65.3	79.5	18 300*													15.0
16.0	53.6	77.6	11 300*	61.7	78.9	15 400*													16.0
17.0	49.4	76.8	10 000*	58.0	78.3	13 300*	69.4	79.7	23 300*										17.0
18.0	45.0	75.8	8 900*	54.1	77.6	11 600*	65.9	79.2	19 300*										18.0
19.0	40.2	74.6	7 900*	50.0	76.7	10 200*	62.3	78.7	16 100*										19.0
20.0	34.7	73.2	7 100*	45.6	75.8	9 100*	58.6	78.1	13 900*										20.0
21.0	28.3	71.4	6 400*	40.8	74.6	8 100*	54.8	77.4	12 100*										21.0
22.0				35.4	73.3	7 300*	50.7	76.6	10 600*	62.9	78.3	17 000*							22.0
23.0				29.2	71.5	6 600*	46.4	75.6	9 400*	59.2	77.7	14 400*							23.0
24.0				21.1	69.2	5 900*	41.6	74.5	8 400*	55.4	77.0	12 500*							24.0
25.0							36.4	73.2	7 500*	51.3	76.2	11 000*							25.0
26.0							30.3	71.5	6 800*	47.0	75.3	9 700*							26.0
27.0							22.7	69.3	6 100*	42.4	74.2	8 700*							27.0
28.0										37.2	72.9	7 800*	59.9	76.6	15 300*				28.0
29.0										31.3	71.3	7 000*	56.1	75.9	13 100*				29.0
30.0										24.0	69.2	6 300*	52.1	75.1	11 500*				30.0
31.0													47.8	74.2	10 200*				31.0
32.0													43.2	73.2	9 000*				32.0
33.0													38.2	71.9	8 100*				33.0
34.0													32.5	70.4	7 200*				34.0
35.0													25.5	68.4	6 500*				35.0
36.0																48.1	72.6	9 600	36.0
37.0																43.5	71.6	8 900	37.0
38.0																38.5	70.3	8 200	38.0
39.0																32.8	68.8	7 500*	39.0
40.0																25.9	66.9	6 700*	40.0