

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

## Liftcrane Luffing Jib Capacities

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

**LIFTING CAPACITIES:** Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and do not exceed 75% of a static tipping load for boom and luffing jib length combinations thru 250 Ft. and New York City criteria of 1.4 factor applied to total machine moment for boom and luffing jib length combinations 260 Ft. and up. Capacities based on structural competence are denoted by an asterisk (\*). Capacities indicated by (b) require 2,825 Lb. minimum block weight.

190 Ft. boom length requires only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point for 190 Ft. boom length. Lower boom point assembly must be completely removed on 200 Ft. boom length.

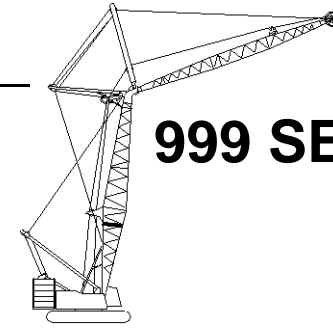
Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and luffing jib point sheaves, is considered part of luffing jib load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation 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 1/2 in. in 10 Ft. and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to luffing jib assembly **No. 196199** (Boom No. 22EL) or **No. 196200** (Boom No. 82), Wire Rope Specification chart **No. 8247-A** and Luffing Jib Raising Procedure chart **No. 8248-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. 8249-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

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### 999 SERIES 3

horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

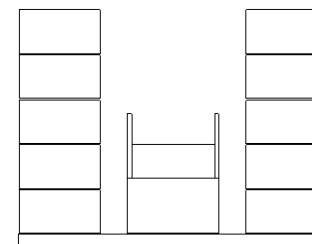
**LUFFING JIB POINT ELEVATION:** Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 28 Ft. 2 in. crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, boom support straps or four 1-3/8 in. boom pendants, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 219,600 Lb. crane counterweight, two 22,000 Lb. and two 18,000 Lb. carbody counterweights.

Consult chart **No. 8275-A** for lifting off lower boom point with luffing jib attached. Chart **No. 8275-A** cannot be used when fixed jib No. 138 is attached to luffing jib No. 135.

#### Deduct From Luffing Jib Capacities When Fixed Jib Is Attached

Fixed Jib Length	Fixed Jib No.138
30 Ft.	2,300 Lbs.
40 Ft.	2,700 Lbs.
50 Ft.	3,100 Lbs.
60 Ft.	3,600 Lbs.



219,600 Lb. Crane Counterweight  
10 Side Boxes - 1 Center Box



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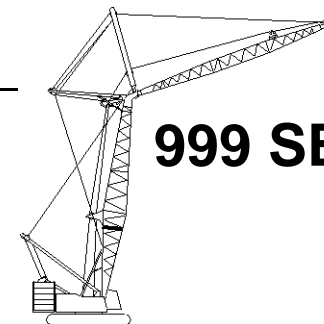
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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## 999 SERIES 3

### 70 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	64.3	141.0	101,800 *b																			40
45	59.7	138.4	96,700 *b	65.3	140.9	105,500 *b																45
50	54.8	135.2	93,800 *b	60.7	138.3	100,400 *b	64.1	139.6	104,300 *b													50
55	49.7	131.3	89,900 *	55.9	135.2	95,900 *b	59.4	136.9	99,500 *b													55
60	44.1	126.6	84,300 *	50.8	131.5	91,900 *	54.5	133.6	95,200 *b	60.3	135.9	100,400 *b										60
65	37.8	120.9	75,600 *	45.3	127.0	86,600 *	49.3	129.7	91,400 *	55.4	132.7	96,200 *b										65
70	30.5	113.5	68,300 *	39.2	121.5	77,500 *	43.7	125.0	84,000 *	50.3	129.0	92,500 *	56.2	131.2	91,900 b							70
75	21.1	103.1	55,800 *	32.2	114.6	69,900 *	37.4	119.1	75,400 *	44.8	124.4	85,900 *	51.1	127.6	84,400							75
80				23.4	105.1	62,500 *	30.0	111.6	68,100 *	38.6	118.8	77,000 *	45.6	123.1	78,000	51.7	125.5	76,100				80
85				8.5	87.6	46,800 *	20.4	101.0	60,800 *	31.5	111.6	69,500 *	39.6	117.7	72,500	46.3	121.2	70,700				85
90										22.4	101.8	63,100 *	32.6	110.8	67,600	40.3	115.8	65,900	46.7	118.5	64,300	90
95										5.2	81.5	49,300 *	24.0	101.6	63,200	33.5	109.2	61,700	40.7	113.2	60,200	95
100													10.0	85.2	56,800 *	25.1	100.3	57,900	34.0	106.7	56,500	100
105																12.4	85.5	54,500	25.7	98.0	53,200	105
110																			13.6	84.0	50,200	110

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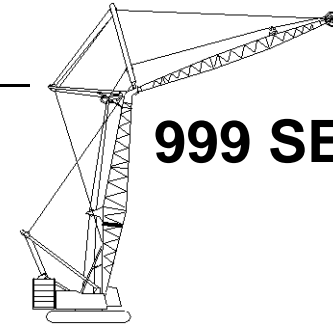
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 80,000 Lb. Carbody Counterweight  
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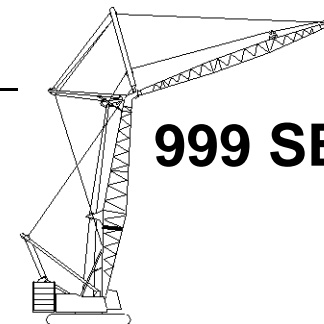
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 The Scope of ANSI B30.5



## 999 SERIES 3

### 70 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	67.7	152.0	95,100 *b																			40
45	63.8	149.7	90,200 *b	68.6	151.7	98,600 *b																45
50	59.7	147.1	87,300 *b	64.7	149.6	93,800 *b	67.5	150.5	97,300 *b													50
55	55.5	143.9	83,200 *	60.6	147.0	89,200 *b	63.6	148.2	92,700 *b													55
60	51.0	140.1	79,600 *	56.4	143.9	85,100 *	59.5	145.5	88,400 *b													60
65	46.3	135.7	75,800 *	52.0	140.3	81,400 *	55.2	142.3	84,400 *	60.2	144.6	89,100 *b										65
70	41.1	130.5	68,600 *	47.3	136.1	77,700 *	50.7	138.6	80,800 *	56.0	141.4	85,300 *										70
75	35.3	124.2	62,400 *	42.2	131.0	70,200 *	45.9	134.1	75,500 *	51.6	137.8	81,800 *	56.7	139.9	84,100							75
80	28.5	116.1	57,100 *	36.6	125.0	63,800 *	40.7	128.8	68,400 *	46.9	133.5	77,100 *	52.3	136.4	77,700							80
85	19.7	104.9	47,200 *	30.1	117.4	58,300 *	34.9	122.4	62,300 *	41.7	128.3	69,700 *	47.6	132.2	72,200	52.8	134.3	70,300				85
90				21.9	107.1	52,800 *	28.0	114.2	57,000 *	36.0	122.1	63,400 *	42.5	127.2	67,300	48.1	130.1	65,600				90
95				7.9	88.3	40,200 *	19.0	102.7	51,600 *	29.4	114.4	58,000 *	36.9	121.2	63,000	43.1	125.3	61,400				95
100										21.0	103.7	53,300 *	30.5	113.7	58,900 *	37.6	119.4	57,700	43.5	122.6	56,200	100
105										4.9	81.9	42,600 *	22.4	103.6	54,100 *	31.3	112.1	54,300	38.0	116.8	53,000	105
110													9.3	86.0	49,000 *	23.5	102.4	51,300	31.7	109.6	50,000	110
115																11.6	86.6	48,500	24.1	100.2	47,300	115
120																			12.7	85.1	44,800	120



**999 SERIES 3**

**Liftcrane Luffing Jib Capacities**

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 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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

**70 Ft. Boom, 90 Ft. Jib**

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	70.3	162.7	83,400 *b																			40
45	66.9	160.7	79,200 *b																			45
50	63.4	158.4	76,800 *	67.6	160.5	82,300 *b																50
55	59.8	155.7	73,300 *	64.2	158.3	78,500 *b	66.7	159.3	81,300 *b													55
60	56.0	152.6	70,200 *	60.6	155.7	75,000 *	63.2	156.9	77,800 *													60
65	52.1	148.9	67,300 *	56.8	152.6	71,900 *	59.5	154.2	74,400 *													65
70	47.9	144.8	64,600 *	52.9	149.1	68,900 *	55.8	151.0	71,400 *	60.2	153.2	75,000 *										70
75	43.5	139.9	62,200 *	48.8	145.0	66,100 *	51.8	147.4	68,500 *	56.5	150.1	72,100 *										75
80	38.6	134.1	57,800 *	44.5	140.3	63,600 *	47.7	143.1	65,800 *	52.6	146.6	69,300 *	57.1	148.6	72,100 *							80
85	33.2	127.2	53,200 *	39.7	134.8	59,000 *	43.2	138.2	63,000 *	48.4	142.4	66,700 *	53.2	145.1	69,600 *							85
90	26.8	118.6	49,100 *	34.4	128.2	54,300 *	38.3	132.4	57,700 *	44.0	137.7	64,200 *	49.1	141.1	67,100 *							90
95	18.6	106.6	40,800 *	28.3	120.0	50,100 *	32.8	125.4	53,100 *	39.2	132.0	58,700 *	44.7	136.4	62,900 *	49.6	139.1	61,200				95
100				20.6	109.0	45,600 *	26.4	116.6	49,100 *	33.9	125.3	54,000 *	40.0	130.9	59,000 *	45.2	134.5	57,500				100
105				7.5	89.0	35,200 *	17.9	104.3	44,800 *	27.7	116.9	49,900 *	34.8	124.4	54,800 *	40.6	129.1	54,200	45.5	131.8	52,800	105
110										19.7	105.5	46,100 *	28.7	116.3	50,600 *	35.4	122.7	51,200	40.9	126.5	49,800	110
115										4.6	82.3	37,500 *	21.1	105.5	46,800 *	29.4	114.8	48,400	35.7	120.1	47,200	115
120													8.8	86.8	43,000 *	22.1	104.4	45,900	29.9	112.4	44,800	120
125																10.9	87.6	43,600	22.7	102.2	42,500	125
130																			11.9	86.2	40,400	130

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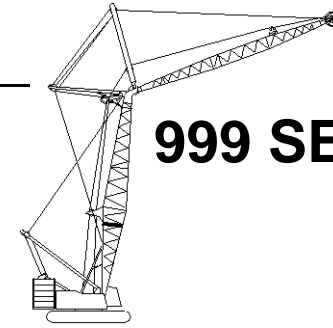
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 80,000 Lb. Carbody Counterweight  
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## 999 SERIES 3

### 70 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	72.4	173.2	77,900 *b																			40
45	69.3	171.5	75,300 *b																			45
50	66.2	169.5	71,700 *	70.0	171.2	76,700 *b																50
55	63.1	167.1	68,300 *	66.9	169.3	73,100 *																55
60	59.8	164.4	65,200 *	63.7	167.0	69,800 *	66.0	168.0	72,200 *													60
65	56.4	161.3	62,300 *	60.5	164.3	66,600 *	62.9	165.6	69,100 *													65
70	52.9	157.7	59,600 *	57.2	161.3	63,700 *	59.6	162.9	66,000 *													70
75	49.2	153.7	57,200 *	53.7	157.8	61,000 *	56.2	159.7	63,200 *	60.2	161.9	66,500 *										75
80	45.3	149.1	54,900 *	50.0	153.9	58,500 *	52.7	156.1	60,600 *	56.8	158.8	63,800 *										80
85	41.1	143.7	52,800 *	46.2	149.4	56,200 *	49.0	152.1	58,200 *	53.3	155.3	61,300 *	57.4	157.3	63,800 *							85
90	36.6	137.5	49,200 *	42.1	144.3	54,000 *	45.1	147.4	55,900 *	49.7	151.3	58,900 *	53.9	153.9	61,500 *							90
95	31.5	130.1	45,600 *	37.6	138.3	50,100 *	40.9	142.0	53,100 *	45.8	146.8	56,700 *	50.2	150.0	59,300 *							95
100	25.4	120.9	42,300 *	32.6	131.2	46,500 *	36.3	135.8	49,100 *	41.7	141.6	54,000 *	46.4	145.5	57,100 *	50.7	147.9	57,200				100
105	17.6	108.2	35,400 *	26.8	122.4	43,200 *	31.1	128.3	45,600 *	37.1	135.5	49,900 *	42.3	140.4	54,800 *	46.9	143.5	53,800				105
110				19.5	110.7	39,500 *	25.0	118.9	42,400 *	32.1	128.2	46,300 *	37.9	134.5	50,600 *	42.8	138.5	50,900	47.1	140.8	47,600 *	110
115				7.1	89.6	30,900 *	17.0	105.9	39,000 *	26.2	119.3	43,000 *	32.9	127.4	46,900 *	38.4	132.7	48,100	43.1	135.9	46,900	115
120										18.7	107.2	40,100 *	27.2	118.8	43,600 *	33.5	125.8	45,700	38.7	130.1	44,400	120
125										4.4	82.7	33,000 *	20.0	107.3	40,600 *	27.9	117.4	43,400	33.8	123.3	42,200	125
130													8.3	87.6	37,700 *	21.0	106.3	41,000 *	28.3	115.0	40,200	130
135																10.3	88.5	38,100 *	21.5	104.2	38,300	135
140																			11.3	87.2	36,500	140



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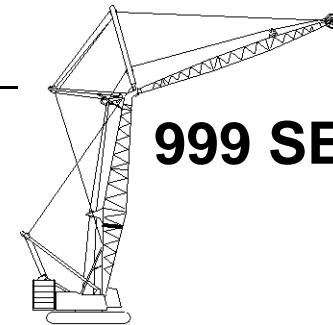
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Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	74.0	183.7	73,700 *b																			40
45	71.3	182.1	71,700 *b																			45
50	68.5	180.3	68,700 *																			50
55	65.7	178.2	65,800 *	69.1	180.0	69,900 *																55
60	62.8	175.8	62,900 *	66.3	178.0	67,000 *																60
65	59.8	173.0	60,200 *	63.4	175.6	64,100 *	65.5	176.7	66,200 *													65
70	56.8	169.9	57,600 *	60.5	173.0	61,400 *	62.6	174.3	63,400 *													70
75	53.6	166.5	55,300 *	57.4	170.0	58,800 *	59.6	171.5	60,800 *													75
80	50.3	162.5	53,100 *	54.3	166.6	56,400 *	56.6	168.4	58,300 *	60.2	170.5	61,100 *										80
85	46.8	158.1	51,100 *	51.0	162.8	54,200 *	53.4	164.9	56,000 *	57.1	167.5	58,700 *										85
90	43.1	153.1	49,300 *	47.6	158.4	52,200 *	50.1	160.9	53,900 *	54.0	164.1	56,500 *	57.6	166.0	58,600 *							90
95	39.1	147.4	45,700 *	43.9	153.6	50,200 *	46.6	156.5	51,900 *	50.7	160.2	54,400 *	54.5	162.6	56,500 *							95
100	34.8	140.8	42,600 *	40.0	148.0	46,600 *	42.9	151.4	49,200 *	47.2	155.8	52,400 *	51.2	158.8	54,600 *							100
105	30.0	132.9	39,800 *	35.8	141.6	43,400 *	38.9	145.7	45,700 *	43.6	150.9	50,000 *	47.8	154.5	52,700 *	51.6	156.7	53,800				105
110	24.2	123.1	34,900 *	31.1	134.0	40,500 *	34.5	139.0	42,600 *	39.6	145.3	46,400 *	44.1	149.7	50,600 *	48.2	152.5	50,800				110
115	16.8	109.7	29,400 *	25.6	124.7	37,900 *	29.6	131.0	39,800 *	35.4	138.8	43,200 *	40.3	144.2	47,000 *	44.6	147.7	48,100				115
120				18.6	112.4	32,800 *	23.8	121.0	37,200 *	30.6	131.0	40,400 *	36.0	137.8	43,700 *	40.7	142.3	45,700	44.8	145.1	43,400 *	120
125				6.8	90.2	25,800 *	16.2	107.3	32,500 *	25.0	121.6	37,800 *	31.3	130.3	40,800 *	36.5	136.1	43,400	41.0	139.7	42,200	125
130										17.8	108.8	35,300 *	25.9	121.1	38,200 *	31.9	128.7	41,200 *	36.8	133.5	40,200	130
135										4.2	83.1	27,700 *	19.1	109.1	35,800 *	26.6	119.8	38,500 *	32.2	126.2	38,400	135
140													7.9	88.3	31,800 *	20.0	108.2	36,100 *	27.0	117.4	36,600	140
145																9.9	89.4	33,800 *	20.5	106.0	35,000	145
150																			10.8	88.2	33,500	150

# Manitowoc Cranes, Inc.

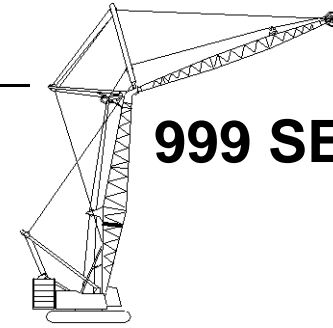
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

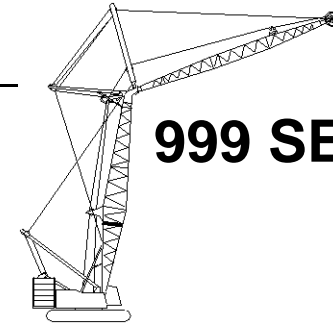
Designed And Tested  
 With The Intent To Be In  
 The Scope of ANSI B30.5



## 999 SERIES 3

### 70 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	75.4	194.1	68,200 *b																			40
45	72.9	192.6	66,500 *b																			45
50	70.4	191.0	63,600 *																			50
55	67.8	189.1	60,800 *	70.9	190.7	64,500 *																55
60	65.2	186.9	58,300 *	68.4	188.8	61,900 *																60
65	62.6	184.4	55,800 *	65.8	186.7	59,400 *	67.7	187.6	61,100 *													65
70	59.8	181.7	53,500 *	63.1	184.3	56,900 *	65.0	185.4	58,700 *													70
75	57.0	178.6	51,200 *	60.4	181.6	54,600 *	62.4	182.9	56,300 *													75
80	54.1	175.2	49,000 *	57.6	178.6	52,200 *	59.7	180.2	54,000 *	62.9	181.9	56,300 *										80
85	51.1	171.4	47,000 *	54.8	175.3	50,000 *	56.8	177.1	51,700 *	60.2	179.2	54,300 *										85
90	48.0	167.1	45,100 *	51.8	171.6	48,000 *	53.9	173.6	49,600 *	57.4	176.2	52,100 *										90
95	44.7	162.3	43,300 *	48.7	167.4	46,000 *	50.9	169.8	47,600 *	54.5	172.8	50,000 *	57.8	174.6	51,900 *							95
100	41.2	157.0	41,700 *	45.4	162.7	44,200 *	47.8	165.5	45,700 *	51.5	169.0	48,000 *	54.9	171.3	50,000 *							100
105	37.4	150.9	39,700 *	42.0	157.5	42,500 *	44.5	160.7	43,900 *	48.4	164.8	46,200 *	52.0	167.6	48,100 *							105
110	33.3	143.8	37,200 *	38.3	151.6	40,400 *	41.0	155.3	42,200 *	45.1	160.1	44,400 *	48.9	163.5	46,300 *	52.3	165.5	47,800 *				110
115	28.6	135.5	34,900 *	34.2	144.7	37,800 *	37.2	149.1	39,700 *	41.6	154.8	42,700 *	45.6	158.8	44,600 *	49.2	161.4	46,200 *				115
120	23.2	125.2	30,500 *	29.7	136.7	35,500 *	33.0	142.0	37,200 *	37.9	148.8	40,200 *	42.2	153.6	43,000 *	46.0	156.9	44,600 *				120
125	16.1	111.2	25,800 *	24.5	126.9	33,300 *	28.3	133.6	34,900 *	33.8	141.9	37,700 *	38.5	147.7	40,700 *	42.6	151.7	43,100 *	46.2	154.2	37,000 *	125
130				17.8	114.0	28,900 *	22.8	123.1	32,800 *	29.2	133.7	35,400 *	34.5	141.0	38,100 *	38.9	145.9	41,100 *	42.8	149.1	36,100 *	130
135				6.5	90.8	22,800 *	15.5	108.7	28,700 *	23.9	123.7	33,200 *	30.0	133.0	35,800 *	34.9	139.3	38,500 *	39.2	143.3	35,900 *	135
140										17.1	110.3	31,200 *	24.8	123.4	33,600 *	30.5	131.5	36,100 *	35.2	136.7	36,300	140
145										4.0	83.4	24,600 *	18.3	110.7	31,600 *	25.4	122.1	33,900 *	30.8	129.1	34,700	145
150													7.6	89.0	28,300 *	19.1	109.9	31,800 *	25.8	119.8	33,300	150
155																9.4	90.2	29,900 *	19.6	107.8	31,900	155
160																			10.3	89.1	30,100 *	160



**999 SERIES 3**

**Liftcrane Luffing Jib Capacities**

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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

**70 Ft. Boom, 130 Ft. Jib**

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	74.2	203.1	56,600 *																			45
50	71.9	201.5	54,200 *																			50
55	69.6	199.8	51,900 *																			55
60	67.2	197.8	49,700 *	70.1	199.5	52,600 *																60
65	64.8	195.6	47,600 *	67.7	197.6	50,400 *																65
70	62.4	193.1	45,600 *	65.3	195.4	48,400 *	67.1	196.4	49,700 *													70
75	59.8	190.4	43,700 *	62.9	193.0	46,400 *	64.7	194.1	47,800 *													75
80	57.3	187.3	42,000 *	60.4	190.3	44,500 *	62.2	191.6	45,900 *													80
85	54.6	183.9	40,300 *	57.8	187.3	42,700 *	59.7	188.8	44,100 *	62.7	190.6	45,900 *										85
90	51.8	180.2	38,700 *	55.2	184.0	41,000 *	57.1	185.8	42,300 *	60.1	187.9	44,200 *										90
95	49.0	176.0	37,200 *	52.4	180.3	39,400 *	54.4	182.4	40,600 *	57.6	184.8	42,500 *										95
100	46.0	171.5	35,700 *	49.6	176.3	37,800 *	51.7	178.6	39,100 *	54.9	181.5	40,900 *	58.0	183.3	42,300 *							100
105	42.8	166.4	34,400 *	46.7	171.8	36,400 *	48.8	174.4	37,600 *	52.2	177.8	39,400 *	55.3	180.0	40,800 *							105
110	39.5	160.6	33,100 *	43.5	166.8	35,000 *	45.8	169.8	36,100 *	49.3	173.7	37,900 *	52.6	176.4	39,400 *							110
115	35.9	154.2	32,000 *	40.2	161.3	33,700 *	42.6	164.7	34,800 *	46.4	169.2	36,500 *	49.8	172.3	38,000 *	52.9	174.3	39,100 *				115
120	31.9	146.7	30,900 *	36.7	155.0	32,500 *	39.3	158.9	33,500 *	43.2	164.2	35,100 *	46.8	167.9	36,600 *	50.1	170.3	37,800 *				120
125	27.5	138.0	29,900 *	32.8	147.8	31,400 *	35.7	152.4	32,300 *	39.9	158.5	33,900 *	43.7	162.9	35,300 *	47.2	165.9	36,500 *				125
130	22.3	127.2	27,100 *	28.5	139.3	30,400 *	31.7	144.9	31,200 *	36.3	152.1	32,700 *	40.4	157.4	34,100 *	44.1	161.0	35,300 *	47.4	163.2	36,100 *	130
135	15.4	112.6	23,000 *	23.5	129.1	29,500 *	27.2	136.0	30,200 *	32.4	144.8	31,600 *	36.9	151.2	32,900 *	40.8	155.5	34,100 *	44.3	158.3	35,000 *	135
140				17.1	115.6	25,800 *	21.9	125.1	29,300 *	28.1	136.3	30,600 *	33.1	144.0	31,800 *	37.3	149.4	33,000 *	41.0	152.9	33,900 *	140
145				6.2	91.3	20,400 *	14.9	110.0	25,700 *	23.0	125.8	29,600 *	28.8	135.7	30,800 *	33.5	142.4	31,900 *	37.6	146.8	32,900 *	145
150										16.4	111.8	28,000 *	23.8	125.5	29,900 *	29.3	134.2	30,900 *	33.8	139.8	31,900 *	150
155										3.8	83.8	22,100 *	17.6	112.3	28,300 *	24.4	124.3	30,000 *	29.6	131.7	30,900 *	155
160													7.3	89.6	25,500 *	18.4	111.5	28,600 *	24.8	122.0	30,000 *	160
170																			9.9	90.0	27,000 *	170



# Manitowoc Cranes, Inc.

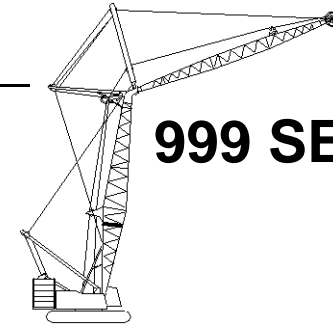
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 70 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.4	213.4	52,300 *																			45
50	73.3	212.0	50,100 *																			50
55	71.1	210.4	48,000 *																			55
60	68.9	208.6	45,900 *																			60
65	66.7	206.6	43,900 *	69.4	208.3	46,500 *																65
70	64.5	204.3	42,000 *	67.2	206.3	44,600 *																70
75	62.2	201.8	40,200 *	65.0	204.1	42,700 *	66.6	205.1	44,000 *													75
80	59.9	199.0	38,500 *	62.7	201.7	40,900 *	64.3	202.8	42,200 *													80
85	57.5	196.0	36,900 *	60.4	199.0	39,200 *	62.0	200.3	40,400 *													85
90	55.0	192.6	35,300 *	58.0	196.0	37,500 *	59.7	197.5	38,800 *	62.5	199.2	40,400 *										90
95	52.5	189.0	33,800 *	55.5	192.7	35,900 *	57.3	194.4	37,100 *	60.1	196.5	38,900 *										95
100	49.8	184.9	32,400 *	53.0	189.1	34,400 *	54.8	191.1	35,600 *	57.7	193.5	37,300 *										100
105	47.1	180.5	31,100 *	50.4	185.1	33,000 *	52.3	187.4	34,100 *	55.3	190.2	35,800 *										105
110	44.2	175.6	29,800 *	47.7	180.8	31,700 *	49.7	183.3	32,700 *	52.8	186.6	34,400 *	55.7	188.7	35,800 *							110
115	41.2	170.2	28,600 *	44.9	176.0	30,400 *	46.9	178.9	31,400 *	50.1	182.6	33,000 *	53.2	185.1	34,400 *							115
120	38.0	164.2	27,500 *	41.9	170.7	29,200 *	44.0	173.9	30,100 *	47.4	178.2	31,700 *	50.6	181.2	33,100 *							120
125	34.6	157.3	26,400 *	38.7	164.8	28,000 *	41.0	168.5	28,900 *	44.6	173.4	30,500 *	47.9	176.9	31,800 *	50.9	179.1	32,900 *				125
130	30.8	149.5	25,500 *	35.3	158.2	26,900 *	37.8	162.4	27,800 *	41.6	168.0	29,300 *	45.0	172.1	30,600 *	48.2	174.9	31,700 *				130
135	26.5	140.4	24,600 *	31.6	150.6	25,900 *	34.3	155.5	26,700 *	38.4	162.1	28,100 *	42.1	166.9	29,400 *	45.4	170.2	30,600 *				135
140	21.4	129.1	23,800 *	27.5	141.8	25,000 *	30.5	147.7	25,700 *	35.0	155.4	27,000 *	38.9	161.0	28,300 *	42.4	165.0	29,500 *	45.5	167.5	30,300 *	140
145	14.9	113.9	20,300 *	22.6	131.1	24,100 *	26.2	138.4	24,800 *	31.2	147.7	26,000 *	35.5	154.4	27,200 *	39.3	159.2	28,400 *	42.6	162.3	29,300 *	145
150				16.5	117.0	22,900 *	21.1	127.0	24,000 *	27.0	138.7	25,100 *	31.8	146.9	26,200 *	35.9	152.7	27,300 *	39.5	156.6	28,300 *	150
155				6.0	91.9	18,100 *	14.4	111.3	22,800 *	22.1	127.8	24,300 *	27.7	138.2	25,300 *	32.3	145.3	26,300 *	36.1	150.1	27,300 *	155
160										15.8	113.2	23,600 *	22.9	127.6	24,500 *	28.2	136.7	25,400 *	32.5	142.8	26,300 *	160
170													7.0	90.2	22,800 *	17.7	113.1	23,900 *	23.8	124.2	24,700 *	170
180																			9.6	90.8	23,500 *	180



# Liftcrane Luffing Jib Capacities

New York City Code

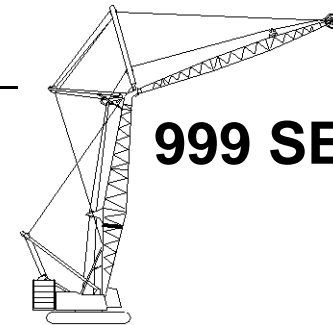
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 70 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	74.4	222.4	46,500 *																			50
55	72.4	220.9	44,500 *																			55
60	70.4	219.3	42,600 *																			60
65	68.4	217.4	40,700 *	70.8	219.0	43,100 *																65
70	66.3	215.3	38,900 *	68.8	217.1	41,200 *																70
75	64.2	213.0	37,200 *	66.7	215.1	39,500 *																75
80	62.0	210.4	35,500 *	64.6	212.8	37,800 *	66.2	213.8	38,900 *													80
85	59.9	207.7	34,000 *	62.5	210.3	36,100 *	64.1	211.5	37,300 *													85
90	57.6	204.6	32,500 *	60.3	207.6	34,600 *	61.9	208.9	35,700 *													90
95	55.3	201.3	31,000 *	58.1	204.6	33,000 *	59.7	206.2	34,200 *	62.3	207.9	35,700 *										95
100	53.0	197.7	29,700 *	55.8	201.4	31,600 *	57.5	203.1	32,700 *	60.1	205.2	34,300 *										100
105	50.6	193.8	28,400 *	53.5	197.8	30,200 *	55.2	199.8	31,300 *	57.9	202.2	32,900 *										105
110	48.0	189.5	27,100 *	51.1	194.0	28,900 *	52.8	196.1	29,900 *	55.6	198.9	31,500 *										110
115	45.4	184.8	26,000 *	48.6	189.8	27,600 *	50.4	192.2	28,600 *	53.3	195.3	30,100 *	56.0	197.4	31,400 *							115
120	42.7	179.6	24,800 *	46.0	185.1	26,400 *	47.9	187.9	27,400 *	50.8	191.4	28,900 *	53.6	193.9	30,200 *							120
125	39.8	173.9	23,800 *	43.3	180.1	25,300 *	45.2	183.1	26,200 *	48.3	187.2	27,600 *	51.2	190.0	28,900 *							125
130	36.7	167.5	22,800 *	40.4	174.5	24,200 *	42.5	177.9	25,100 *	45.7	182.5	26,500 *	48.7	185.8	27,800 *	51.5	188.0	28,800 *				130
135	33.3	160.4	21,900 *	37.4	168.3	23,200 *	39.6	172.2	24,000 *	43.0	177.4	25,400 *	46.1	181.2	26,600 *	49.0	183.8	27,700 *				135
140	29.7	152.2	21,000 *	34.1	161.3	22,200 *	36.5	165.8	23,000 *	40.1	171.8	24,300 *	43.4	176.2	25,500 *	46.4	179.2	26,600 *				140
145	25.6	142.7	20,100 *	30.5	153.4	21,300 *	33.1	158.6	22,100 *	37.1	165.5	23,300 *	40.6	170.6	24,500 *	43.7	174.3	25,500 *	46.6	176.6	26,400 *	145
150	20.7	131.0	19,400 *	26.5	144.2	20,500 *	29.4	150.3	21,200 *	33.8	158.5	22,300 *	37.5	164.5	23,500 *	40.9	168.8	24,500 *	43.9	171.6	25,400 *	150
155	14.4	115.2	18,200 *	21.8	133.1	19,700 *	25.3	140.7	20,300 *	30.1	150.4	21,400 *	34.3	157.6	22,500 *	37.9	162.7	23,500 *	41.1	166.2	24,400 *	155
160				15.9	118.5	19,100 *	20.4	128.8	19,600 *	26.1	141.1	20,600 *	30.7	149.7	21,600 *	34.7	155.9	22,600 *	38.1	160.1	23,500 *	160
170										15.3	114.6	19,200 *	22.1	129.6	20,000 *	27.2	139.2	20,900 *	31.4	145.7	21,700 *	170
180													6.8	90.8	19,000 *	17.1	114.6	19,500 *	23.0	126.2	20,200 *	180
190																			9.2	91.7	19,100 *	190

# Manitowoc Cranes, Inc.

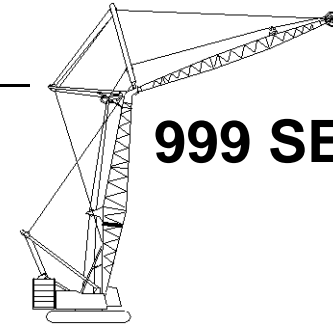
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 70 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	75.4	232.8	42,800 *																			50
55	73.6	231.4	40,900 *																			55
60	71.7	229.8	39,100 *																			60
65	69.8	228.1	37,300 *																			65
70	67.9	226.1	35,600 *	70.2	227.8	37,800 *																70
75	65.9	224.0	34,000 *	68.3	225.9	36,100 *																75
80	63.9	221.7	32,400 *	66.3	223.8	34,500 *	67.7	224.7	35,500 *													80
85	61.9	219.1	30,900 *	64.4	221.5	32,900 *	65.8	222.5	34,000 *													85
90	59.9	216.3	29,500 *	62.4	219.0	31,400 *	63.8	220.2	32,500 *													90
95	57.8	213.3	28,100 *	60.3	216.3	30,000 *	61.8	217.6	31,000 *													95
100	55.6	210.0	26,700 *	58.2	213.3	28,600 *	59.7	214.8	29,600 *	62.2	216.6	31,000 *										100
105	53.4	206.5	25,500 *	56.1	210.1	27,200 *	57.6	211.8	28,200 *	60.1	213.8	29,700 *										105
110	51.2	202.6	24,300 *	53.9	206.6	25,900 *	55.5	208.5	26,900 *	58.0	210.8	28,400 *										110
115	48.8	198.4	23,100 *	51.7	202.8	24,700 *	53.3	204.9	25,600 *	55.9	207.6	27,100 *										115
120	46.4	193.8	22,000 *	49.3	198.7	23,500 *	51.0	201.0	24,400 *	53.7	204.1	25,900 *	56.2	206.1	27,100 *							120
125	43.9	188.9	21,000 *	46.9	194.2	22,400 *	48.7	196.8	23,300 *	51.5	200.2	24,700 *	54.0	202.6	25,900 *							125
130	41.2	183.4	20,000 *	44.4	189.3	21,400 *	46.3	192.2	22,200 *	49.1	196.1	23,500 *	51.8	198.8	24,700 *							130
135	38.4	177.4	19,000 *	41.8	184.0	20,300 *	43.7	187.2	21,100 *	46.7	191.6	22,400 *	49.5	194.7	23,600 *	52.1	196.7	24,600 *				135
140	35.5	170.8	18,200 *	39.1	178.1	19,400 *	41.1	181.7	20,100 *	44.2	186.6	21,400 *	47.1	190.3	22,600 *	49.8	192.7	23,600 *				140
145	32.3	163.3	17,300 *	36.1	171.6	18,500 *	38.3	175.7	19,200 *	41.6	181.3	20,400 *	44.6	185.4	21,500 *	47.4	188.3	22,500 *				145
150	28.7	154.8	16,500 *	33.0	164.3	17,600 *	35.3	169.0	18,300 *	38.8	175.3	19,400 *	42.0	180.1	20,500 *	44.9	183.5	21,600 *	47.5	185.6	22,400 *	150
155	24.7	144.9	15,800 *	29.5	156.1	16,800 *	32.0	161.5	17,500 *	35.8	168.8	18,500 *	39.2	174.3	19,600 *	42.3	178.2	20,600 *	45.0	180.8	21,400 *	155
160	20.0	132.8	15,100 *	25.6	146.5	16,100 *	28.5	152.9	16,700 *	32.7	161.4	17,700 *	36.3	167.8	18,700 *	39.5	172.4	19,700 *	42.5	175.6	20,500 *	160
170				15.4	119.8	14,800 *	19.7	130.6	15,300 *	25.3	143.4	16,100 *	29.7	152.4	17,000 *	33.5	158.9	17,900 *	36.8	163.5	18,800 *	170
180										14.8	115.9	14,900 *	21.4	131.5	15,600 *	26.3	141.6	16,400 *	30.4	148.4	17,200 *	180
190													6.6	91.4	14,300 *	16.5	116.1	15,100 *	22.3	128.2	15,800 *	190
200																			9.0	92.5	14,500 *	200



# Liftcrane Luffing Jib Capacities

New York City Code

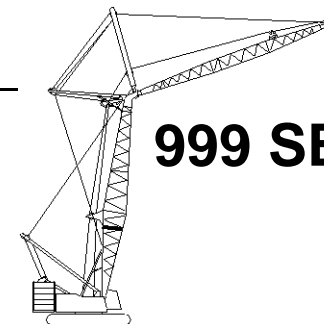
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 70 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	74.5	241.8	37,900 *																			55
60	72.8	240.3	36,200 *																			60
65	71.0	238.7	34,500 *																			65
70	69.2	236.9	32,900 *																			70
75	67.4	234.9	31,400 *	69.6	236.6	33,300 *																75
80	65.6	232.7	29,800 *	67.8	234.7	31,800 *																80
85	63.7	230.4	28,400 *	66.0	232.5	30,300 *	67.3	233.4	31,300 *													85
90	61.8	227.8	27,000 *	64.1	230.2	28,800 *	65.5	231.2	29,800 *													90
95	59.9	225.0	25,700 *	62.2	227.7	27,500 *	63.6	228.9	28,400 *													95
100	57.9	222.0	24,400 *	60.3	224.9	26,100 *	61.7	226.3	27,100 *													100
105	55.9	218.7	23,200 *	58.3	222.0	24,800 *	59.8	223.5	25,800 *	62.0	225.3	27,100 *										105
110	53.8	215.2	22,000 *	56.3	218.8	23,600 *	57.8	220.4	24,500 *	60.1	222.5	25,900 *										110
115	51.7	211.4	20,900 *	54.3	215.3	22,400 *	55.8	217.2	23,300 *	58.1	219.5	24,700 *										115
120	49.5	207.3	19,900 *	52.2	211.6	21,300 *	53.7	213.6	22,200 *	56.1	216.3	23,500 *										120
125	47.3	202.9	18,900 *	50.0	207.5	20,200 *	51.6	209.8	21,100 *	54.1	212.8	22,400 *	56.5	214.8	23,500 *							125
130	45.0	198.1	17,900 *	47.8	203.2	19,200 *	49.4	205.7	20,000 *	52.0	209.0	21,300 *	54.4	211.3	22,400 *							130
135	42.5	192.8	17,000 *	45.5	198.4	18,200 *	47.1	201.2	19,000 *	49.8	205.0	20,200 *	52.3	207.6	21,300 *							135
140	40.0	187.1	16,100 *	43.0	193.3	17,300 *	44.8	196.4	18,000 *	47.6	200.6	19,200 *	50.1	203.6	20,300 *	52.5	205.5	21,200 *				140
145	37.3	180.9	15,300 *	40.5	187.7	16,400 *	42.4	191.1	17,100 *	45.2	195.8	18,200 *	47.9	199.2	19,300 *	50.4	201.5	20,300 *				145
150	34.4	173.9	14,500 *	37.8	181.6	15,600 *	39.8	185.4	16,200 *	42.8	190.6	17,300 *	45.6	194.5	18,400 *	48.2	197.2	19,300 *				150
155	31.3	166.2	13,800 *	35.0	174.8	14,800 *	37.1	179.1	15,400 *	40.3	185.0	16,400 *	43.2	189.4	17,500 *	45.9	192.6	18,400 *				155
160	27.9	157.4	13,100 *	32.0	167.3	14,000 *	34.2	172.1	14,600 *	37.6	178.8	15,600 *	40.7	183.9	16,600 *	43.5	187.5	17,500 *	46.0	189.9	18,300 *	160
170	19.4	134.5	11,500 *	24.9	148.8	12,500 *	27.6	155.4	13,200 *	31.7	164.3	14,100 *	35.2	171.0	15,000 *	38.3	176.0	15,800 *	41.1	179.4	16,600 *	170
180				15.0	121.2	10,900 *	19.1	132.3	11,500 *	24.5	145.6	12,500 *	28.8	155.0	13,500 *	32.5	161.9	14,300 *	35.7	166.8	15,100 *	180
190										14.3	117.2	10,800 *	20.8	133.4	11,800 *	25.5	143.9	12,700 *	29.4	151.1	13,600 *	190
200													6.4	92.0	10,300 *	16.0	117.5	11,100 *	21.6	130.2	11,900 *	200
210																			8.7	93.2	10,400 *	210

# Manitowoc Cranes, Inc.

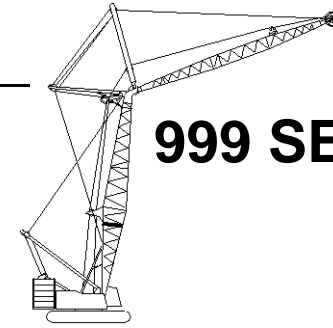
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 80 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	64.7	151.2	101,800 *b																			40
45	60.0	148.6	96,800 *b																			45
50	55.2	145.4	93,900 *b	61.9	148.9	101,400 *b																50
55	50.0	141.6	90,000 *	57.1	146.0	96,800 *b	61.0	147.7	100,900 *b													55
60	44.5	137.0	86,000 *	52.1	142.4	92,800 *	56.2	144.7	96,600 *b	62.7	147.0	102,500 *b										60
65	38.3	131.3	77,000 *	46.7	138.1	89,200 *	51.2	141.0	92,700 *	58.0	144.1	98,300 *b										65
70	31.1	124.1	69,500 *	40.8	132.9	80,500 *	45.7	136.6	88,500 *	53.0	140.7	93,300 b										70
75	21.9	114.0	60,300 *	34.0	126.4	72,500 *	39.7	131.1	79,100 *	47.7	136.5	85,700	54.6	139.6	83,200 b							75
80	2.0	90.3	41,500 *	25.8	117.7	65,600 *	32.7	124.3	71,300 *	41.9	131.5	79,200	49.4	135.6	76,900							80
85				13.7	103.7	54,600 *	24.1	115.1	64,600 *	35.3	125.2	73,500	43.8	130.9	71,400	50.9	133.9	69,300				85
90							10.2	98.9	53,300 *	27.4	117.0	67,000 *	37.5	125.1	66,600	45.4	129.5	64,600				90
95										16.5	104.6	60,900 *	30.2	117.6	62,300	39.3	124.0	60,500	46.7	127.1	58,700	95
100													20.6	107.1	58,500	32.3	117.1	56,800	40.7	121.9	55,200	100
105																23.6	107.6	53,500	34.0	115.3	52,000	105
110																8.9	90.5	50,400	25.7	106.6	49,100	110
115																			13.6	92.6	46,400	115



# Liftcrane Luffing Jib Capacities

New York City Code

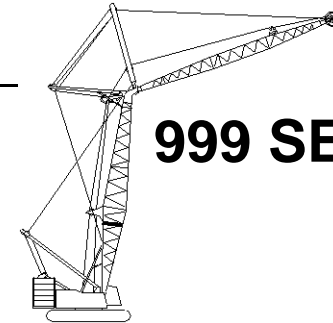
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 80 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	68.0	162.1	95,100 *b																			40
45	64.1	159.9	90,200 *b																			45
50	60.0	157.2	87,400 *b	65.6	160.1	94,700 *b																50
55	55.8	154.1	83,400 *	61.6	157.6	90,200 *b	64.9	158.9	94,100 *b													55
60	51.4	150.4	79,800 *	57.5	154.6	86,000 *	60.9	156.4	89,700 *b													60
65	46.6	146.1	76,500 *	53.1	151.2	82,200 *	56.7	153.3	85,700 *	62.4	155.6	91,100 *b										65
70	41.5	140.9	69,800 *	48.5	147.1	78,800 *	52.3	149.8	82,000 *	58.2	152.8	87,200 *										70
75	35.7	134.6	63,500 *	43.5	142.3	72,700 *	47.7	145.6	78,700 *	53.9	149.4	83,600 *										75
80	29.0	126.7	58,100 *	38.0	136.5	66,000 *	42.6	140.6	71,600 *	49.3	145.5	78,900	55.3	148.3	76,500							80
85	20.4	115.9	51,100 *	31.8	129.3	60,300 *	37.0	134.6	65,100 *	44.4	140.8	73,300	50.8	144.5	71,100							85
90	1.8	90.5	35,900 *	24.1	119.9	55,300 *	30.6	127.1	59,400 *	39.1	135.2	67,400 *	46.0	140.1	66,300	52.1	142.7	64,300				90
95				12.8	104.9	46,800 *	22.5	117.1	54,500 *	33.0	128.3	61,500 *	40.8	134.8	62,100	47.4	138.5	60,200				95
100							9.5	99.7	45,900 *	25.6	119.4	56,300 *	35.0	128.4	58,300	42.3	133.5	56,500				100
105										15.4	106.0	51,700 *	28.2	120.2	54,900	36.7	127.4	53,300	43.5	131.3	51,600	105
110													19.3	108.9	51,800	30.2	119.8	50,300	38.0	125.5	48,800	110
115																22.0	109.6	47,600	31.7	118.3	46,200	115
120																8.4	91.2	45,000	24.1	108.8	43,800	120
125																			12.7	93.8	41,500	125

# Manitowoc Cranes, Inc.

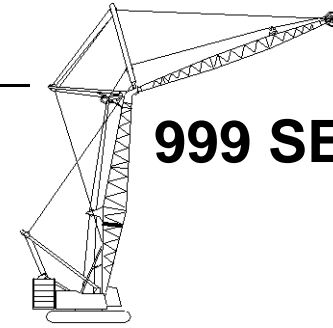
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 80 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	70.6	172.8	83,300 *b																			40
45	67.1	170.9	79,200 *b																			45
50	63.6	168.6	76,800 *b	68.5	170.9	83,000 *b																50
55	60.0	165.9	73,400 *	65.0	168.8	79,200 *b	67.9	169.8	82,300 *b													55
60	56.3	162.8	70,300 *	61.4	166.3	75,800 *	64.4	167.6	78,800 *b													60
65	52.4	159.2	67,400 *	57.8	163.3	72,500 *	60.8	165.0	75,400 *													65
70	48.2	155.1	64,800 *	53.9	159.9	69,600 *	57.1	162.0	72,400 *	62.1	164.3	76,500 *										70
75	43.8	150.2	62,400 *	49.9	156.0	66,800 *	53.2	158.5	69,400 *	58.4	161.4	73,500 *										75
80	39.0	144.6	58,800 *	45.6	151.5	64,300 *	49.1	154.5	66,800 *	54.6	158.1	70,700 *										80
85	33.6	137.8	54,100 *	40.9	146.1	61,000 *	44.8	149.8	64,300 *	50.6	154.3	68,000 *	55.8	157.0	70,900							85
90	27.3	129.3	49,900 *	35.8	139.8	56,000 *	40.1	144.4	60,200 *	46.4	149.9	65,600 *	51.9	153.3	66,100							90
95	19.3	117.6	44,200 *	29.9	132.1	51,600 *	34.8	137.8	55,300 *	41.8	144.7	62,200 *	47.7	149.1	61,900	53.0	151.5	60,000				95
100	1.7	90.6	31,600 *	22.7	122.0	47,700 *	28.8	129.8	51,000 *	36.7	138.6	57,100 *	43.3	144.2	58,100	48.9	147.5	56,300				100
105				12.0	106.0	40,900 *	21.2	119.1	47,200 *	31.0	131.2	52,600 *	38.4	138.4	54,800	44.5	142.7	53,100				105
110							9.0	100.5	40,300 *	24.2	121.6	48,600 *	32.9	131.4	51,700	39.8	137.2	50,100	45.5	140.4	48,600	110
115										14.5	107.3	44,900 *	26.5	122.7	49,000	34.5	130.6	47,500	40.9	135.1	46,000	115
120													18.1	110.5	46,200 *	28.4	122.5	45,000	35.7	128.8	43,600	120
125																20.8	111.5	42,800	29.9	121.0	41,400	125
130																7.9	92.0	40,600	22.7	110.9	39,400	130
135																			11.9	94.9	37,500	135



# Liftcrane Luffing Jib Capacities

New York City Code

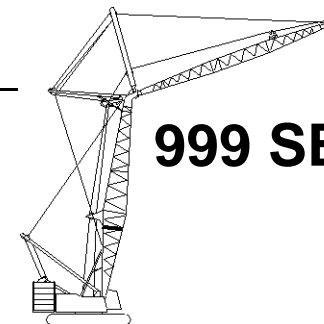
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 80 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	72.6	183.3	77,900 *b																			40
45	69.5	181.6	75,300 *b																			45
50	66.4	179.6	71,700 *	70.7	181.6	77,400 *b																50
55	63.3	177.3	68,400 *	67.7	179.7	73,800 *b																55
60	60.0	174.6	65,300 *	64.5	177.5	70,400 *	67.1	178.6	73,200 *													60
65	56.7	171.5	62,400 *	61.3	174.9	67,300 *	64.0	176.3	70,000 *													65
70	53.2	168.0	59,700 *	58.0	172.0	64,300 *	60.7	173.7	67,000 *													70
75	49.5	164.0	57,300 *	54.5	168.6	61,600 *	57.4	170.7	64,100 *	61.9	173.0	67,800 *										75
80	45.6	159.4	55,100 *	50.9	164.8	59,100 *	53.9	167.3	61,500 *	58.6	170.1	65,200 *										80
85	41.4	154.1	53,000 *	47.1	160.5	56,800 *	50.3	163.4	59,000 *	55.2	166.8	62,600 *										85
90	36.9	148.0	50,000 *	43.1	155.5	54,600 *	46.5	158.9	56,800 *	51.6	163.1	60,200 *	56.3	165.6	63,000 *							90
95	31.8	140.7	46,400 *	38.7	149.8	51,700 *	42.4	153.8	54,600 *	47.8	158.9	57,900 *	52.8	162.1	60,800 *							95
100	25.9	131.6	43,100 *	33.9	142.9	47,900 *	37.9	147.9	51,100 *	43.8	154.0	55,800 *	49.1	158.0	57,800 *							100
105	18.3	119.3	38,400 *	28.3	134.7	44,500 *	33.0	140.9	47,300 *	39.5	148.4	52,600 *	45.2	153.4	54,500 *	50.1	156.3	52,700				105
110	1.6	90.8	27,800 *	21.5	123.9	41,400 *	27.3	132.3	44,000 *	34.8	141.8	48,700 *	41.0	148.0	51,400 *	46.2	151.9	49,800				110
115				11.4	107.0	35,800 *	20.1	120.9	40,900 *	29.4	133.9	45,200 *	36.4	141.8	48,700	42.1	146.7	47,100	47.1	149.5	45,600	115
120							8.5	101.3	35,400 *	22.9	123.7	42,100 *	31.2	134.3	46,200	37.7	140.7	44,700	43.1	144.5	43,300	120
125										13.8	108.6	39,100 *	25.1	125.0	43,100 *	32.7	133.6	42,500	38.7	138.7	41,100	125
130													17.2	112.1	40,200 *	26.9	124.9	40,400	33.8	131.9	39,100	130
135																19.7	113.3	38,500	28.3	123.6	37,300	135
140																7.5	92.6	36,700	21.5	112.9	35,600	140
145																			11.3	95.9	34,000	145



# Manitowoc Cranes, Inc.

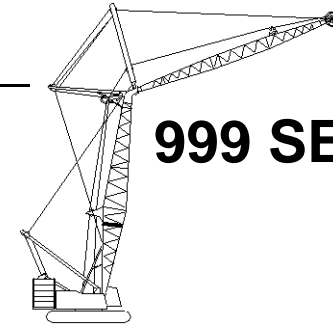
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

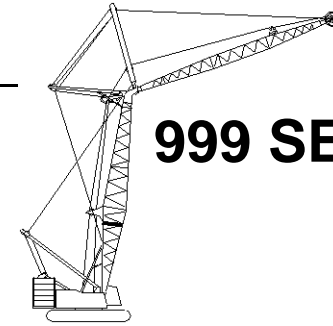
Designed And Tested  
 With The Intent To Be In  
 The Scope of ANSI B30.5



## 999 SERIES 3

### 80 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	74.2	193.8	73,400 *b																			40
45	71.5	192.2	71,500 *b																			45
50	68.7	190.4	68,600 *																			50
55	65.9	188.3	65,700 *	69.8	190.4	70,300 *																55
60	63.0	185.9	62,900 *	67.0	188.4	67,500 *																60
65	60.0	183.2	60,200 *	64.1	186.2	64,600 *	66.5	187.3	66,900 *													65
70	57.0	180.2	57,700 *	61.2	183.6	61,900 *	63.6	185.0	64,200 *													70
75	53.8	176.7	55,400 *	58.2	180.7	59,300 *	60.7	182.4	61,600 *													75
80	50.5	172.8	53,200 *	55.0	177.4	57,000 *	57.6	179.4	59,100 *	61.7	181.6	62,200 *										80
85	47.0	168.4	51,200 *	51.8	173.6	54,700 *	54.5	176.0	56,800 *	58.7	178.8	59,900 *										85
90	43.4	163.5	49,400 *	48.4	169.5	52,700 *	51.2	172.2	54,600 *	55.6	175.5	57,600 *										90
95	39.4	157.8	46,500 *	44.8	164.7	50,700 *	47.8	167.9	52,600 *	52.4	171.9	55,500 *	56.6	174.3	57,800 *							95
100	35.1	151.2	43,300 *	41.0	159.4	48,000 *	44.2	163.1	50,600 *	49.0	167.8	53,500 *	53.4	170.8	55,800 *							100
105	30.3	143.5	40,400 *	36.9	153.2	44,600 *	40.3	157.6	47,400 *	45.5	163.2	51,600 *	50.1	166.9	53,900 *							105
110	24.7	133.9	37,800 *	32.3	145.9	41,600 *	36.1	151.3	44,200 *	41.7	157.9	48,800 *	46.6	162.5	51,400 *	51.0	165.2	49,800				110
115	17.4	120.9	31,900 *	27.0	137.1	38,900 *	31.4	143.8	41,200 *	37.6	151.9	45,400 *	42.9	157.4	48,700	47.6	160.9	47,100				115
120	1.6	90.9	23,100 *	20.5	125.8	36,400 *	26.0	134.6	38,500 *	33.1	144.9	42,300 *	39.0	151.7	46,200	44.0	156.0	44,700				120
125				10.9	108.0	29,900 *	19.2	122.6	36,100 *	28.0	136.4	39,500 *	34.6	145.0	43,300 *	40.1	150.5	42,500	44.8	153.7	41,100	125
130							8.1	102.0	29,600 *	21.8	125.6	37,000 *	29.7	137.0	40,500 *	35.9	144.1	40,500	41.0	148.4	39,100	130
135										13.1	109.8	34,600 *	24.0	127.1	37,900 *	31.1	136.5	38,600	36.8	142.2	37,300	135
140													16.4	113.5	35,500 *	25.7	127.3	36,900	32.2	134.9	35,700	140
145																18.8	115.0	35,200	27.0	126.1	34,100	145
150																7.1	93.3	33,700	20.5	114.7	32,600	150
155																			10.8	96.8	31,200	155



**999 SERIES 3**

**Liftcrane Luffing Jib Capacities**

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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

**80 Ft. Boom, 120 Ft. Jib**

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	75.5	204.1	68,000 *b																			40
45	73.1	202.7	66,300 *b																			45
50	70.5	201.1	63,400 *																			50
55	68.0	199.2	60,700 *																			55
60	65.4	197.0	58,200 *	69.0	199.2	62,200 *																60
65	62.7	194.6	55,800 *	66.4	197.2	59,800 *																65
70	60.0	191.9	53,500 *	63.8	194.9	57,300 *	66.0	196.1	59,300 *													70
75	57.2	188.8	51,300 *	61.1	192.2	55,000 *	63.3	193.7	57,000 *													75
80	54.3	185.4	49,100 *	58.3	189.3	52,800 *	60.6	191.0	54,700 *													80
85	51.3	181.6	47,100 *	55.5	186.1	50,500 *	57.8	188.0	52,500 *	61.6	190.3	55,200 *										85
90	48.2	177.4	45,200 *	52.5	182.4	48,400 *	55.0	184.7	50,300 *	58.8	187.4	53,100 *										90
95	44.9	172.7	43,500 *	49.4	178.4	46,500 *	52.0	181.0	48,300 *	56.0	184.2	51,100 *										95
100	41.4	167.4	41,800 *	46.2	173.8	44,700 *	48.9	176.9	46,400 *	53.1	180.7	49,000 *	56.9	183.0	51,200 *							100
105	37.7	161.3	40,300 *	42.8	168.8	42,900 *	45.6	172.3	44,600 *	50.0	176.7	47,100 *	54.0	179.6	49,300 *							105
110	33.6	154.3	37,800 *	39.2	163.0	41,300 *	42.2	167.1	42,900 *	46.8	172.3	45,300 *	51.0	175.7	47,600 *							110
115	29.0	146.1	35,500 *	35.2	156.4	38,900 *	38.5	161.2	41,100 *	43.4	167.3	43,600 *	47.9	171.4	45,800 *	51.8	174.0	46,800				115
120	23.6	136.0	33,100 *	30.9	148.7	36,400 *	34.5	154.4	38,500 *	39.9	161.7	42,000 *	44.5	166.7	44,200 *	48.7	169.8	44,400				120
125	16.7	122.4	28,100 *	25.8	139.5	34,200 *	30.0	146.5	36,100 *	36.0	155.2	39,500 *	41.0	161.2	42,600 *	45.5	165.2	42,200				125
130	1.5	91.1	20,500 *	19.6	127.5	32,100 *	24.8	136.9	33,900 *	31.7	147.8	37,000 *	37.2	155.1	40,400 *	42.0	159.9	40,100	46.2	162.8	38,800	130
135				10.4	108.9	26,500 *	18.4	124.3	31,800 *	26.8	138.8	34,700 *	33.1	148.0	37,800 *	38.3	154.0	38,300	42.8	157.8	37,000	135
140							7.8	102.7	26,300 *	20.9	127.5	32,600 *	28.4	139.6	35,500 *	34.3	147.2	36,600	39.2	152.0	35,300	140
145										12.6	110.9	30,600 *	22.9	129.2	33,400 *	29.8	139.2	35,000	35.2	145.4	33,800	145
150													15.7	114.9	31,300 *	24.6	129.5	33,500	30.8	137.7	32,300	150
155																18.0	116.6	31,900 *	25.8	128.4	31,000	155
160																6.8	93.9	29,900 *	19.6	116.5	29,700	160

# Manitowoc Cranes, Inc.

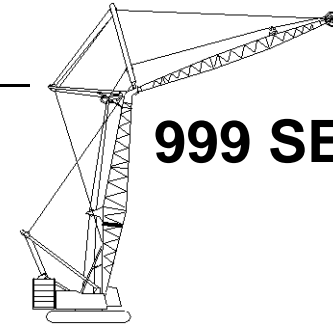
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 80 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	74.4	213.2	56,400 *b																			45
50	72.1	211.6	54,100 *																			50
55	69.8	209.9	51,800 *																			55
60	67.4	208.0	49,700 *	70.7	209.9	52,900 *																60
65	65.0	205.8	47,600 *	68.3	208.0	50,800 *																65
70	62.5	203.3	45,600 *	65.9	205.9	48,700 *	67.9	206.9	50,300 *													70
75	60.0	200.5	43,800 *	63.5	203.5	46,800 *	65.5	204.8	48,300 *													75
80	57.4	197.5	42,000 *	61.0	200.9	44,900 *	63.1	202.4	46,400 *													80
85	54.8	194.2	40,300 *	58.5	198.0	43,100 *	60.6	199.7	44,600 *													85
90	52.0	190.4	38,800 *	55.8	194.8	41,400 *	58.0	196.7	42,900 *	61.5	199.0	45,000 *										90
95	49.2	186.3	37,200 *	53.1	191.2	39,800 *	55.4	193.4	41,200 *	58.9	196.1	43,300 *										95
100	46.2	181.8	35,800 *	50.3	187.2	38,200 *	52.6	189.8	39,600 *	56.3	192.9	41,700 *										100
105	43.1	176.7	34,500 *	47.4	182.9	36,700 *	49.8	185.8	38,100 *	53.6	189.4	40,200 *	57.1	191.7	41,800 *							105
110	39.7	171.1	33,200 *	44.3	178.0	35,300 *	46.9	181.3	36,600 *	50.8	185.5	38,700 *	54.5	188.3	40,300 *							110
115	36.2	164.6	32,100 *	41.1	172.6	34,100 *	43.8	176.4	35,300 *	47.9	181.2	37,200 *	51.7	184.5	38,900 *							115
120	32.2	157.3	31,000 *	37.6	166.5	32,800 *	40.5	170.8	34,000 *	44.9	176.5	35,800 *	48.9	180.4	37,600 *	52.5	182.7	38,800 *				120
125	27.8	148.6	30,000 *	33.8	159.5	31,700 *	36.9	164.6	32,800 *	41.7	171.2	34,600 *	45.9	175.8	36,200 *	49.7	178.7	37,600 *				125
130	22.7	138.0	29,100 *	29.6	151.4	30,700 *	33.1	157.5	31,600 *	38.2	165.2	33,300 *	42.7	170.7	35,000 *	46.7	174.2	36,300 *				130
135	16.0	123.8	25,100 *	24.8	141.7	29,700 *	28.8	149.1	30,600 *	34.5	158.4	32,200 *	39.4	164.9	33,700 *	43.6	169.3	35,100 *	47.4	171.9	36,100 *	135
140	1.4	91.2	18,300 *	18.9	129.2	28,800 *	23.9	139.0	29,700 *	30.4	150.6	31,100 *	35.7	158.4	32,600 *	40.3	163.7	34,000 *	44.3	167.0	35,000 *	140
145				10.0	109.8	23,700 *	17.6	125.8	28,500 *	25.7	141.2	30,200 *	31.8	150.9	31,500 *	36.8	157.4	32,900 *	41.0	161.6	33,500	145
150							7.5	103.4	23,600 *	20.1	129.3	29,200 *	27.3	142.1	30,500 *	32.9	150.2	31,800 *	37.6	155.5	32,100	150
155										12.1	112.0	27,500 *	22.0	131.2	29,700 *	28.6	141.8	30,800 *	33.8	148.5	30,800	155
160													15.1	116.3	28,100 *	23.6	131.6	29,900 *	29.6	140.4	29,500	160
170																6.6	94.5	26,900 *	18.8	118.2	27,200	170



# Liftcrane Luffing Jib Capacities

New York City Code

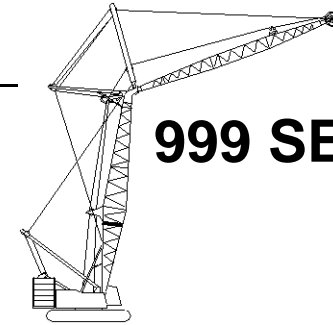
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 80 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	75.5	223.5	52,200 *																			45
50	73.4	222.1	50,000 *																			50
55	71.3	220.5	47,900 *																			55
60	69.1	218.7	45,900 *																			60
65	66.9	216.7	43,900 *	69.9	218.7	46,800 *																65
70	64.6	214.5	42,100 *	67.7	216.8	44,900 *																70
75	62.4	212.0	40,300 *	65.5	214.6	43,100 *	67.4	215.7	44,400 *													75
80	60.0	209.2	38,600 *	63.2	212.2	41,300 *	65.1	213.5	42,700 *													80
85	57.6	206.2	36,900 *	60.9	209.6	39,500 *	62.8	211.0	40,900 *													85
90	55.2	202.9	35,400 *	58.6	206.6	37,900 *	60.5	208.3	39,300 *													90
95	52.6	199.2	33,900 *	56.1	203.4	36,300 *	58.1	205.4	37,700 *	61.4	207.6	39,600 *										95
100	50.0	195.2	32,500 *	53.6	199.9	34,800 *	55.7	202.1	36,100 *	59.0	204.8	38,100 *										100
105	47.3	190.8	31,200 *	51.0	196.1	33,400 *	53.2	198.5	34,600 *	56.6	201.6	36,600 *										105
110	44.4	186.0	29,900 *	48.4	191.8	32,000 *	50.6	194.6	33,200 *	54.1	198.1	35,100 *	57.4	200.4	36,700 *							110
115	41.4	180.6	28,700 *	45.6	187.2	30,700 *	47.9	190.3	31,900 *	51.5	194.4	33,700 *	54.9	197.0	35,300 *							115
120	38.2	174.6	27,600 *	42.6	182.0	29,500 *	45.1	185.6	30,600 *	48.9	190.2	32,400 *	52.3	193.3	34,000 *							120
125	34.8	167.8	26,500 *	39.5	176.3	28,300 *	42.1	180.3	29,400 *	46.1	185.6	31,100 *	49.7	189.3	32,700 *							125
130	31.0	160.1	25,500 *	36.2	169.8	27,200 *	38.9	174.5	28,200 *	43.2	180.5	29,900 *	47.0	184.8	31,500 *	50.4	187.6	32,700 *				130
135	26.8	151.1	24,600 *	32.5	162.5	26,200 *	35.6	167.9	27,100 *	40.1	174.9	28,700 *	44.1	179.9	30,300 *	47.7	183.2	31,600 *				135
140	21.8	140.0	23,800 *	28.5	154.0	25,200 *	31.9	160.4	26,100 *	36.8	168.6	27,600 *	41.1	174.5	29,100 *	44.9	178.5	30,400 *				140
145	15.4	125.2	22,200 *	23.9	143.9	24,400 *	27.8	151.7	25,200 *	33.2	161.5	26,600 *	37.9	168.4	28,000 *	41.9	173.2	29,300 *	45.5	176.2	30,300 *	145
150	1.4	91.3	16,200 *	18.2	130.9	23,600 *	23.0	141.1	24,300 *	29.3	153.2	25,600 *	34.4	161.6	27,000 *	38.8	167.3	28,300 *	42.6	171.0	29,300 *	150
155				9.7	110.7	21,100 *	17.0	127.4	23,600 *	24.8	143.4	24,700 *	30.6	153.7	26,000 *	35.4	160.7	27,200 *	39.5	165.2	28,300 *	155
160							7.2	104.0	21,100 *	19.3	131.1	24,000 *	26.3	144.5	25,100 *	31.7	153.1	26,300 *	36.1	158.8	27,300 *	160
170													14.5	117.6	23,700 *	22.7	133.7	24,500 *	28.5	143.0	25,500 *	170
180																6.3	95.0	23,500 *	18.1	119.8	24,000 *	180

# Manitowoc Cranes, Inc.

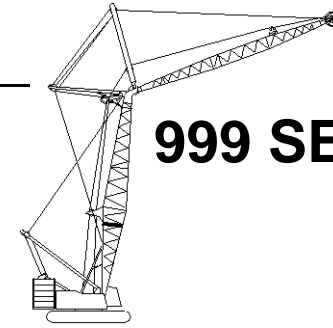
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

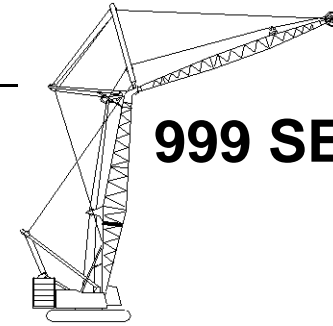
Designed And Tested  
 With The Intent To Be In  
 The Scope of ANSI B30.5



## 999 SERIES 3

### 80 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	74.6	232.5	46,400 *																			50
55	72.6	231.0	44,400 *																			55
60	70.5	229.4	42,500 *																			60
65	68.5	227.5	40,700 *																			65
70	66.4	225.4	38,900 *	69.3	227.5	41,500 *																70
75	64.3	223.1	37,200 *	67.2	225.5	39,800 *																75
80	62.2	220.6	35,600 *	65.2	223.3	38,100 *	66.9	224.4	39,400 *													80
85	60.0	217.9	34,000 *	63.0	220.9	36,500 *	64.8	222.2	37,800 *													85
90	57.8	214.9	32,500 *	60.9	218.2	34,900 *	62.7	219.7	36,200 *													90
95	55.5	211.6	31,100 *	58.7	215.3	33,400 *	60.5	217.0	34,700 *													95
100	53.1	208.0	29,800 *	56.4	212.1	31,900 *	58.3	214.0	33,200 *	61.3	216.3	35,000 *										100
105	50.7	204.1	28,500 *	54.1	208.7	30,500 *	56.0	210.8	31,800 *	59.1	213.4	33,600 *										105
110	48.2	199.8	27,200 *	51.7	204.9	29,200 *	53.7	207.3	30,400 *	56.8	210.3	32,200 *										110
115	45.6	195.1	26,100 *	49.2	200.7	28,000 *	51.2	203.4	29,100 *	54.5	206.9	30,800 *	57.5	209.0	32,300 *							115
120	42.9	190.0	24,900 *	46.6	196.2	26,700 *	48.8	199.2	27,800 *	52.1	203.1	29,500 *	55.2	205.7	31,000 *							120
125	40.0	184.3	23,900 *	43.9	191.3	25,600 *	46.2	194.7	26,600 *	49.6	199.1	28,300 *	52.9	202.1	29,800 *							125
130	36.9	178.0	22,900 *	41.1	185.8	24,500 *	43.5	189.6	25,500 *	47.1	194.6	27,100 *	50.4	198.1	28,600 *							130
135	33.6	170.9	21,900 *	38.1	179.8	23,500 *	40.6	184.1	24,400 *	44.4	189.8	26,000 *	47.9	193.8	27,400 *	51.1	196.4	28,600 *				135
140	30.0	162.8	21,100 *	34.9	173.0	22,500 *	37.6	177.9	23,400 *	41.6	184.4	24,900 *	45.3	189.1	26,300 *	48.6	192.2	27,500 *				140
145	25.9	153.4	20,200 *	31.4	165.4	21,600 *	34.3	171.0	22,400 *	38.7	178.5	23,800 *	42.5	183.9	25,200 *	46.0	187.6	26,400 *				145
150	21.1	141.9	19,500 *	27.5	156.5	20,700 *	30.8	163.2	21,500 *	35.5	171.9	22,900 *	39.6	178.2	24,200 *	43.3	182.5	25,400 *	46.6	185.2	26,400 *	150
155	14.9	126.5	18,900 *	23.1	145.9	19,900 *	26.8	154.1	20,700 *	32.1	164.4	21,900 *	36.5	171.8	23,200 *	40.4	176.9	24,400 *	43.9	180.3	25,400 *	155
160	1.3	91.4	14,500 *	17.6	132.4	19,200 *	22.2	143.1	19,900 *	28.3	155.8	21,100 *	33.2	164.6	22,300 *	37.4	170.7	23,400 *	41.1	174.8	24,500 *	160
170							7.0	104.7	18,800 *	18.7	132.7	19,500 *	25.4	146.8	20,600 *	30.6	155.9	21,600 *	34.9	162.0	22,600 *	170
180													14.0	118.8	19,200 *	21.9	135.6	20,000 *	27.5	145.5	21,000 *	180
190																6.1	95.6	19,000 *	17.5	121.4	19,600 *	190



**999 SERIES 3**

**Liftcrane Luffing Jib Capacities**

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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

**80 Ft. Boom, 160 Ft. Jib**

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	75.5	242.9	42,700 *																			50
55	73.7	241.5	40,900 *																			55
60	71.8	239.9	39,100 *																			60
65	69.9	238.2	37,300 *																			65
70	68.0	236.3	35,700 *	70.6	238.2	38,100 *																70
75	66.0	234.2	34,000 *	68.7	236.3	36,400 *																75
80	64.1	231.8	32,500 *	66.8	234.3	34,800 *																80
85	62.1	229.3	31,000 *	64.8	232.0	33,300 *	66.5	233.2	34,400 *													85
90	60.0	226.5	29,500 *	62.8	229.6	31,700 *	64.5	230.9	32,900 *													90
95	57.9	223.5	28,100 *	60.8	226.9	30,300 *	62.5	228.4	31,500 *													95
100	55.8	220.3	26,800 *	58.7	224.0	28,900 *	60.5	225.7	30,000 *													100
105	53.6	216.7	25,600 *	56.6	220.8	27,500 *	58.4	222.7	28,700 *	61.2	224.9	30,300 *										105
110	51.3	212.9	24,300 *	54.5	217.4	26,200 *	56.2	219.5	27,400 *	59.1	222.1	29,000 *										110
115	49.0	208.7	23,200 *	52.2	213.7	25,000 *	54.1	216.0	26,100 *	57.0	219.0	27,800 *										115
120	46.6	204.2	22,100 *	49.9	209.6	23,800 *	51.8	212.2	24,900 *	54.8	215.6	26,500 *	57.7	217.7	27,900 *							120
125	44.1	199.2	21,100 *	47.5	205.2	22,700 *	49.5	208.1	23,700 *	52.6	211.9	25,300 *	55.5	214.4	26,700 *							125
130	41.4	193.8	20,100 *	45.1	200.5	21,600 *	47.1	203.7	22,600 *	50.3	207.9	24,100 *	53.3	210.8	25,500 *							130
135	38.6	187.9	19,100 *	42.5	195.2	20,600 *	44.6	198.8	21,500 *	48.0	203.6	23,000 *	51.1	207.0	24,400 *							135
140	35.7	181.3	18,200 *	39.7	189.5	19,600 *	42.0	193.5	20,500 *	45.5	198.9	21,900 *	48.7	202.7	23,300 *	51.7	205.2	24,400 *				140
145	32.5	173.9	17,400 *	36.9	183.2	18,700 *	39.3	187.7	19,600 *	42.9	193.8	20,900 *	46.3	198.2	22,300 *	49.4	201.1	23,400 *				145
150	29.0	165.5	16,600 *	33.8	176.1	17,900 *	36.3	181.3	18,600 *	40.2	188.1	20,000 *	43.8	193.2	21,200 *	47.0	196.6	22,400 *				150
155	25.0	155.7	15,900 *	30.4	168.1	17,000 *	33.2	174.1	17,800 *	37.4	181.9	19,000 *	41.1	187.7	20,300 *	44.5	191.7	21,400 *	47.5	194.2	22,400 *	155
160	20.4	143.7	15,200 *	26.6	158.9	16,300 *	29.8	165.9	17,000 *	34.3	175.0	18,200 *	38.3	181.7	19,400 *	41.9	186.4	20,500 *	45.0	189.4	21,400 *	160
170	1.3	91.5	12,900 *	17.0	134.0	14,900 *	21.5	145.0	15,500 *	27.3	158.3	16,500 *	32.1	167.5	17,600 *	36.2	174.1	18,700 *	39.7	178.5	19,700 *	170
180							6.7	105.3	14,300 *	18.1	134.4	15,200 *	24.6	149.0	16,100 *	29.6	158.6	17,100 *	33.7	165.1	18,000 *	180
190													13.6	120.1	14,900 *	21.2	137.5	15,600 *	26.6	147.9	16,500 *	190
200																5.9	96.1	14,400 *	16.9	122.9	15,200 *	200

# Manitowoc Cranes, Inc.

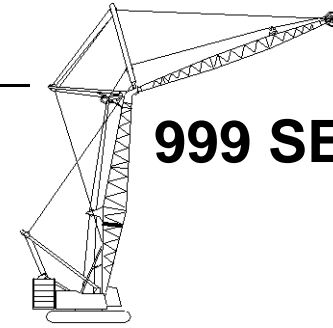
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 80 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	74.7	251.9	37,800 *																			55
60	72.9	250.4	36,200 *																			60
65	71.1	248.8	34,500 *																			65
70	69.3	247.0	32,900 *																			70
75	67.5	245.0	31,400 *	70.0	247.0	33,600 *																75
80	65.7	242.9	29,900 *	68.2	245.1	32,100 *																80
85	63.8	240.5	28,500 *	66.4	243.0	30,600 *	67.9	244.0	31,700 *													85
90	61.9	238.0	27,100 *	64.6	240.7	29,200 *	66.1	241.9	30,300 *													90
95	60.0	235.2	25,800 *	62.7	238.2	27,800 *	64.2	239.6	28,900 *													95
100	58.1	232.2	24,500 *	60.8	235.6	26,400 *	62.3	237.0	27,500 *													100
105	56.0	228.9	23,300 *	58.8	232.6	25,200 *	60.4	234.3	26,200 *	63.0	236.3	27,700 *										105
110	54.0	225.4	22,100 *	56.8	229.5	23,900 *	58.5	231.4	25,000 *	61.1	233.6	26,500 *										110
115	51.9	221.7	21,000 *	54.8	226.1	22,700 *	56.5	228.2	23,700 *	59.2	230.7	25,300 *										115
120	49.7	217.6	20,000 *	52.7	222.4	21,600 *	54.4	224.7	22,600 *	57.2	227.6	24,100 *										120
125	47.5	213.2	18,900 *	50.6	218.5	20,500 *	52.3	221.0	21,500 *	55.2	224.3	22,900 *	57.8	226.4	24,200 *							125
130	45.1	208.4	18,000 *	48.3	214.2	19,500 *	50.2	217.0	20,400 *	53.1	220.7	21,800 *	55.8	223.1	23,100 *							130
135	42.7	203.2	17,100 *	46.0	209.6	18,500 *	47.9	212.7	19,400 *	50.9	216.8	20,800 *	53.7	219.6	22,100 *							135
140	40.1	197.5	16,200 *	43.6	204.5	17,600 *	45.6	208.0	18,400 *	48.7	212.5	19,700 *	51.6	215.8	21,000 *							140
145	37.5	191.3	15,400 *	41.1	199.1	16,700 *	43.2	202.9	17,500 *	46.5	208.0	18,800 *	49.4	211.6	20,000 *	52.2	214.0	21,100 *				145
150	34.6	184.4	14,600 *	38.5	193.1	15,800 *	40.7	197.3	16,600 *	44.1	203.0	17,800 *	47.2	207.2	19,000 *	50.1	210.0	20,100 *				150
155	31.5	176.7	13,800 *	35.7	186.5	15,000 *	38.0	191.2	15,700 *	41.6	197.6	16,900 *	44.8	202.4	18,100 *	47.8	205.6	19,200 *				155
160	28.1	168.0	13,100 *	32.7	179.1	14,200 *	35.2	184.5	14,900 *	39.0	191.7	16,100 *	42.4	197.1	17,200 *	45.5	200.9	18,300 *				160
170	19.8	145.5	11,600 *	25.8	161.3	12,800 *	28.9	168.5	13,400 *	33.3	178.0	14,500 *	37.1	185.1	15,500 *	40.6	190.2	16,600 *	43.6	193.5	17,500 *	170
180	1.3	91.7	10,100 *	16.5	135.4	11,100 *	20.8	146.9	11,800 *	26.5	160.7	13,000 *	31.1	170.4	14,000 *	35.1	177.3	15,000 *	38.5	182.0	15,900 *	180
190							6.5	105.8	10,300 *	17.5	135.9	11,300 *	23.8	151.1	12,400 *	28.7	161.2	13,500 *	32.7	168.1	14,400 *	190
200													13.2	121.2	10,800 *	20.6	139.4	11,800 *	25.8	150.2	12,800 *	200
210																5.7	96.6	10,300 *	16.4	124.3	11,200 *	210



# Liftcrane Luffing Jib Capacities

New York City Code

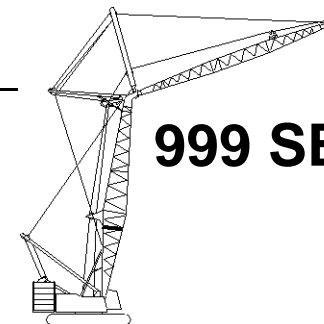
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 90 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	60.4	158.8	96,900 *b																			45
50	55.5	155.7	94,000 *b	63.0	159.5	102,400 *b																50
55	50.4	151.9	90,200 *	58.3	156.7	97,800 *b	62.7	158.5	102,500 *b													55
60	44.9	147.3	86,700 *	53.3	153.3	93,700 *b	57.9	155.6	98,000 *b													60
65	38.7	141.7	78,100 *	48.0	149.2	90,100 *	53.0	152.2	94,000 *b	60.4	155.3	100,300 *b										65
70	31.6	134.6	70,500 *	42.3	144.2	83,300 *	47.7	148.0	90,400 *	55.6	152.2	92,200 b										70
75	22.6	124.9	63,800 *	35.8	138.0	74,800 *	41.8	143.0	82,600 *	50.5	148.4	84,700	58.0	151.2	81,800 b							75
80	6.0	105.3	46,300 *	28.0	130.0	67,700 *	35.3	136.7	74,400 *	45.0	143.9	78,300	53.0	147.8	75,600							80
85				17.4	118.1	61,400 *	27.4	128.5	67,300 *	38.8	138.3	72,700	47.7	143.7	70,200							85
90							16.4	116.1	61,100 *	31.7	131.2	67,800	41.9	138.6	65,500	50.1	142.4	63,200				90
95										22.8	121.5	63,500	35.3	132.4	61,300	44.5	137.8	59,200				95
100										6.6	102.5	56,100 *	27.5	124.2	57,600	38.3	132.1	55,600	46.7	135.8	53,700	100
105													16.5	111.8	54,200	31.1	124.9	52,400	40.7	130.6	50,500	105
110																22.0	114.9	49,400	34.0	124.0	47,700	110
115																2.6	91.9	46,600	25.7	115.3	45,200	115
120																			13.6	101.3	42,800	120



# Manitowoc Cranes, Inc.

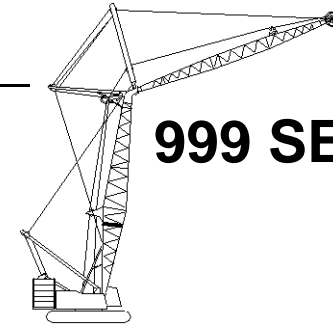
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 90 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	68.3	172.3	95,000 *b																			40
45	64.4	170.1	90,300 *b																			45
50	60.3	167.4	87,500 *b	66.6	170.5	95,500 *b																50
55	56.1	164.3	83,600 *	62.6	168.2	91,100 *b	66.3	169.6	95,400 *b													55
60	51.7	160.7	80,000 *	58.5	165.3	87,000 *b	62.3	167.2	91,100 *b													60
65	47.0	156.4	76,700 *	54.2	162.0	83,100 *	58.2	164.3	87,000 *													65
70	41.8	151.3	70,800 *	49.6	158.1	79,700 *	53.9	160.9	83,300 *	60.4	164.0	89,100 *b										70
75	36.1	145.1	64,400 *	44.8	153.5	75,100 *	49.3	157.0	79,900 *	56.2	160.9	84,400										75
80	29.5	137.4	58,900 *	39.4	147.9	68,100 *	44.4	152.3	74,600 *	51.7	157.2	78,000										80
85	21.2	126.8	54,000 *	33.4	141.1	62,100 *	39.0	146.7	67,700 *	47.0	153.0	72,500	53.9	156.5	69,900							85
90	5.7	105.8	40,100 *	26.2	132.4	56,800 *	32.9	139.8	61,800 *	41.9	147.9	67,600	49.4	152.6	65,200							90
95				16.3	119.5	52,100 *	25.6	130.9	56,600 *	36.2	141.7	63,300	44.5	147.9	61,000	51.4	151.2	58,800				95
100										29.6	134.0	59,400 *	39.1	142.3	57,300	46.6	146.9	55,300				100
105										21.3	123.5	54,400 *	33.0	135.4	54,000	41.5	141.7	52,100				105
110										6.2	103.1	48,600 *	25.7	126.5	51,000	35.8	135.4	49,200	43.5	139.9	47,400	110
115													15.5	113.2	48,200	29.1	127.6	46,500	38.0	134.1	44,900	115
120																20.5	116.7	44,100	31.7	126.9	42,500	120
125																2.5	92.1	41,800	24.1	117.5	40,400	125
130																			12.7	102.4	38,400	130



# Liftcrane Luffing Jib Capacities

New York City Code

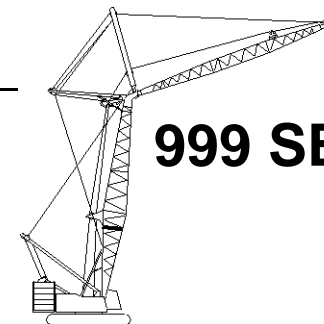
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 90 Ft. Boom, 90 Ft. Jib

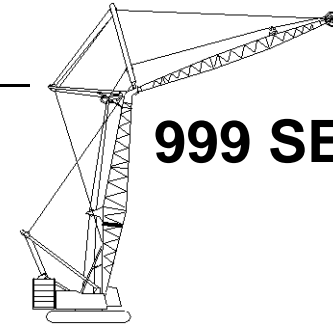
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	70.8	182.9	83,200 *b																			40
45	67.4	181.0	79,200 *b																			45
50	63.9	178.8	76,900 *b	69.3	181.3	83,600 *b																50
55	60.3	176.1	73,500 *	65.9	179.3	79,900 *b																55
60	56.5	173.0	70,400 *	62.3	176.8	76,500 *	65.6	178.3	79,800 *b													60
65	52.6	169.5	67,500 *	58.7	174.0	73,200 *	62.1	175.8	76,500 *													65
70	48.5	165.4	64,900 *	54.9	170.7	70,300 *	58.4	173.0	73,400 *													70
75	44.1	160.6	62,500 *	50.9	166.9	67,500 *	54.6	169.7	70,500 *	60.3	172.6	74,900 *										75
80	39.3	155.0	59,600 *	46.6	162.6	64,900 *	50.6	165.8	67,700 *	56.6	169.6	72,100 *										80
85	34.0	148.3	54,800 *	42.1	157.4	62,600 *	46.3	161.4	65,200 *	52.7	166.0	69,500 *										85
90	27.8	139.9	50,600 *	37.1	151.4	57,600 *	41.7	156.2	62,500 *	48.6	161.9	66,900 *	54.6	165.3	65,000							90
95	19.9	128.6	46,700 *	31.4	144.0	53,000 *	36.7	150.1	57,400 *	44.2	157.2	63,100	50.6	161.4	60,800							95
100	5.3	106.3	35,200 *	24.6	134.7	49,000 *	31.0	142.6	52,800 *	39.4	151.6	59,300	46.4	157.0	57,100	52.4	160.0	55,000				100
105				15.3	120.9	45,300 *	24.1	133.1	48,800 *	34.1	144.9	55,300 *	41.8	151.8	53,800	48.3	155.8	51,900				105
110							14.4	118.8	45,100 *	27.9	136.5	51,000 *	36.8	145.7	50,800	43.8	151.0	49,000				110
115										20.1	125.3	47,100 *	31.1	138.3	48,100	39.0	145.3	46,400	45.5	149.1	44,600	115
120										5.8	103.6	42,900 *	24.2	128.7	45,600	33.6	138.5	44,000	40.9	143.8	42,300	120
125													14.6	114.5	43,300	27.4	130.1	41,800	35.7	137.5	40,200	125
130																19.3	118.5	39,800	29.9	129.7	38,300	130
135																2.3	92.4	37,800	22.7	119.6	36,500	135
140																			11.9	103.5	34,800	140



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 90 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	72.8	193.5	77,800 *b																			40
45	69.8	191.8	75,200 *b																			45
50	66.7	189.8	71,700 *																			50
55	63.5	187.4	68,400 *	68.4	190.1	74,400 *b																55
60	60.3	184.8	65,400 *	65.3	188.0	71,100 *																60
65	56.9	181.7	62,500 *	62.1	185.5	68,000 *	65.1	187.0	70,900 *													65
70	53.4	178.2	59,900 *	58.8	182.7	65,000 *	61.9	184.5	67,900 *													70
75	49.8	174.3	57,500 *	55.4	179.4	62,300 *	58.6	181.6	65,100 *													75
80	45.9	169.7	55,200 *	51.8	175.7	59,700 *	55.1	178.4	62,400 *	60.3	181.3	66,500 *										80
85	41.7	164.5	53,200 *	48.1	171.5	57,400 *	51.6	174.6	59,900 *	57.0	178.2	63,900 *										85
90	37.2	158.5	50,700 *	44.1	166.7	55,200 *	47.8	170.4	57,600 *	53.5	174.8	61,400 *										90
95	32.2	151.2	47,000 *	39.8	161.2	53,100 *	43.8	165.5	55,500 *	49.8	170.8	59,100 *	55.2	174.0	60,500							95
100	26.3	142.3	43,700 *	35.1	154.6	49,200 *	39.5	159.9	52,900 *	45.9	166.3	57,000 *	51.6	170.2	56,800							100
105	18.9	130.3	40,600 *	29.8	146.8	45,600 *	34.8	153.3	49,000 *	41.8	161.1	54,900 *	47.9	166.0	53,500							105
110	5.1	106.8	30,900 *	23.4	136.8	42,400 *	29.4	145.3	45,500 *	37.3	155.0	51,100 *	43.9	161.2	50,500	49.5	164.7	48,600				110
115				14.5	122.2	39,400 *	22.8	135.1	42,300 *	32.3	147.8	47,400 *	39.6	155.6	47,800	45.6	160.2	46,000				115
120							13.7	120.0	39,300 *	26.4	139.0	44,000 *	34.8	149.0	45,400	41.5	154.9	43,600	47.1	158.2	42,000	120
125										19.0	127.0	41,000 *	29.4	141.0	43,100	36.9	148.8	41,500	43.1	153.2	39,900	125
130										5.5	104.1	37,900 *	22.9	130.8	41,000	31.9	141.5	39,500	38.7	147.4	38,000	130
135													13.8	115.8	39,100	25.9	132.4	37,600	33.8	140.6	36,200	135
140																18.3	120.1	35,900	28.3	132.3	34,600	140
145																2.2	92.6	34,200	21.5	121.5	33,000	145
150																			11.3	104.5	31,500	150



# Liftcrane Luffing Jib Capacities

New York City Code

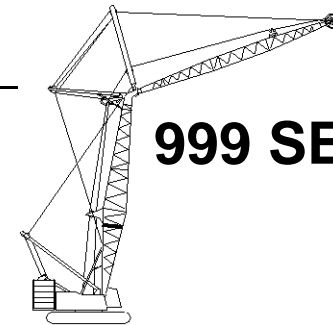
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 90 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	74.4	203.9	73,100 *b																			40
45	71.7	202.3	71,300 *b																			45
50	68.9	200.6	68,400 *																			50
55	66.1	198.5	65,600 *	70.5	200.8	70,600 *b																55
60	63.2	196.1	62,900 *	67.7	198.9	67,900 *																60
65	60.2	193.4	60,300 *	64.8	196.7	65,200 *	67.5	197.9	67,600 *													65
70	57.2	190.4	57,700 *	61.9	194.2	62,500 *	64.6	195.7	65,000 *													70
75	54.0	187.0	55,500 *	58.9	191.3	59,900 *	61.7	193.2	62,400 *													75
80	50.7	183.1	53,300 *	55.8	188.1	57,500 *	58.7	190.3	59,900 *													80
85	47.3	178.8	51,300 *	52.6	184.5	55,300 *	55.6	187.1	57,600 *	60.3	190.0	61,000 *										85
90	43.6	173.8	49,500 *	49.3	180.5	53,200 *	52.4	183.4	55,400 *	57.2	186.9	58,700 *										90
95	39.7	168.2	47,100 *	45.7	175.9	51,200 *	49.0	179.3	53,300 *	54.1	183.5	56,600 *										95
100	35.4	161.7	43,900 *	42.0	170.7	49,300 *	45.5	174.7	51,400 *	50.8	179.7	54,500 *	55.6	182.7	56,700							100
105	30.7	154.1	40,900 *	37.9	164.7	45,800 *	41.7	169.5	49,100 *	47.3	175.3	52,600 *	52.4	179.0	53,500							105
110	25.1	144.6	38,300 *	33.4	157.7	42,700 *	37.6	163.4	45,600 *	43.7	170.4	50,700 *	49.0	174.9	50,500							110
115	18.0	131.9	33,900 *	28.4	149.4	39,900 *	33.1	156.4	42,500 *	39.8	164.8	47,500 *	45.5	170.3	47,800	50.5	173.6	46,000				115
120	4.8	107.2	25,800 *	22.3	138.8	37,300 *	28.0	147.9	39,700 *	35.5	158.3	44,200 *	41.7	165.1	45,400	47.1	169.2	43,600				120
125				13.9	123.5	33,400 *	21.8	137.1	37,200 *	30.8	150.7	41,300 *	37.6	159.1	43,100	43.4	164.3	41,500				125
130							13.1	121.2	34,300 *	25.2	141.3	38,600 *	33.1	152.0	41,100	39.5	158.6	39,500	44.8	162.4	38,000	130
135										18.1	128.7	36,100 *	28.0	143.6	39,200	35.2	152.0	37,700	41.0	157.0	36,200	135
140										5.3	104.5	31,800 *	21.8	132.8	37,400 *	30.3	144.3	36,000	36.8	150.8	34,600	140
145													13.2	116.9	35,000 *	24.7	134.7	34,400	32.2	143.6	33,100	145
150																17.5	121.7	32,900	27.0	134.7	31,600	150
155																2.1	92.7	31,400	20.5	123.4	30,300	155
160																			10.8	105.5	29,000	160

# Manitowoc Cranes, Inc.

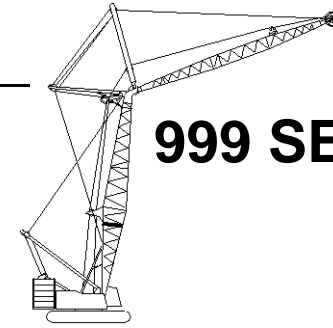
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 90 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	75.7	214.2	67,700 *b																			40
45	73.2	212.8	66,100 *b																			45
50	70.7	211.2	63,300 *																			50
55	68.2	209.3	60,700 *																			55
60	65.6	207.2	58,200 *	69.6	209.6	62,600 *																60
65	62.9	204.8	55,800 *	67.0	207.6	60,100 *																65
70	60.2	202.1	53,500 *	64.4	205.4	57,800 *	66.9	206.7	59,800 *													70
75	57.4	199.1	51,400 *	61.7	202.8	55,500 *	64.2	204.4	57,600 *													75
80	54.5	195.7	49,200 *	59.0	200.0	53,300 *	61.6	201.8	55,400 *													80
85	51.6	191.9	47,200 *	56.2	196.8	51,100 *	58.8	199.0	53,200 *	63.0	201.3	56,000 *										85
90	48.4	187.7	45,400 *	53.3	193.3	48,900 *	56.0	195.8	51,100 *	60.3	198.6	54,100 *										90
95	45.2	183.0	43,600 *	50.2	189.3	47,000 *	53.0	192.2	49,000 *	57.5	195.6	52,100 *										95
100	41.7	177.7	41,900 *	47.0	184.9	45,100 *	50.0	188.2	47,100 *	54.6	192.2	50,000 *										100
105	38.0	171.8	40,400 *	43.7	180.0	43,400 *	46.8	183.8	45,200 *	51.6	188.5	48,100 *	56.0	191.4	50,600 *							105
110	33.9	164.9	38,300 *	40.1	174.4	41,800 *	43.4	178.8	43,500 *	48.5	184.3	46,300 *	53.1	187.8	48,700 *							110
115	29.3	156.7	35,900 *	36.2	168.0	39,800 *	39.8	173.2	41,900 *	45.2	179.6	44,600 *	50.0	183.8	47,000 *							115
120	24.0	146.8	33,700 *	32.0	160.7	37,300 *	35.9	166.7	39,700 *	41.7	174.3	42,900 *	46.8	179.4	45,000 *	51.4	182.4	43,300				120
125	17.2	133.5	29,900 *	27.1	151.8	35,000 *	31.6	159.3	37,200 *	38.0	168.3	41,200 *	43.5	174.4	42,800 *	48.2	178.2	41,100				125
130	4.6	107.6	22,900 *	21.3	140.7	32,900 *	26.8	150.3	34,900 *	34.0	161.5	38,600 *	39.9	168.8	40,800 *	45.0	173.5	39,100				130
135				13.3	124.7	29,600 *	20.8	139.0	32,800 *	29.4	153.4	36,200 *	36.0	162.4	38,900 *	41.5	168.1	37,300	46.2	171.5	35,800	135
140							12.5	122.3	30,500 *	24.1	143.4	34,000 *	31.7	154.9	37,100 *	37.7	162.1	35,600	42.8	166.4	34,200	140
145										17.4	130.2	31,900 *	26.8	146.0	35,100 *	33.6	155.1	34,100	39.2	160.7	32,700	145
150										5.1	105.0	28,400 *	20.9	134.7	33,000 *	29.0	146.9	32,600	35.2	154.1	31,300	150
155													12.6	118.1	30,900 *	23.6	136.8	31,300	30.8	146.4	30,000	155
160																16.7	123.2	30,000	25.8	137.1	28,800	160
170																			10.3	106.4	26,500	170



# Liftcrane Luffing Jib Capacities

New York City Code

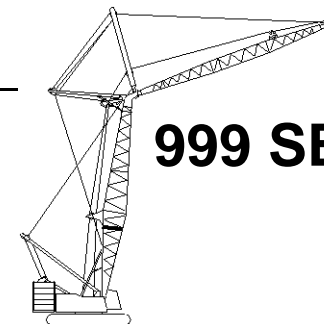
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 90 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	74.6	223.2	56,000 *b																			45
50	72.3	221.8	54,000 *																			50
55	69.9	220.0	51,800 *																			55
60	67.6	218.1	49,600 *																			60
65	65.2	215.9	47,600 *	68.9	218.4	51,100 *																65
70	62.7	213.5	45,700 *	66.5	216.4	49,100 *																70
75	60.2	210.7	43,800 *	64.1	214.1	47,200 *	66.3	215.4	48,900 *													75
80	57.6	207.7	42,100 *	61.6	211.5	45,300 *	63.9	213.1	47,000 *													80
85	55.0	204.4	40,400 *	59.1	208.6	43,500 *	61.4	210.5	45,200 *													85
90	52.2	200.7	38,800 *	56.5	205.5	41,800 *	58.9	207.6	43,500 *	62.7	210.0	45,700 *										90
95	49.4	196.6	37,300 *	53.8	202.0	40,200 *	56.3	204.4	41,800 *	60.2	207.3	44,100 *										95
100	46.4	192.1	35,900 *	51.0	198.2	38,600 *	53.6	200.9	40,200 *	57.7	204.3	42,500 *										100
105	43.3	187.1	34,600 *	48.1	193.9	37,100 *	50.8	197.1	38,600 *	55.0	200.9	41,000 *										105
110	40.0	181.5	33,300 *	45.1	189.2	35,700 *	47.9	192.8	37,200 *	52.3	197.3	39,500 *	56.3	200.0	41,300 *							110
115	36.4	175.1	32,200 *	41.9	183.9	34,400 *	44.9	188.0	35,800 *	49.4	193.2	38,000 *	53.6	196.5	39,900 *							115
120	32.5	167.8	31,100 *	38.5	178.0	33,200 *	41.6	182.7	34,500 *	46.5	188.7	36,600 *	50.8	192.7	38,500 *							120
125	28.2	159.3	30,100 *	34.8	171.2	32,000 *	38.2	176.7	33,200 *	43.3	183.7	35,300 *	47.9	188.4	37,200 *	52.1	191.2	38,600 *				125
130	23.1	148.9	29,200 *	30.7	163.5	31,000 *	34.5	169.9	32,100 *	40.0	178.0	34,000 *	44.9	183.6	35,900 *	49.2	187.1	37,400 *				130
135	16.6	135.0	26,700 *	26.0	154.2	30,000 *	30.4	162.0	31,000 *	36.5	171.7	32,800 *	41.7	178.3	34,600 *	46.2	182.6	36,200 *				135
140	4.4	108.0	20,500 *	20.5	142.6	29,200 *	25.7	152.7	30,100 *	32.6	164.4	31,700 *	38.2	172.3	33,400 *	43.1	177.5	35,000 *	47.4	180.5	34,000	140
145				12.7	125.8	26,500 *	20.0	140.8	29,200 *	28.2	155.9	30,700 *	34.5	165.6	32,300 *	39.8	171.8	33,800 *	44.3	175.7	32,500	145
150							12.0	123.4	27,400 *	23.1	145.5	29,800 *	30.4	157.7	31,300 *	36.2	165.4	32,400	41.0	170.2	31,100	150
155										16.7	131.7	28,600 *	25.7	148.3	30,300 *	32.3	158.1	31,100	37.6	164.1	29,800	155
160										4.9	105.4	25,700 *	20.1	136.5	29,500 *	27.9	149.4	29,800	33.8	157.2	28,600	160
170																16.1	124.7	27,500	24.8	139.3	26,300	170
180																9.9	107.3	24,300	9.9	107.3	24,300	180

# Manitowoc Cranes, Inc.

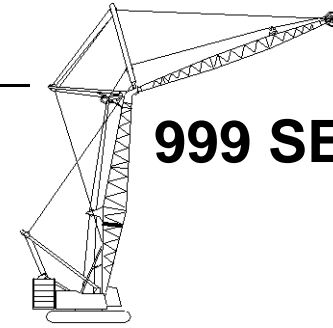
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

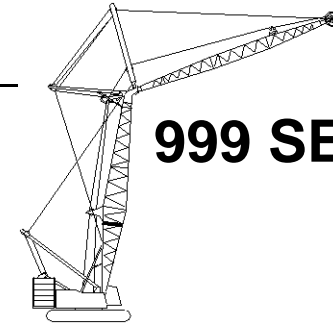
Designed And Tested  
 With The Intent To Be In  
 The Scope of ANSI B30.5



## 999 SERIES 3

### 90 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.7	233.6	52,000 *																			45
50	73.6	232.2	49,900 *																			50
55	71.4	230.6	47,800 *																			55
60	69.2	228.9	45,800 *																			60
65	67.0	226.8	43,900 *	70.5	229.1	47,100 *																65
70	64.8	224.6	42,100 *	68.3	227.2	45,200 *																70
75	62.5	222.1	40,300 *	66.1	225.1	43,400 *																75
80	60.2	219.4	38,600 *	63.8	222.7	41,600 *	65.9	224.1	43,200 *													80
85	57.8	216.4	37,000 *	61.5	220.2	39,900 *	63.6	221.8	41,500 *													85
90	55.3	213.1	35,500 *	59.1	217.3	38,300 *	61.3	219.2	39,800 *													90
95	52.8	209.5	34,000 *	56.7	214.2	36,700 *	59.0	216.3	38,200 *	62.6	218.7	40,300 *										95
100	50.2	205.5	32,600 *	54.2	210.7	35,200 *	56.6	213.1	36,700 *	60.2	215.9	38,800 *										100
105	47.5	201.1	31,300 *	51.7	207.0	33,700 *	54.1	209.7	35,200 *	57.8	212.9	37,300 *										105
110	44.6	196.3	30,000 *	49.0	202.8	32,400 *	51.5	205.9	33,700 *	55.4	209.6	35,900 *										110
115	41.7	191.0	28,800 *	46.3	198.3	31,100 *	48.8	201.7	32,400 *	52.9	206.0	34,500 *	56.6	208.7	36,200 *							115
120	38.5	185.0	27,700 *	43.4	193.2	29,800 *	46.1	197.1	31,100 *	50.2	202.0	33,100 *	54.1	205.3	34,900 *							120
125	35.1	178.3	26,600 *	40.3	187.6	28,600 *	43.1	192.0	29,900 *	47.5	197.7	31,800 *	51.5	201.5	33,600 *							125
130	31.3	170.7	25,600 *	37.0	181.4	27,500 *	40.1	186.4	28,700 *	44.7	192.9	30,600 *	48.9	197.3	32,300 *	52.7	200.0	33,700 *				130
135	27.1	161.7	24,700 *	33.5	174.3	26,500 *	36.8	180.1	27,500 *	41.7	187.5	29,400 *	46.1	192.7	31,100 *	50.0	196.0	32,500 *				135
140	22.2	150.9	23,900 *	29.5	166.2	25,500 *	33.2	173.0	26,500 *	38.5	181.6	28,200 *	43.2	187.7	30,000 *	47.3	191.6	31,400 *				140
145	15.9	136.4	23,200 *	25.1	156.5	24,600 *	29.2	164.7	25,500 *	35.1	174.9	27,200 *	40.1	182.0	28,800 *	44.5	186.7	30,300 *				145
150	4.3	108.4	18,200 *	19.7	144.3	23,800 *	24.7	154.9	24,700 *	31.4	167.3	26,200 *	36.8	175.7	27,700 *	41.5	181.4	29,200 *	45.5	184.8	30,300 *	150
155				12.3	126.9	23,200 *	19.3	142.5	23,900 *	27.2	158.4	25,300 *	33.2	168.6	26,700 *	38.3	175.4	28,200 *	42.6	179.7	29,300 *	155
160							11.6	124.4	23,300 *	22.3	147.5	24,400 *	29.3	160.4	25,800 *	34.8	168.6	27,100 *	39.5	173.9	28,200 *	160
170										4.7	105.8	23,000 *	19.3	138.2	24,100 *	26.8	151.9	25,300 *	32.5	160.1	26,000 *	170
180																15.5	126.0	23,900 *	23.8	141.5	24,100 *	180
190																			9.6	108.2	22,300 *	190



**999 SERIES 3**

**Liftcrane Luffing Jib Capacities**

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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

**90 Ft. Boom, 150 Ft. Jib**

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	74.7	242.6	46,300 *																			50
55	72.7	241.1	44,300 *																			55
60	70.7	239.5	42,500 *																			60
65	68.6	237.6	40,700 *																			65
70	66.6	235.6	38,900 *	69.8	237.9	41,800 *																70
75	64.5	233.3	37,300 *	67.7	236.0	40,100 *																75
80	62.3	230.8	35,700 *	65.7	233.8	38,400 *	67.6	235.0	39,800 *													80
85	60.2	228.1	34,100 *	63.6	231.4	36,800 *	65.5	232.8	38,200 *													85
90	57.9	225.1	32,600 *	61.4	228.8	35,300 *	63.4	230.4	36,700 *													90
95	55.7	221.8	31,200 *	59.2	226.0	33,700 *	61.2	227.8	35,200 *													95
100	53.3	218.2	29,900 *	57.0	222.9	32,300 *	59.0	224.9	33,700 *	62.4	227.3	35,600 *										100
105	50.9	214.3	28,600 *	54.6	219.5	30,900 *	56.8	221.8	32,300 *	60.2	224.6	34,200 *										105
110	48.4	210.1	27,300 *	52.3	215.8	29,600 *	54.5	218.4	30,900 *	58.0	221.6	32,900 *										110
115	45.8	205.4	26,200 *	49.8	211.7	28,300 *	52.1	214.7	29,600 *	55.7	218.3	31,500 *										115
120	43.1	200.3	25,000 *	47.3	207.3	27,100 *	49.6	210.6	28,300 *	53.4	214.8	30,200 *	56.8	217.4	31,800 *							120
125	40.2	194.7	24,000 *	44.6	202.5	25,900 *	47.1	206.1	27,100 *	50.9	210.9	29,000 *	54.5	214.0	30,600 *							125
130	37.1	188.5	23,000 *	41.8	197.1	24,800 *	44.4	201.3	25,900 *	48.4	206.6	27,800 *	52.1	210.3	29,400 *							130
135	33.8	181.4	22,000 *	38.9	191.2	23,800 *	41.6	195.9	24,800 *	45.8	202.0	26,600 *	49.7	206.2	28,200 *							135
140	30.2	173.4	21,200 *	35.7	184.7	22,800 *	38.6	190.0	23,800 *	43.1	196.9	25,500 *	47.1	201.8	27,100 *	50.7	204.8	28,400 *				140
145	26.2	164.1	20,300 *	32.3	177.3	21,900 *	35.5	183.4	22,800 *	40.2	191.3	24,400 *	44.4	196.9	26,000 *	48.2	200.6	27,400 *				145
150	21.5	152.8	19,600 *	28.5	168.7	21,000 *	32.0	175.9	21,900 *	37.2	185.0	23,400 *	41.6	191.5	24,900 *	45.6	195.9	26,300 *				150
155	15.4	137.8	18,900 *	24.2	158.7	20,200 *	28.2	167.3	21,000 *	33.9	178.0	22,500 *	38.7	185.6	23,900 *	42.9	190.7	25,300 *	46.6	193.9	26,300 *	155
160	4.1	108.7	16,400 *	19.0	146.0	19,400 *	23.9	157.0	20,200 *	30.3	170.1	21,600 *	35.5	179.0	23,000 *	40.0	185.1	24,300 *	43.9	188.9	25,400 *	160
170							11.2	125.4	18,900 *	21.5	149.5	19,900 *	28.3	162.9	21,200 *	33.6	171.7	22,400 *	38.1	177.4	23,600 *	170
180										4.5	106.2	18,900 *	18.7	139.9	19,700 *	25.9	154.2	20,800 *	31.4	163.0	21,800 *	180
190																14.9	127.4	19,400 *	23.0	143.6	20,300 *	190
200																			9.2	109.0	19,200 *	200



# Manitowoc Cranes, Inc.

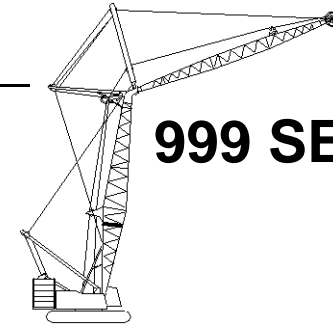
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

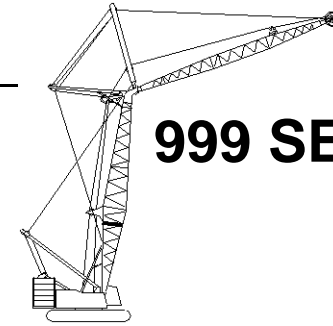
Designed And Tested  
 With The Intent To Be In  
 The Scope of ANSI B30.5



## 999 SERIES 3

### 90 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet	
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds		
50	75.7	253.0	42,600 *																			50	
55	73.8	251.6	40,800 *																			55	
60	71.9	250.1	39,000 *																			60	
65	70.0	248.3	37,300 *																			65	
70	68.1	246.4	35,700 *																			70	
75	66.2	244.3	34,100 *	69.2	246.7	36,700 *																75	
80	64.2	242.0	32,500 *	67.3	244.7	35,100 *																80	
85	62.2	239.5	31,000 *	65.3	242.5	33,600 *	67.1	243.7	34,900 *													85	
90	60.2	236.7	29,600 *	63.3	240.1	32,100 *	65.2	241.5	33,400 *													90	
95	58.1	233.7	28,200 *	61.3	237.5	30,600 *	63.2	239.1	31,900 *													95	
100	55.9	230.5	26,900 *	59.3	234.6	29,200 *	61.2	236.5	30,500 *													100	
105	53.7	227.0	25,600 *	57.1	231.5	27,900 *	59.1	233.6	29,200 *	62.2	236.0	31,000 *										105	
110	51.5	223.1	24,400 *	55.0	228.2	26,600 *	57.0	230.5	27,800 *	60.2	233.3	29,700 *										110	
115	49.2	219.0	23,300 *	52.8	224.5	25,300 *	54.8	227.1	26,500 *	58.1	230.3	28,400 *										115	
120	46.8	214.5	22,200 *	50.5	220.6	24,100 *	52.6	223.4	25,300 *	56.0	227.0	27,200 *										120	
125	44.2	209.6	21,200 *	48.1	216.3	23,000 *	50.3	219.5	24,100 *	53.8	223.5	25,900 *	57.0	226.1	27,500 *							125	
130	41.6	204.2	20,200 *	45.7	211.6	21,900 *	48.0	215.1	23,000 *	51.5	219.7	24,800 *	54.9	222.7	26,300 *							130	
135	38.8	198.3	19,200 *	43.1	206.5	20,900 *	45.5	210.4	21,900 *	49.2	215.6	23,600 *	52.6	219.0	25,200 *							135	
140	35.9	191.8	18,300 *	40.4	200.9	19,900 *	42.9	205.3	20,900 *	46.8	211.1	22,500 *	50.3	215.1	24,100 *							140	
145	32.7	184.4	17,500 *	37.6	194.7	19,000 *	40.2	199.6	19,900 *	44.3	206.1	21,500 *	48.0	210.7	23,000 *	51.4	213.6	24,300 *				145	
150	29.2	176.1	16,700 *	34.5	187.8	18,100 *	37.4	193.4	19,000 *	41.7	200.8	20,500 *	45.5	206.0	22,000 *	49.0	209.5	23,300 *				150	
155	25.3	166.4	16,000 *	31.2	180.1	17,300 *	34.3	186.5	18,100 *	38.9	194.9	19,600 *	43.0	200.9	21,000 *	46.6	204.9	22,300 *				155	
160	20.8	154.7	15,300 *	27.6	171.2	16,500 *	31.0	178.7	17,300 *	35.9	188.3	18,700 *	40.3	195.3	20,000 *	44.1	200.0	21,300 *	47.5	202.9	22,400 *	160	
170	4.0	109.1	14,200 *	18.4	147.7	15,100 *	23.1	159.1	15,800 *	29.3	172.7	17,000 *	34.3	182.1	18,300 *	38.7	188.7	19,500 *	42.5	192.9	20,600 *	170	
180							10.8	126.3	14,600 *	20.8	151.3	15,600 *	27.4	165.4	16,700 *	32.5	174.7	17,800 *	36.8	180.8	18,900 *	180	
190										4.4	106.6	14,300 *	18.1	141.5	15,300 *	25.1	156.5	16,300 *	30.4	165.8	17,300 *	190	
200																14.5	128.7	15,000 *	22.3	145.6	15,800 *	200	
210																		9.0	109.8	14,600 *			210



**999 SERIES 3**

**Liftcrane Luffing Jib Capacities**

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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

**90 Ft. Boom, 170 Ft. Jib**

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	74.8	262.0	37,800 *																			55
60	73.0	260.5	36,100 *																			60
65	71.3	258.9	34,500 *																			65
70	69.5	257.1	32,900 *																			70
75	67.7	255.2	31,400 *	70.5	257.4	33,800 *																75
80	65.8	253.0	29,900 *	68.7	255.5	32,300 *																80
85	64.0	250.7	28,500 *	66.9	253.5	30,900 *																85
90	62.1	248.1	27,200 *	65.0	251.2	29,500 *	66.7	252.5	30,700 *													90
95	60.2	245.4	25,800 *	63.1	248.8	28,100 *	64.9	250.2	29,300 *													95
100	58.2	242.4	24,600 *	61.2	246.2	26,800 *	63.0	247.8	28,000 *													100
105	56.2	239.2	23,400 *	59.3	243.3	25,500 *	61.1	245.1	26,700 *													105
110	54.1	235.7	22,200 *	57.3	240.2	24,200 *	59.2	242.3	25,400 *	62.1	244.7	27,100 *										110
115	52.0	231.9	21,100 *	55.3	236.9	23,000 *	57.2	239.2	24,200 *	60.2	241.9	25,900 *										115
120	49.9	227.9	20,000 *	53.2	233.3	21,900 *	55.1	235.8	23,000 *	58.2	238.9	24,700 *										120
125	47.6	223.5	19,000 *	51.1	229.4	20,800 *	53.1	232.2	21,900 *	56.2	235.7	23,600 *										125
130	45.3	218.7	18,100 *	48.9	225.2	19,800 *	50.9	228.3	20,800 *	54.2	232.2	22,400 *	57.2	234.8	23,900 *							130
135	42.9	213.6	17,200 *	46.6	220.6	18,800 *	48.7	224.1	19,700 *	52.1	228.5	21,300 *	55.2	231.4	22,800 *							135
140	40.3	207.9	16,300 *	44.2	215.7	17,800 *	46.4	219.5	18,800 *	49.9	224.4	20,300 *	53.1	227.8	21,700 *							140
145	37.6	201.8	15,500 *	41.8	210.4	16,900 *	44.1	214.5	17,800 *	47.6	220.0	19,300 *	50.9	223.9	20,700 *							145
150	34.8	194.9	14,700 *	39.2	204.5	16,100 *	41.6	209.1	16,900 *	45.3	215.3	18,300 *	48.7	219.7	19,700 *	51.9	222.4	20,900 *				150
155	31.7	187.3	13,900 *	36.4	198.1	15,200 *	39.0	203.2	16,000 *	42.9	210.1	17,400 *	46.5	215.1	18,800 *	49.7	218.4	20,000 *				155
160	28.4	178.7	13,200 *	33.5	190.9	14,500 *	36.2	196.8	15,200 *	40.4	204.5	16,600 *	44.1	210.2	17,900 *	47.5	214.0	19,100 *				160
170	20.1	156.5	11,700 *	26.8	173.7	13,000 *	30.0	181.4	13,700 *	34.8	191.5	14,900 *	39.0	198.9	16,100 *	42.7	204.0	17,300 *	46.0	207.2	18,300 *	170
180	3.9	109.4	10,200 *	17.9	149.3	11,400 *	22.4	161.1	12,100 *	28.4	175.3	13,500 *	33.3	185.2	14,600 *	37.5	192.1	15,700 *	41.1	196.7	16,700 *	180
190							10.5	127.3	10,500 *	20.2	153.2	11,700 *	26.5	167.8	13,000 *	31.5	177.5	14,100 *	35.7	184.1	15,100 *	190
200										4.2	107.0	10,300 *	17.5	143.1	11,300 *	24.3	158.7	12,500 *	29.4	168.4	13,700 *	200
210																14.0	129.9	10,900 *	21.6	147.5	12,000 *	210
220																			8.7	110.6	10,500 *	220

# Manitowoc Cranes, Inc.

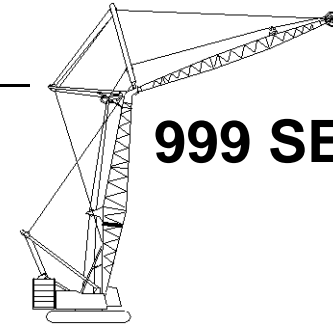
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	60.7	169.0	96,900 *b																			45
50	55.9	165.9	94,100 *b	64.1	170.0	103,400 *b																50
55	50.8	162.2	90,300 *	59.5	167.3	98,700 *b	64.2	169.2	103,900 *b													55
60	45.3	157.7	86,900 *	54.6	164.1	94,600 *b	59.6	166.5	99,400 *b													60
65	39.2	152.2	78,800 *	49.4	160.2	90,900 *	54.7	163.3	95,300 *b	62.8	166.4	100,000 b										65
70	32.2	145.2	71,600 *	43.7	155.4	85,500 *	49.5	159.4	91,600 *	58.1	163.5	91,300 b										70
75	23.4	135.7	63,300 *	37.4	149.6	77,000 *	43.9	154.7	85,800 *	53.2	160.1	83,900 b										75
80	8.3	118.1	47,600 *	30.1	142.1	70,000 *	37.7	148.9	77,300 *	47.9	156.0	77,500	56.5	159.6	74,600 b							80
85				20.5	131.5	63,700 *	30.3	141.5	70,200 *	42.1	151.0	72,000	51.4	156.0	69,200							85
90							20.8	131.1	64,300 *	35.6	144.8	67,200	45.9	151.6	64,600							90
95										27.8	136.7	62,800	39.9	146.2	60,500	49.2	150.8	58,100				95
100										17.0	124.5	59,000	33.0	139.4	56,800	43.6	146.0	54,600				100
105													24.5	130.3	53,500	37.3	140.1	51,400	46.7	144.4	49,400	105
110													11.1	114.8	50,400	29.9	132.6	48,500	40.7	139.2	46,600	110
115																20.2	121.9	45,900	34.0	132.7	44,100	115
120																			25.7	124.0	41,800	120
125																			13.6	109.9	39,700	125



# Liftcrane Luffing Jib Capacities

New York City Code

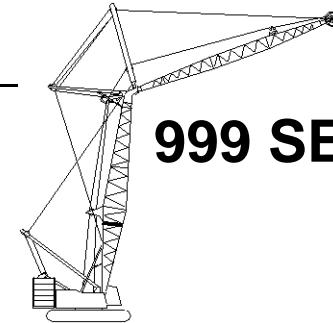
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	68.5	182.4	94,900 *b																			40
45	64.6	180.2	90,200 *b																			45
50	60.6	177.6	87,400 *b	67.5	181.0	96,300 *b																50
55	56.4	174.6	83,700 *	63.6	178.7	91,900 *b	67.7	180.2	96,500 *b													55
60	52.0	171.0	80,100 *	59.5	176.0	87,800 *b	63.7	177.9	92,400 *b													60
65	47.3	166.7	76,900 *	55.3	172.8	84,000 *	59.7	175.2	88,300 *b													65
70	42.2	161.7	71,700 *	50.8	169.0	80,500 *	55.4	172.0	84,500 *	62.5	175.0	90,800 *b										70
75	36.6	155.6	65,500 *	46.0	164.6	77,000 *	50.9	168.3	81,100 *	58.4	172.2	83,500										75
80	30.0	148.0	60,200 *	40.8	159.3	69,900 *	46.2	163.9	77,200 *	54.1	168.9	77,200										80
85	21.8	137.7	55,100 *	34.9	152.9	64,000 *	41.0	158.6	70,200 *	49.5	164.9	71,700	56.9	168.3	68,900							85
90	7.8	118.8	42,100 *	28.1	144.7	58,900 *	35.1	152.2	64,200 *	44.6	160.3	66,900	52.5	164.8	64,200							90
95				19.1	133.3	54,500 *	28.3	144.1	59,100 *	39.3	154.7	62,600	47.9	160.6	60,100							95
100							19.5	132.8	54,600 *	33.2	147.9	58,800	42.8	155.6	56,500	50.7	159.6	54,200				100
105										25.9	139.1	55,400	37.2	149.7	53,200	45.9	155.2	51,100				105
110										15.9	126.0	52,200	30.8	142.3	50,200	40.6	149.9	48,200				110
115													22.9	132.4	47,500	34.8	143.4	45,600	43.5	148.6	43,800	115
120													10.4	115.7	45,000	27.9	135.2	43,300	38.0	142.8	41,500	120
125																18.9	123.6	41,100	31.7	135.6	39,500	125
130																			24.1	126.2	37,500	130
135																			12.7	111.1	35,700	135

# Manitowoc Cranes, Inc.

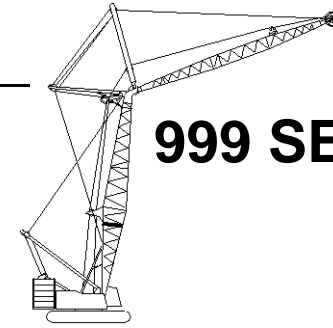
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	71.0	193.0	83,000 *b																			40
45	67.6	191.2	79,000 *b																			45
50	64.1	188.9	76,800 *b	70.1	191.7	84,100 *b																50
55	60.5	186.3	73,500 *	66.7	189.7	80,500 *b																55
60	56.8	183.3	70,400 *	63.2	187.4	77,100 *b	66.8	188.9	80,700 *b													60
65	52.9	179.7	67,600 *	59.6	184.7	73,800 *	63.3	186.6	77,400 *b													65
70	48.8	175.7	65,000 *	55.8	181.5	70,900 *	59.7	183.9	74,300 *													70
75	44.4	170.9	62,600 *	51.9	177.8	68,100 *	55.9	180.7	71,400 *	62.2	183.7	76,200 *										75
80	39.7	165.4	60,400 *	47.7	173.6	65,500 *	52.0	177.1	68,600 *	58.6	180.9	73,400 *										80
85	34.4	158.8	56,000 *	43.2	168.7	63,200 *	47.8	172.9	66,100 *	54.7	177.6	70,800 *										85
90	28.3	150.6	51,900 *	38.4	162.9	59,300 *	43.4	168.0	63,600 *	50.7	173.8	66,700 *	57.3	177.0	64,000							90
95	20.6	139.6	48,000 *	32.9	155.9	54,900 *	38.5	162.2	59,500 *	46.5	169.4	62,400	53.4	173.5	59,900							95
100	7.3	119.4	37,100 *	26.4	147.1	50,900 *	33.1	155.3	55,000 *	41.9	164.2	58,600	49.3	169.5	56,300							100
105				18.0	134.9	47,300 *	26.7	146.6	51,100 *	36.9	158.2	55,300	45.0	164.9	53,000	51.8	168.4	50,800				105
110							18.4	134.5	47,500 *	31.2	150.8	52,200	40.3	159.4	50,100	47.6	164.2	48,000				110
115										24.4	141.3	49,400	35.0	152.9	47,400	43.1	159.3	45,500				115
120										15.0	127.3	46,500 *	29.0	145.0	45,000	38.2	153.4	43,100	45.5	157.8	41,300	120
125													21.6	134.4	42,700	32.7	146.4	41,000	40.9	152.4	39,300	125
130													9.8	116.6	40,600	26.3	137.6	39,000	35.7	146.1	37,400	130
135																17.8	125.2	37,200	29.9	138.4	35,600	135
140																			22.7	128.2	34,000	140
145																			11.9	112.2	32,400	145



# Liftcrane Luffing Jib Capacities

New York City Code

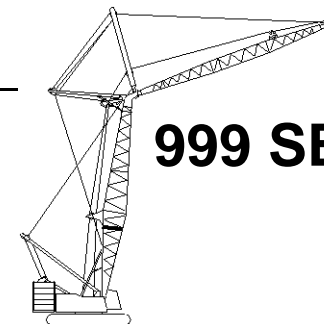
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	73.0	203.6	77,600 *b																			40
45	70.0	201.9	75,100 *b																			45
50	66.9	199.9	71,600 *																			50
55	63.7	197.6	68,400 *	69.2	200.5	74,900 *b																55
60	60.5	195.0	65,400 *	66.1	198.4	71,600 *																60
65	57.1	191.9	62,500 *	62.9	196.1	68,500 *	66.2	197.6	71,800 *													65
70	53.7	188.5	59,900 *	59.6	193.3	65,600 *	63.0	195.2	68,800 *													70
75	50.0	184.5	57,500 *	56.2	190.2	62,800 *	59.7	192.5	66,000 *													75
80	46.2	180.1	55,300 *	52.7	186.6	60,300 *	56.3	189.4	63,300 *	62.0	192.4	67,600 *										80
85	42.0	174.9	53,300 *	49.0	182.5	57,900 *	52.8	185.8	60,800 *	58.7	189.5	65,100 *										85
90	37.6	168.9	51,400 *	45.1	177.9	55,700 *	49.1	181.8	58,400 *	55.3	186.3	62,600 *										90
95	32.6	161.8	48,100 *	40.9	172.5	53,700 *	45.2	177.2	56,200 *	51.7	182.6	60,300 *	57.5	185.6	59,500							95
100	26.8	153.0	44,900 *	36.3	166.3	50,700 *	41.0	171.8	54,100 *	48.0	178.4	58,100 *	54.1	182.2	55,900							100
105	19.5	141.3	41,900 *	31.2	158.8	47,200 *	36.5	165.6	50,800 *	44.0	173.5	54,900	50.4	178.4	52,700							105
110	7.0	120.1	33,000 *	25.1	149.4	44,100 *	31.3	158.2	47,300 *	39.7	168.0	51,900	46.6	174.0	49,700	52.6	177.2	47,600				110
115				17.1	136.5	41,200 *	25.3	148.9	44,200 *	35.0	161.4	49,100	42.5	168.9	47,100	48.9	173.1	45,100				115
120							17.4	136.1	41,400 *	29.6	153.5	46,400 *	38.1	163.0	44,700	45.0	168.5	42,800				120
125										23.2	143.4	43,400 *	33.2	156.0	42,400	40.8	163.1	40,600	47.1	166.8	38,900	125
130										14.2	128.6	40,500 *	27.5	147.5	40,400	36.2	156.8	38,700	43.1	161.8	37,000	130
135													20.5	136.2	38,500	31.0	149.3	36,900	38.7	156.1	35,300	135
140													9.3	117.4	36,700	24.9	139.9	35,200	33.8	149.2	33,700	140
145																16.9	126.8	33,600	28.3	140.9	32,200	145
150																			21.5	130.2	30,800	150
155																			11.3	113.2	29,400	155

# Manitowoc Cranes, Inc.

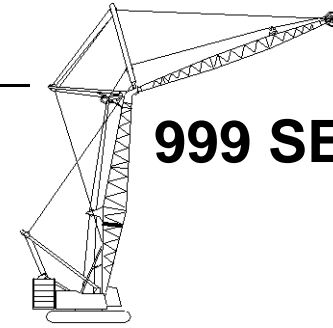
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	74.6	214.0	72,700 *b																			40
45	71.9	212.5	71,000 *b																			45
50	69.1	210.7	68,200 *																			50
55	66.3	208.6	65,500 *																			55
60	63.4	206.3	62,900 *	68.4	209.3	68,200 *																60
65	60.4	203.6	60,300 *	65.5	207.2	65,600 *																65
70	57.4	200.6	57,800 *	62.6	204.7	63,000 *	65.6	206.3	65,700 *													70
75	54.3	197.2	55,500 *	59.7	202.0	60,400 *	62.7	203.9	63,100 *													75
80	51.0	193.4	53,400 *	56.6	198.9	58,000 *	59.7	201.2	60,700 *													80
85	47.5	189.1	51,400 *	53.4	195.4	55,800 *	56.7	198.1	58,300 *	61.8	201.0	62,000 *										85
90	43.9	184.2	49,600 *	50.1	191.4	53,700 *	53.5	194.6	56,100 *	58.8	198.2	59,800 *										90
95	40.0	178.6	47,900 *	46.6	187.0	51,700 *	50.2	190.7	54,000 *	55.7	195.0	57,600 *										95
100	35.8	172.2	45,200 *	42.9	181.9	49,900 *	46.7	186.2	52,100 *	52.5	191.4	55,600 *	57.8	194.3	55,900							100
105	31.0	164.6	42,200 *	38.9	176.2	47,700 *	43.0	181.2	50,300 *	49.2	187.3	53,600 *	54.6	191.0	52,600							105
110	25.5	155.3	39,400 *	34.6	169.5	44,500 *	39.1	175.5	47,900 *	45.6	182.7	51,800 *	51.4	187.2	49,700							110
115	18.6	143.0	35,600 *	29.7	161.5	41,500 *	34.7	168.8	44,600 *	41.8	177.5	49,100	47.9	182.9	47,100							115
120	6.6	120.7	27,400 *	23.9	151.6	38,900 *	29.8	160.9	41,700 *	37.8	171.5	46,600	44.3	178.1	44,700	50.0	182.0	42,700				120
125				16.3	137.9	36,400 *	24.1	151.1	39,000 *	33.3	164.5	43,800 *	40.5	172.7	42,400	46.5	177.6	40,600				125
130							16.6	137.6	36,500 *	28.2	156.1	40,900 *	36.3	166.3	40,400	42.8	172.5	38,700				130
135										22.1	145.4	38,300 *	31.6	158.9	38,600	38.8	166.7	36,900	44.8	171.1	35,300	135
140										13.5	129.8	35,900 *	26.2	149.9	36,800	34.5	160.0	35,200	41.0	165.7	33,700	140
145													19.5	138.0	35,200	29.5	152.0	33,700	36.8	159.5	32,200	145
150													8.9	118.2	33,700	23.7	142.0	32,200	32.2	152.2	30,800	150
155																16.1	128.2	30,900	27.0	143.4	29,500	155
160																20.5	132.0	28,300	20.5	132.0	28,300	160



# Liftcrane Luffing Jib Capacities

New York City Code

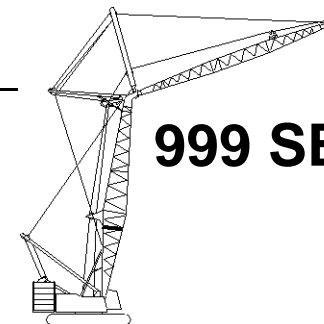
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
40	75.9	224.3	68,600 *b																			40
45	73.4	222.9	65,800 *b																			45
50	70.9	221.3	63,100 *																			50
55	68.4	219.5	60,500 *																			55
60	65.8	217.4	58,100 *	70.2	220.0	62,800 *																60
65	63.1	215.0	55,800 *	67.7	218.1	60,400 *																65
70	60.4	212.3	53,500 *	65.1	215.9	58,100 *	67.8	217.2	60,300 *													70
75	57.6	209.3	51,400 *	62.4	213.4	55,900 *	65.2	215.1	58,200 *													75
80	54.7	205.9	49,300 *	59.7	210.6	53,700 *	62.5	212.6	56,000 *													80
85	51.8	202.2	47,300 *	56.9	207.5	51,600 *	59.8	209.8	53,900 *													85
90	48.7	198.0	45,400 *	54.0	204.1	49,400 *	57.0	206.8	51,800 *	61.7	209.7	54,900 *										90
95	45.4	193.4	43,700 *	51.0	200.3	47,500 *	54.1	203.3	49,700 *	58.9	206.9	53,100 *										95
100	41.9	188.1	42,100 *	47.8	196.0	45,600 *	51.1	199.5	47,700 *	56.1	203.7	51,100 *										100
105	38.2	182.2	40,500 *	44.5	191.2	43,900 *	47.9	195.2	45,900 *	53.2	200.1	49,100 *	57.9	203.0	51,600 *							105
110	34.2	175.4	39,100 *	41.0	185.8	42,200 *	44.6	190.4	44,100 *	50.1	196.2	47,300 *	55.1	199.7	49,300 *							110
115	29.7	167.3	37,000 *	37.2	179.6	40,700 *	41.1	185.1	42,500 *	46.9	191.7	45,500 *	52.1	196.0	46,700 *							115
120	24.4	157.5	34,700 *	33.1	172.5	38,900 *	37.3	178.9	41,000 *	43.6	186.8	43,900 *	49.0	191.9	44,300 *							120
125	17.8	144.6	31,400 *	28.4	164.1	36,500 *	33.2	171.9	39,000 *	40.0	181.2	42,300 *	45.8	187.3	42,100 *	50.9	190.9	40,200				125
130	6.4	121.2	24,400 *	22.9	153.7	34,300 *	28.5	163.5	36,600 *	36.1	174.8	40,800 *	42.4	182.1	40,100 *	47.7	186.6	38,300				130
135				15.6	139.3	32,200 *	23.1	153.1	34,400 *	31.8	167.4	38,300 *	38.7	176.3	38,200 *	44.4	181.7	36,500				135
140							15.9	139.0	32,300 *	27.0	158.5	36,000 *	34.7	169.5	36,500 *	40.9	176.3	34,900	46.2	180.2	33,300	140
145										21.1	147.3	33,800 *	30.2	161.7	34,900 *	37.1	170.1	33,400	42.8	175.1	31,800	145
150										13.0	131.0	31,800 *	25.1	152.1	33,400 *	32.9	163.0	31,900	39.2	169.3	30,500	150
155													18.7	139.7	32,000 *	28.3	154.6	30,600	35.2	162.7	29,200	155
160													8.5	119.0	30,700 *	22.7	144.1	29,300	30.8	155.0	28,000	160
170																			19.6	133.8	25,800	170



# Manitowoc Cranes, Inc.

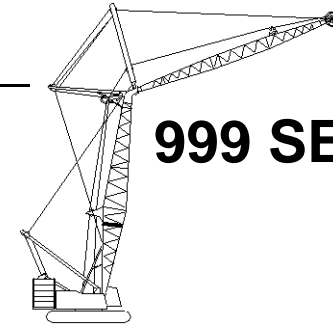
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	74.7	233.3	55,400 *b																			45
50	72.4	231.9	53,800 *																			50
55	70.1	230.2	51,700 *																			55
60	67.7	228.2	49,600 *																			60
65	65.3	226.1	47,600 *	69.5	228.8	51,400 *																65
70	62.9	223.6	45,700 *	67.1	226.8	49,400 *																70
75	60.4	220.9	43,900 *	64.7	224.6	47,500 *	67.2	226.0	49,300 *													75
80	57.8	217.9	42,100 *	62.2	222.1	45,600 *	64.8	223.8	47,500 *													80
85	55.2	214.6	40,500 *	59.7	219.3	43,900 *	62.3	221.3	45,700 *													85
90	52.4	211.0	38,900 *	57.1	216.2	42,200 *	59.8	218.5	44,000 *													90
95	49.6	206.9	37,400 *	54.5	212.8	40,500 *	57.2	215.4	42,300 *	61.5	218.4	44,800 *										95
100	46.6	202.4	36,000 *	51.7	209.1	39,000 *	54.5	212.0	40,700 *	59.0	215.5	43,300 *										100
105	43.5	197.5	34,700 *	48.8	204.9	37,500 *	51.8	208.3	39,200 *	56.4	212.4	41,700 *										105
110	40.2	191.9	33,400 *	45.8	200.3	36,100 *	48.9	204.2	37,700 *	53.7	208.9	40,200 *										110
115	36.7	185.6	32,300 *	42.7	195.2	34,700 *	45.9	199.6	36,300 *	50.9	205.0	38,800 *	55.5	208.4	40,800 *							115
120	32.8	178.4	31,200 *	39.3	189.4	33,500 *	42.8	194.4	35,000 *	48.0	200.7	37,400 *	52.8	204.8	39,400 *							120
125	28.5	169.9	30,200 *	35.7	182.9	32,300 *	39.4	188.7	33,700 *	45.0	196.0	36,000 *	49.9	200.8	38,100 *							125
130	23.5	159.7	29,300 *	31.7	175.4	31,300 *	35.8	182.2	32,500 *	41.8	190.7	34,700 *	47.0	196.3	36,800 *	51.6	199.7	38,000				130
135	17.1	146.1	28,100 *	27.2	166.6	30,300 *	31.9	174.8	31,400 *	38.4	184.7	33,500 *	43.9	191.4	35,500 *	48.8	195.5	36,300				135
140	6.1	121.8	21,900 *	21.9	155.6	29,400 *	27.4	166.0	30,500 *	34.6	178.0	32,400 *	40.6	185.9	34,300 *	45.8	190.9	34,600				140
145				15.0	140.7	28,700 *	22.1	155.1	29,600 *	30.6	170.2	31,300 *	37.1	179.7	33,200 *	42.6	185.7	33,100	47.4	189.2	31,600	145
150							15.3	140.4	28,800 *	25.9	160.9	30,300 *	33.3	172.6	32,100 *	39.2	180.0	31,700	44.3	184.3	30,200	150
155										20.3	149.1	29,500 *	29.0	164.3	31,000 *	35.6	173.4	30,400	41.0	178.9	28,900	155
160										12.4	132.1	28,600 *	24.1	154.3	30,100 *	31.6	165.9	29,100	37.6	172.8	27,800	160
170													8.2	119.7	28,000 *	21.8	146.0	26,900	29.6	157.7	25,600	170
180																			18.8	135.5	23,700	180



# Liftcrane Luffing Jib Capacities

New York City Code

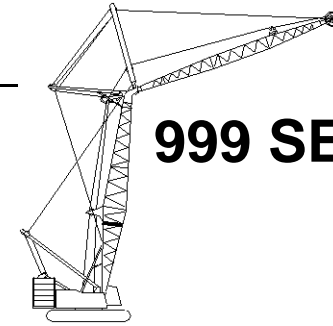
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 140 Ft. Jib

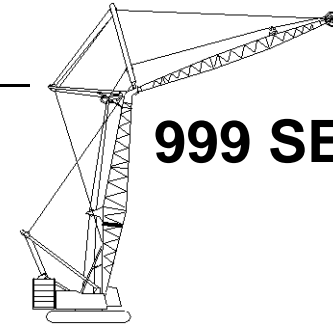
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	75.8	243.7	51,600 *b																			45
50	73.7	242.3	49,800 *																			50
55	71.6	240.7	47,700 *																			55
60	69.4	239.0	45,800 *																			60
65	67.2	237.0	43,900 *	71.0	239.4	47,400 *																65
70	65.0	234.8	42,100 *	68.8	237.6	45,500 *																70
75	62.7	232.3	40,300 *	66.6	235.5	43,700 *																75
80	60.3	229.6	38,700 *	64.4	233.3	42,000 *	66.7	234.7	43,600 *													80
85	58.0	226.6	37,100 *	62.1	230.7	40,300 *	64.4	232.5	42,000 *													85
90	55.5	223.3	35,500 *	59.7	228.0	38,600 *	62.1	229.9	40,300 *													90
95	53.0	219.7	34,100 *	57.3	224.9	37,100 *	59.8	227.2	38,700 *													95
100	50.4	215.8	32,700 *	54.9	221.5	35,500 *	57.4	224.1	37,200 *	61.4	227.0	39,500 *										100
105	47.7	211.4	31,400 *	52.3	217.8	34,100 *	54.9	220.8	35,700 *	59.1	224.2	38,000 *										105
110	44.8	206.7	30,100 *	49.7	213.8	32,700 *	52.4	217.1	34,200 *	56.7	221.0	36,600 *										110
115	41.9	201.4	28,900 *	46.9	209.3	31,400 *	49.8	213.0	32,900 *	54.2	217.6	35,200 *										115
120	38.7	195.5	27,800 *	44.1	204.4	30,100 *	47.0	208.6	31,600 *	51.6	213.8	33,800 *	55.8	217.1	35,700 *							120
125	35.3	188.8	26,700 *	41.0	199.0	29,000 *	44.2	203.7	30,300 *	48.9	209.7	32,500 *	53.3	213.5	34,500 *							125
130	31.6	181.3	25,700 *	37.8	192.9	27,800 *	41.1	198.3	29,100 *	46.2	205.1	31,300 *	50.7	209.6	33,200 *							130
135	27.4	172.4	24,800 *	34.4	186.1	26,700 *	37.9	192.2	28,000 *	43.3	200.0	30,100 *	48.0	205.3	32,000 *	52.3	208.5	33,400 *				135
140	22.6	161.7	24,000 *	30.5	178.2	25,800 *	34.5	185.4	26,900 *	40.2	194.4	28,900 *	45.2	200.6	30,800 *	49.6	204.4	32,300 *				140
145	16.5	147.6	23,300 *	26.2	168.9	24,900 *	30.7	177.6	25,900 *	36.9	188.2	27,800 *	42.2	195.3	29,600 *	46.9	199.9	31,200 *				145
150	5.9	122.3	19,500 *	21.1	157.5	24,100 *	26.4	168.4	25,000 *	33.4	181.0	26,700 *	39.1	189.5	28,500 *	44.0	195.0	30,100 *				150
155				14.4	142.0	23,400 *	21.3	157.1	24,200 *	29.4	172.9	25,800 *	35.7	183.0	27,500 *	41.0	189.6	29,100 *	45.5	193.5	28,600	155
160							14.7	141.7	23,500 *	24.9	163.1	24,900 *	32.0	175.5	26,500 *	37.7	183.5	28,100 *	42.6	188.3	27,400	160
170										12.0	133.2	23,500 *	23.2	156.4	24,700 *	30.4	168.7	26,100 *	36.1	176.1	25,300	170
180													7.9	120.4	23,500 *	21.0	147.9	24,500 *	28.5	160.3	23,300	180
190																			18.1	137.1	21,600	190



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	74.8	252.7	46,100 *																			50
55	72.8	251.3	44,200 *																			55
60	70.8	249.6	42,400 *																			60
65	68.8	247.8	40,700 *																			65
70	66.7	245.7	38,900 *	70.3	248.3	42,100 *																70
75	64.6	243.5	37,300 *	68.3	246.4	40,400 *																75
80	62.5	241.0	35,700 *	66.2	244.3	38,700 *																80
85	60.3	238.3	34,200 *	64.1	242.0	37,100 *	66.2	243.5	38,700 *													85
90	58.1	235.3	32,700 *	61.9	239.4	35,600 *	64.1	241.1	37,100 *													90
95	55.8	232.0	31,300 *	59.7	236.6	34,100 *	62.0	238.6	35,600 *													95
100	53.5	228.5	29,900 *	57.5	233.6	32,600 *	59.8	235.8	34,200 *													100
105	51.1	224.6	28,600 *	55.2	230.2	31,200 *	57.6	232.8	32,700 *	61.3	235.7	34,900 *										105
110	48.6	220.4	27,400 *	52.9	226.6	29,900 *	55.3	229.5	31,400 *	59.1	232.8	33,500 *										110
115	46.0	215.8	26,200 *	50.4	222.7	28,600 *	52.9	225.8	30,000 *	56.9	229.7	32,200 *										115
120	43.2	210.7	25,100 *	47.9	218.3	27,400 *	50.5	221.9	28,700 *	54.6	226.3	30,900 *										120
125	40.4	205.1	24,100 *	45.3	213.6	26,200 *	48.0	217.6	27,500 *	52.2	222.6	29,600 *	56.1	225.8	31,400 *							125
130	37.3	198.9	23,100 *	42.5	208.4	25,100 *	45.3	212.9	26,400 *	49.7	218.5	28,400 *	53.8	222.2	30,200 *							130
135	34.1	191.9	22,100 *	39.6	202.7	24,100 *	42.6	207.7	25,200 *	47.2	214.1	27,200 *	51.4	218.4	29,000 *							135
140	30.5	184.0	21,200 *	36.5	196.3	23,100 *	39.7	202.0	24,200 *	44.5	209.3	26,100 *	48.9	214.2	27,900 *	52.8	217.2	29,300 *				140
145	26.5	174.8	20,400 *	33.2	189.1	22,100 *	36.6	195.6	23,200 *	41.7	203.9	25,000 *	46.3	209.7	26,800 *	50.4	213.3	28,200 *				145
150	21.8	163.7	19,700 *	29.5	180.9	21,200 *	33.3	188.4	22,200 *	38.8	198.0	24,000 *	43.6	204.7	25,700 *	47.8	208.9	27,200 *				150
155	15.9	149.0	19,000 *	25.3	171.2	20,400 *	29.6	180.3	21,300 *	35.6	191.4	23,000 *	40.7	199.1	24,700 *	45.2	204.2	26,200 *				155
160	5.7	122.8	17,500 *	20.4	159.4	19,700 *	25.5	170.7	20,500 *	32.2	184.0	22,100 *	37.7	193.0	23,700 *	42.4	199.0	25,200 *	46.6	202.5	26,300 *	160
170							14.2	142.9	19,100 *	24.1	165.3	20,400 *	30.9	178.3	21,800 *	36.4	186.8	23,300 *	41.1	192.1	24,500 *	170
180										11.6	134.2	19,100 *	22.4	158.4	20,200 *	29.4	171.4	21,500 *	34.9	179.3	22,700 *	180
190													7.6	121.1	19,100 *	20.3	149.7	20,000 *	27.5	162.8	21,100 *	190
200																			17.5	138.7	19,700 *	200



# Liftcrane Luffing Jib Capacities

New York City Code

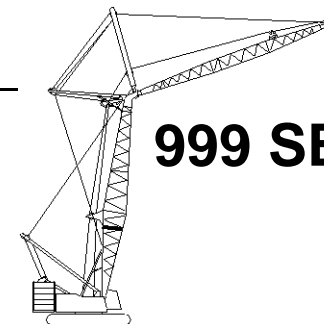
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	75.8	263.0	42,500 *																			50
55	73.9	261.7	40,700 *																			55
60	72.1	260.2	39,000 *																			60
65	70.2	258.4	37,300 *																			65
70	68.3	256.6	35,700 *																			70
75	66.3	254.5	34,100 *	69.7	257.1	37,000 *																75
80	64.3	252.2	32,600 *	67.8	255.1	35,400 *																80
85	62.3	249.7	31,100 *	65.8	253.0	33,900 *	67.8	254.3	35,300 *													85
90	60.3	246.9	29,700 *	63.8	250.6	32,400 *	65.9	252.2	33,800 *													90
95	58.2	243.9	28,300 *	61.8	248.1	30,900 *	63.9	249.8	32,400 *													95
100	56.1	240.7	27,000 *	59.8	245.3	29,500 *	61.9	247.3	31,000 *													100
105	53.9	237.2	25,700 *	57.7	242.2	28,200 *	59.8	244.5	29,600 *													105
110	51.7	233.4	24,500 *	55.5	238.9	26,900 *	57.7	241.4	28,300 *	61.3	244.4	30,300 *										110
115	49.3	229.3	23,400 *	53.3	235.4	25,600 *	55.6	238.2	27,000 *	59.2	241.5	29,000 *										115
120	46.9	224.8	22,300 *	51.1	231.5	24,400 *	53.4	234.6	25,800 *	57.1	238.4	27,800 *										120
125	44.4	219.9	21,200 *	48.7	227.3	23,300 *	51.1	230.7	24,600 *	54.9	235.0	26,600 *										125
130	41.8	214.6	20,200 *	46.3	222.7	22,200 *	48.8	226.5	23,400 *	52.7	231.4	25,400 *	56.3	234.4	27,100 *							130
135	39.0	208.7	19,300 *	43.7	217.7	21,200 *	46.4	222.0	22,300 *	50.4	227.4	24,200 *	54.2	231.0	25,900 *							135
140	36.1	202.2	18,400 *	41.1	212.2	20,200 *	43.8	217.0	21,300 *	48.1	223.1	23,100 *	51.9	227.2	24,800 *							140
145	33.0	195.0	17,600 *	38.3	206.2	19,200 *	41.2	211.5	20,300 *	45.6	218.4	22,100 *	49.6	223.1	23,800 *							145
150	29.5	186.7	16,800 *	35.3	199.5	18,400 *	38.4	205.5	19,400 *	43.0	213.3	21,100 *	47.2	218.7	22,700 *	51.0	222.1	24,100 *				150
155	25.6	177.1	16,000 *	32.1	192.0	17,500 *	35.4	198.8	18,500 *	40.3	207.7	20,100 *	44.7	213.9	21,700 *	48.7	217.9	23,100 *				155
160	21.1	165.6	15,300 *	28.5	183.5	16,700 *	32.2	191.4	17,600 *	37.5	201.5	19,200 *	42.1	208.6	20,700 *	46.2	213.3	22,000				160
170	5.5	123.3	14,300 *	19.8	161.1	15,300 *	24.7	172.9	16,100 *	31.1	186.8	17,500 *	36.5	196.4	18,900 *	41.0	202.8	20,100	45.0	206.8	18,300	170
180							13.7	144.2	14,800 *	23.3	167.4	15,900 *	29.9	181.1	17,200 *	35.2	190.0	18,300	39.7	195.8	16,700	180
190										11.2	135.2	14,800 *	21.7	160.4	15,800 *	28.4	173.9	16,800	33.7	182.4	15,200	190
200													7.4	121.8	14,500 *	19.6	151.5	15,300	26.6	165.2	13,900	200
210																			16.9	140.2	12,700	210

# Manitowoc Cranes, Inc.

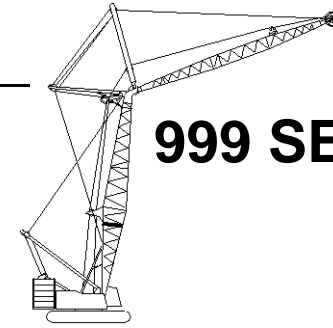
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 100 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	74.9	272.1	37,600 *																			55
60	73.2	270.6	36,100 *																			60
65	71.4	269.0	34,500 *																			65
70	69.6	267.3	32,900 *																			70
75	67.8	265.3	31,400 *	70.9	267.7	34,000 *																75
80	66.0	263.2	30,000 *	69.1	265.9	32,600 *																80
85	64.1	260.9	28,600 *	67.3	263.9	31,200 *																85
90	62.2	258.3	27,200 *	65.5	261.7	29,800 *	67.4	263.1	31,100 *													90
95	60.3	255.6	25,900 *	63.6	259.3	28,400 *	65.5	260.9	29,700 *													95
100	58.3	252.6	24,700 *	61.7	256.7	27,000 *	63.7	258.5	28,400 *													100
105	56.3	249.4	23,400 *	59.8	253.9	25,800 *	61.8	255.9	27,100 *													105
110	54.3	245.9	22,300 *	57.8	250.9	24,500 *	59.8	253.1	25,800 *													110
115	52.2	242.2	21,200 *	55.8	247.6	23,300 *	57.9	250.1	24,600 *	61.2	253.0	26,500 *										115
120	50.0	238.2	20,100 *	53.7	244.1	22,200 *	55.9	246.9	23,400 *	59.2	250.2	25,300 *										120
125	47.8	233.8	19,100 *	51.6	240.3	21,100 *	53.8	243.3	22,300 *	57.3	247.1	24,200 *										125
130	45.4	229.1	18,200 *	49.4	236.2	20,000 *	51.7	239.5	21,200 *	55.2	243.7	23,000 *										130
135	43.0	223.9	17,200 *	47.2	231.7	19,000 *	49.5	235.4	20,100 *	53.2	240.1	21,900 *	56.6	243.1	23,500 *							135
140	40.5	218.3	16,400 *	44.8	226.9	18,100 *	47.2	231.0	19,100 *	51.0	236.2	20,900 *	54.5	239.7	22,500 *							140
145	37.8	212.2	15,500 *	42.4	221.6	17,200 *	44.9	226.2	18,200 *	48.8	232.0	19,800 *	52.4	236.0	21,400 *							145
150	35.0	205.4	14,700 *	39.8	215.9	16,300 *	42.5	220.9	17,200 *	46.5	227.5	18,900 *	50.3	232.0	20,400 *							150
155	31.9	197.9	14,000 *	37.1	209.6	15,500 *	39.9	215.2	16,400 *	44.2	222.5	17,900 *	48.0	227.7	19,500 *	51.6	230.9	20,800 *				155
160	28.6	189.3	13,300 *	34.2	202.6	14,700 *	37.2	208.9	15,500 *	41.7	217.2	17,000 *	45.7	223.0	18,500 *	49.4	226.8	19,900 *				160
170	20.5	167.4	11,700 *	27.7	186.0	13,200 *	31.2	194.2	14,000 *	36.3	204.8	15,400 *	40.8	212.4	16,700 *	44.8	217.5	18,100 *				170
180	5.3	123.8	10,200 *	19.2	162.9	11,600 *	23.9	175.0	12,400 *	30.2	189.6	13,800 *	35.3	199.6	15,100 *	39.8	206.5	16,400 *	43.6	210.8	16,300	180
190							13.3	145.4	10,800 *	22.6	169.4	12,200 *	29.0	183.7	13,600 *	34.1	193.2	14,800 *	38.5	199.4	14,900	190
200										10.9	136.2	10,600 *	21.0	162.3	11,900 *	27.6	176.4	13,300 *	32.7	185.4	13,600	200
210													7.1	122.4	10,400 *	19.0	153.2	11,600 *	25.8	167.5	12,400	210
220																			16.4	141.7	11,300 *	220



# Liftcrane Luffing Jib Capacities

New York City Code

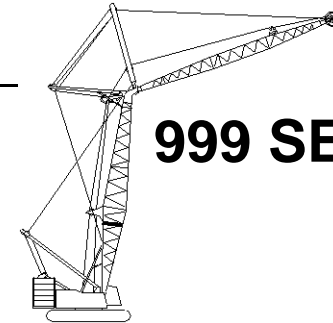
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 70 Ft. Jib

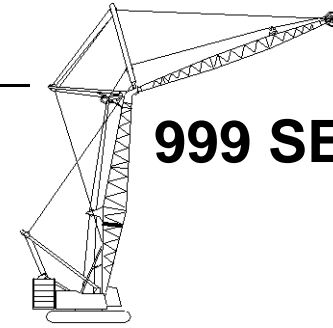
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	61.0	179.2	97,700 *b																			45
50	56.2	176.1	94,100 *b																			50
55	51.1	172.4	90,300 *b	60.6	178.0	99,600 *b																55
60	45.7	168.0	87,100 *	55.8	174.9	95,400 *b	61.2	177.4	100,700 *b													60
65	39.6	162.6	79,300 *	50.7	171.1	91,700 *b	56.5	174.3	96,600 *b													65
70	32.7	155.7	72,100 *	45.2	166.6	87,800 *	51.4	170.7	92,800 *b	60.6	174.7	90,100 b										70
75	24.1	146.5	65,000 *	39.1	161.1	79,000 *	45.9	166.3	86,500	55.8	171.6	82,800 b										75
80	10.1	130.2	49,700 *	32.0	154.1	71,600 *	39.9	160.9	80,000	50.7	167.9	76,500										80
85				23.2	144.5	65,500 *	33.0	154.2	72,600 *	45.2	163.4	71,100	54.9	167.9	67,900 b							85
90				7.7	126.4	51,100 *	24.5	145.1	66,300 *	39.1	157.8	66,300	49.7	164.1	63,400							90
95							11.1	129.5	56,300 *	32.0	150.8	62,100	44.1	159.4	59,300							95
100										23.2	141.3	58,300	37.9	153.6	55,700	48.4	159.2	53,200				100
105										7.8	123.2	54,800	30.6	146.3	52,500	42.7	154.3	50,100				105
110													21.2	136.0	49,500	36.2	148.2	47,300	46.7	153.1	45,100	110
115																28.6	140.3	44,800	40.7	147.9	42,700	115
120																18.3	128.8	42,400	34.0	141.3	40,500	120
125																			25.7	132.6	38,500	125
130																			13.6	118.6	36,600	130



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	64.9	190.4	87,600 *b																			45
50	60.9	187.8	84,100 *b																			50
55	56.7	184.8	80,400 *	64.6	189.2	89,100 *b																55
60	52.3	181.2	77,100 *	60.5	186.6	85,000 *b	65.1	188.6	89,900 *b													60
65	47.6	177.0	74,000 *	56.3	183.5	81,300 *	61.1	186.0	85,900 *b													65
70	42.6	172.0	71,300 *	51.9	179.9	78,000 *	56.9	183.0	82,300 *													70
75	37.0	166.0	66,500 *	47.2	175.7	75,000 *	52.5	179.5	78,900 *	60.5	183.4	82,400 b										75
80	30.5	158.6	61,000 *	42.1	170.6	72,300 *	47.9	175.3	75,900 *	56.3	180.3	76,200										80
85	22.5	148.5	55,700 *	36.4	164.5	65,900 *	42.8	170.4	73,200 *	51.9	176.7	70,800										85
90	9.5	131.1	43,300 *	29.9	156.8	60,600 *	37.2	164.4	66,800 *	47.2	172.4	66,000	55.5	176.6	63,000							90
95				21.6	146.5	56,000 *	30.8	157.0	61,300 *	42.1	167.4	61,800	51.1	172.9	59,000							95
100				7.2	127.1	44,700 *	22.9	147.2	56,500 *	36.4	161.3	58,000	46.3	168.5	55,400							100
105							10.4	130.5	49,200 *	29.9	153.6	54,700	41.1	163.3	52,200	50.0	168.1	49,700				105
110										21.6	143.3	51,600	35.3	156.9	49,300	45.1	163.5	47,000				110
115										7.3	123.9	48,700	28.6	148.9	46,600	39.8	158.0	44,500				115
120													19.8	137.8	44,200	33.8	151.3	42,200	43.5	157.3	40,100	120
125																26.7	142.8	40,000	38.0	151.4	38,100	125
130																17.1	130.3	38,100	31.7	144.3	36,300	130
135																			24.1	134.8	34,600	135
140																			12.7	119.8	32,900	140



# Liftcrane Luffing Jib Capacities

New York City Code

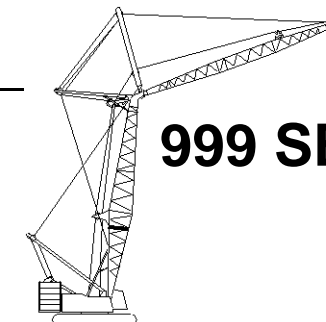
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	67.9	201.3	80,300 *b																			45
50	64.4	199.1	76,700 *b																			50
55	60.8	196.5	73,400 *	67.6	200.2	81,000 *b																55
60	57.1	193.5	70,400 *	64.1	197.9	77,600 *b	68.0	199.5	81,500 *b													60
65	53.2	190.0	67,600 *	60.5	195.3	74,500 *	64.5	197.3	78,300 *b													65
70	49.1	186.0	65,100 *	56.7	192.2	71,500 *	61.0	194.7	75,200 *													70
75	44.8	181.3	62,700 *	52.8	188.7	68,700 *	57.3	191.7	72,300 *													75
80	40.0	175.8	60,600 *	48.7	184.6	66,100 *	53.4	188.2	69,600 *	60.5	192.0	74,700 *										80
85	34.8	169.3	56,300 *	44.3	179.9	63,800 *	49.3	184.2	67,000 *	56.7	189.0	70,500 *										85
90	28.7	161.2	52,200 *	39.6	174.3	60,500 *	45.0	179.6	64,600 *	52.8	185.5	65,800 *										90
95	21.2	150.5	48,600 *	34.3	167.7	55,900 *	40.3	174.2	61,200 *	48.7	181.4	61,600 *	56.0	185.3	58,700 *							95
100	8.9	131.9	38,600 *	28.1	159.4	51,900 *	35.0	167.7	56,500 *	44.4	176.7	57,900 *	52.1	181.7	55,200 *							100
105				20.4	148.3	48,300 *	29.0	159.7	52,400 *	39.6	171.1	54,500 *	48.0	177.5	52,000 *							105
110				6.8	127.7	40,100 *	21.6	149.1	48,800 *	34.3	164.4	51,500 *	43.5	172.6	49,100 *	51.1	176.9	46,700 *				110
115							9.8	131.3	44,100 *	28.1	156.2	48,700 *	38.7	166.9	46,500 *	46.9	172.5	44,200 *				115
120										20.4	145.1	46,200 *	33.3	160.0	44,100 *	42.4	167.5	42,000 *				120
125										6.9	124.5	43,800 *	26.9	151.4	41,900 *	37.4	161.5	39,900 *	45.5	166.4	37,900 *	125
130													18.7	139.5	39,800 *	31.8	154.3	38,000 *	40.9	161.1	36,100 *	130
135																25.1	145.1	36,200 *	35.7	154.8	34,400 *	135
140																16.1	131.8	34,500 *	29.9	147.0	32,800 *	140
145																			22.7	136.9	31,400 *	145
150																			11.9	120.8	30,000 *	150

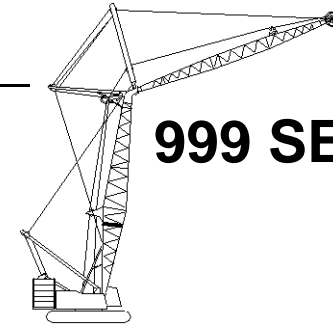




# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	70.2	212.0	75,000 *b																			45
50	67.1	210.0	71,600 *b																			50
55	64.0	207.8	68,400 *	69.9	210.9	75,400 *b																55
60	60.7	205.1	65,400 *	66.8	208.9	72,200 *b																60
65	57.4	202.1	62,600 *	63.7	206.6	69,100 *	67.2	208.2	72,600 *b													65
70	53.9	198.7	60,000 *	60.4	203.9	66,200 *	64.1	206.0	69,600 *													70
75	50.3	194.8	57,600 *	57.1	200.9	63,400 *	60.9	203.4	66,800 *													75
80	46.4	190.4	55,400 *	53.6	197.5	60,900 *	57.5	200.4	64,100 *													80
85	42.3	185.3	53,400 *	49.9	193.5	58,500 *	54.1	197.0	61,600 *	60.4	200.7	66,300 *										85
90	37.9	179.3	51,500 *	46.1	189.0	56,300 *	50.4	193.1	59,300 *	57.1	197.7	63,900 *										90
95	33.0	172.3	48,300 *	42.0	183.8	54,300 *	46.6	188.7	57,000 *	53.6	194.2	61,200										95
100	27.2	163.7	45,100 *	37.5	177.8	51,600 *	42.5	183.6	55,000 *	49.9	190.3	57,500	56.5	194.0	54,800							100
105	20.1	152.3	42,200 *	32.5	170.7	48,000 *	38.1	177.7	52,100 *	46.1	185.8	54,200	52.9	190.5	51,600							105
110	8.5	132.6	34,500 *	26.7	161.9	44,900 *	33.2	170.8	48,500 *	42.0	180.6	51,200	49.3	186.4	48,700							110
115				19.3	150.1	42,000 *	27.5	162.2	45,300 *	37.5	174.6	48,400	45.4	181.8	46,100	52.1	185.7	43,800				115
120				6.5	128.3	36,000 *	20.5	151.0	42,400 *	32.5	167.4	46,000	41.2	176.5	43,700	48.3	181.5	41,600				120
125							9.3	132.2	39,500 *	26.7	158.6	43,700	36.6	170.3	41,600	44.4	176.8	39,500				125
130										19.3	146.9	41,600	31.5	162.9	39,600	40.1	171.2	37,600	47.1	175.5	35,700	130
135										6.5	125.1	39,200 *	25.5	153.7	37,700	35.4	164.8	35,900	43.1	170.5	34,000	135
140													17.7	141.1	36,000	30.1	157.0	34,200	38.7	164.7	32,500	140
145																23.8	147.2	32,700	33.8	157.9	31,000	145
150																15.3	133.1	31,300	28.3	149.6	29,700	150
155																			21.5	138.8	28,400	155
160																			11.3	121.9	27,200	160



# Liftcrane Luffing Jib Capacities

New York City Code

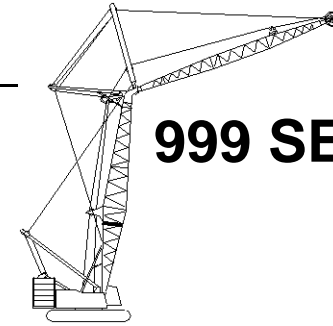
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	72.0	222.6	70,700 *b																			45
50	69.3	220.8	67,900 *b																			50
55	66.5	218.8	65,300 *																			55
60	63.6	216.5	62,800 *	69.0	219.7	68,400 *b																60
65	60.7	213.8	60,300 *	66.2	217.6	65,900 *																65
70	57.6	210.8	57,900 *	63.3	215.3	63,400 *	66.6	217.0	66,200 *													70
75	54.5	207.5	55,600 *	60.4	212.6	60,900 *	63.7	214.6	63,800 *													75
80	51.2	203.7	53,500 *	57.3	209.6	58,500 *	60.8	212.0	61,400 *													80
85	47.8	199.4	51,500 *	54.2	206.2	56,300 *	57.8	209.0	59,100 *													85
90	44.2	194.6	49,700 *	50.9	202.4	54,200 *	54.6	205.7	56,800 *	60.4	209.4	60,800 *										90
95	40.3	189.0	48,000 *	47.5	198.0	52,200 *	51.4	201.9	54,800 *	57.3	206.3	58,700 *										95
100	36.1	182.7	45,600 *	43.8	193.1	50,400 *	47.9	197.7	52,800 *	54.2	202.9	56,600 *										100
105	31.4	175.2	42,500 *	39.9	187.6	48,700 *	44.3	192.9	50,900 *	50.9	199.1	54,100	56.8	202.7	51,500							105
110	25.9	166.1	39,800 *	35.7	181.1	45,400 *	40.5	187.4	49,200 *	47.5	194.8	51,200	53.6	199.2	48,700							110
115	19.2	154.0	37,200 *	30.9	173.5	42,400 *	36.3	181.1	45,900 *	43.8	189.9	48,400	50.3	195.3	46,100							115
120	8.1	133.4	29,200 *	25.4	164.2	39,700 *	31.6	173.7	42,800 *	39.9	184.3	46,000	46.8	190.9	43,700	52.8	194.5	41,500				120
125				18.4	151.7	37,100 *	26.2	164.6	40,100 *	35.7	177.9	43,700	43.1	185.9	41,600	49.5	190.4	39,500				125
130				6.2	128.8	30,600 *	19.5	152.7	37,500 *	30.9	170.3	41,600	39.2	180.2	39,600	46.0	185.9	37,600				130
135							8.9	133.0	33,900 *	25.4	160.9	39,700	34.9	173.5	37,800	42.2	180.7	35,800				135
140										18.4	148.5	37,300 *	30.0	165.7	36,100	38.2	174.8	34,200	44.8	179.7	32,500	140
145										6.2	125.6	34,800 *	24.3	155.9	34,500	33.7	167.9	32,700	41.0	174.3	31,000	145
150													16.9	142.6	33,000	28.7	159.7	31,300	36.8	168.1	29,700	150
155																22.7	149.3	30,000	32.2	160.9	28,500	155
160																14.5	134.4	28,800	27.0	152.1	27,300	160
170																			10.8	122.8	25,100	170

# Manitowoc Cranes, Inc.

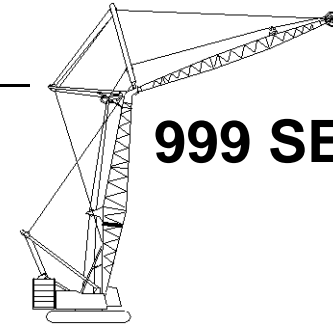
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	73.6	233.0	58,600 *b																			45
50	71.1	231.4	57,400 *																			50
55	68.5	229.6	55,700 *																			55
60	65.9	227.5	53,500 *	70.9	230.3	58,100 *																60
65	63.3	225.1	51,300 *	68.3	228.5	55,900 *																65
70	60.6	222.5	49,200 *	65.7	226.4	53,800 *																70
75	57.8	219.5	47,300 *	63.1	224.0	51,600 *	66.1	225.7	54,000 *													75
80	55.0	216.2	45,400 *	60.4	221.3	49,600 *	63.4	223.3	51,900 *													80
85	52.0	212.5	43,600 *	57.6	218.3	47,600 *	60.7	220.7	49,900 *													85
90	48.9	208.3	42,000 *	54.7	214.9	45,800 *	57.9	217.7	48,000 *													90
95	45.6	203.7	40,400 *	51.7	211.2	44,000 *	55.1	214.4	46,200 *	60.4	218.0	49,300 *										95
100	42.2	198.5	39,000 *	48.6	207.0	42,400 *	52.1	210.7	44,400 *	57.6	215.0	47,600 *										100
105	38.5	192.6	37,700 *	45.3	202.3	40,800 *	49.0	206.6	42,800 *	54.7	211.7	45,900 *										105
110	34.5	185.9	36,400 *	41.9	197.1	39,400 *	45.8	202.0	41,200 *	51.7	207.9	44,200 *	57.1	211.4	46,700 *							110
115	30.0	177.9	35,300 *	38.2	191.1	38,000 *	42.4	196.8	39,800 *	48.6	203.8	42,700 *	54.2	207.9	45,200 *							115
120	24.8	168.3	34,300 *	34.1	184.3	36,800 *	38.7	191.0	38,400 *	45.3	199.1	41,200 *	51.2	204.1	43,400							120
125	18.3	155.7	33,200 *	29.6	176.2	35,700 *	34.7	184.3	37,100 *	41.9	193.8	39,700 *	48.0	199.9	41,200							125
130	7.7	134.0	26,100 *	24.3	166.4	34,700 *	30.2	176.4	36,000 *	38.2	187.9	38,400 *	44.7	195.1	39,200	50.4	199.3	37,200				130
135				17.6	153.3	33,100 *	25.1	166.9	35,000 *	34.1	181.0	37,200 *	41.2	189.7	37,400	47.2	194.9	35,500				135
140				5.9	129.3	27,400 *	18.7	154.4	33,400 *	29.6	173.0	36,100 *	37.5	183.6	35,700	43.9	190.0	33,900				140
145							8.5	133.7	30,400 *	24.3	163.1	35,100 *	33.3	176.6	34,200	40.3	184.5	32,400	46.2	188.8	30,600	145
150										17.6	150.1	33,200 *	28.7	168.3	32,700	36.5	178.2	31,000	42.8	183.7	29,300	150
155										5.9	126.1	31,100 *	23.2	158.0	31,300	32.3	170.9	29,700	39.2	178.0	28,100	155
160													16.2	144.0	30,000	27.5	162.2	28,500	35.2	171.4	26,900	160
170																13.9	135.7	26,200	25.8	154.4	24,800	170
180																			10.3	123.7	22,900	180



# Liftcrane Luffing Jib Capacities

New York City Code

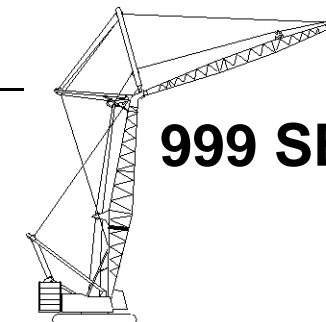
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 130 Ft. Jib

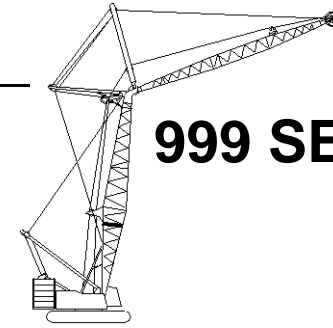
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	74.9	243.4	54,800 *b																			45
50	72.6	242.0	53,700 *																			50
55	70.3	240.3	51,600 *																			55
60	67.9	238.4	49,500 *																			60
65	65.5	236.2	47,600 *	70.0	239.2	51,600 *																65
70	63.1	233.8	45,700 *	67.7	237.2	49,700 *																70
75	60.6	231.1	43,900 *	65.3	235.1	47,800 *	68.0	236.5	49,800 *													75
80	58.0	228.2	42,200 *	62.8	232.6	46,000 *	65.6	234.4	48,000 *													80
85	55.4	224.9	40,600 *	60.3	229.9	44,200 *	63.2	232.0	46,200 *													85
90	52.6	221.2	39,000 *	57.8	226.9	42,600 *	60.7	229.3	44,500 *													90
95	49.8	217.2	37,500 *	55.1	223.6	40,900 *	58.1	226.4	42,900 *	62.8	229.4	45,500 *										95
100	46.8	212.8	36,100 *	52.4	219.9	39,400 *	55.5	223.1	41,300 *	60.3	226.7	44,000 *										100
105	43.7	207.8	34,800 *	49.5	215.9	37,900 *	52.8	219.5	39,700 *	57.8	223.7	42,500 *										105
110	40.5	202.3	33,500 *	46.6	211.4	36,500 *	49.9	215.5	38,200 *	55.1	220.4	41,000 *										110
115	36.9	196.0	32,400 *	43.5	206.4	35,100 *	47.0	211.1	36,800 *	52.4	216.7	39,500 *	57.3	220.0	41,600 *							115
120	33.1	188.9	31,300 *	40.2	200.8	33,900 *	43.9	206.1	35,500 *	49.5	212.7	38,100 *	54.6	216.7	40,300 *							120
125	28.8	180.6	30,300 *	36.6	194.5	32,700 *	40.6	200.6	34,200 *	46.6	208.2	36,800 *	51.9	212.9	39,000 *							125
130	23.8	170.5	29,400 *	32.7	187.3	31,600 *	37.1	194.4	33,000 *	43.5	203.2	35,400 *	49.0	208.8	37,700 *							130
135	17.6	157.2	28,600 *	28.4	178.8	30,600 *	33.3	187.3	31,900 *	40.2	197.6	34,200 *	46.0	204.2	36,400 *	51.2	208.1	35,200				135
140	7.4	134.7	23,300 *	23.3	168.5	29,700 *	29.0	179.1	30,900 *	36.6	191.3	33,000 *	42.9	199.1	35,200 *	48.3	203.9	33,600				140
145				16.9	154.8	28,900 *	24.1	169.1	29,900 *	32.7	184.0	31,900 *	39.5	193.4	33,900	45.3	199.2	32,100				145
150				5.7	129.8	24,600 *	17.9	156.0	29,200 *	28.4	175.6	30,900 *	35.9	187.0	32,500	42.1	193.9	30,800	47.4	197.8	29,100	150
155							8.2	134.5	27,300 *	23.3	165.3	30,000 *	32.0	179.5	31,100	38.7	188.1	29,500	44.3	193.0	27,800	155
160										16.9	151.6	29,200 *	27.5	170.8	29,900	35.0	181.4	28,300	41.0	187.6	26,700	160
170													15.5	145.4	27,500	26.4	164.6	26,100	33.8	174.5	24,600	170
180																13.4	136.9	24,100	24.8	156.6	22,800	180
190																			9.9	124.6	21,000	190



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	76.0	253.8	51,100 *b																			45
50	73.9	252.4	49,600 *																			50
55	71.7	250.9	47,600 *																			55
60	69.6	249.1	45,700 *																			60
65	67.4	247.1	43,900 *																			65
70	65.1	244.9	42,100 *	69.4	248.0	45,800 *																70
75	62.8	242.5	40,400 *	67.2	246.0	44,000 *																75
80	60.5	239.8	38,700 *	64.9	243.8	42,300 *	67.5	245.3	44,100 *													80
85	58.1	236.8	37,100 *	62.6	241.3	40,600 *	65.2	243.1	42,400 *													85
90	55.7	233.6	35,600 *	60.3	238.6	39,000 *	62.9	240.7	40,800 *													90
95	53.2	230.0	34,200 *	57.9	235.6	37,400 *	60.6	238.0	39,200 *													95
100	50.6	226.1	32,800 *	55.5	232.3	35,900 *	58.2	235.0	37,700 *	62.6	238.1	40,100 *										100
105	47.9	221.8	31,500 *	52.9	228.7	34,500 *	55.8	231.8	36,200 *	60.3	235.4	38,700 *										105
110	45.0	217.0	30,200 *	50.3	224.7	33,100 *	53.3	228.2	34,800 *	57.9	232.4	37,300 *										110
115	42.1	211.7	29,000 *	47.6	220.4	31,700 *	50.7	224.3	33,400 *	55.5	229.1	35,900 *										115
120	38.9	205.9	27,900 *	44.8	215.6	30,500 *	48.0	220.0	32,100 *	52.9	225.5	34,600 *	57.5	228.7	36,500 *							120
125	35.5	199.3	26,800 *	41.8	210.3	29,300 *	45.2	215.3	30,800 *	50.3	221.5	33,200 *	55.0	225.4	35,300 *							125
130	31.9	191.8	25,800 *	38.6	204.4	28,200 *	42.2	210.1	29,600 *	47.6	217.2	32,000 *	52.5	221.7	34,100 *							130
135	27.7	183.1	24,900 *	35.2	197.7	27,100 *	39.1	204.3	28,400 *	44.8	212.4	30,700 *	49.9	217.7	32,800 *							135
140	23.0	172.5	24,100 *	31.5	190.1	26,100 *	35.7	197.7	27,300 *	41.8	207.1	29,600 *	47.1	213.3	31,600 *	51.9	216.9	33,200 *				140
145	17.0	158.8	23,400 *	27.3	181.3	25,100 *	32.0	190.3	26,300 *	38.6	201.2	28,400 *	44.3	208.4	30,500 *	49.2	212.8	31,800				145
150	7.1	135.3	20,800 *	22.5	170.5	24,300 *	27.9	181.6	25,400 *	35.2	194.5	27,300 *	41.2	203.0	29,400 *	46.4	208.3	30,400				150
155				16.3	156.3	23,600 *	23.2	171.1	24,500 *	31.5	186.9	26,300 *	38.0	196.9	28,300 *	43.5	203.3	29,100				155
160				5.5	130.3	22,000 *	17.3	157.6	23,800 *	27.3	178.0	25,400 *	34.6	190.1	27,200 *	40.5	197.7	27,900	45.5	202.1	26,300	160
170										16.3	153.1	23,900 *	26.5	173.2	25,400 *	33.7	184.5	25,700	39.5	191.2	24,200	170
180													14.9	146.8	23,900 *	25.4	166.9	23,800	32.5	177.5	22,400	180
190																12.9	138.0	22,000	23.8	158.8	20,800	190
200																			9.6	125.5	19,200	200



# Liftcrane Luffing Jib Capacities

New York City Code

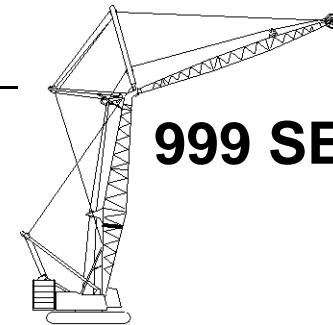
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	75.0	262.8	45,900 *																			50
55	73.0	261.4	44,100 *																			55
60	71.0	259.7	42,300 *																			60
65	68.9	257.9	40,600 *																			65
70	66.9	255.9	38,900 *	70.8	258.6	42,300 *																70
75	64.8	253.6	37,300 *	68.8	256.8	40,600 *																75
80	62.7	251.2	35,700 *	66.7	254.7	39,000 *																80
85	60.5	248.4	34,200 *	64.6	252.5	37,500 *	67.0	254.1	39,100 *													85
90	58.3	245.5	32,800 *	62.5	250.0	35,900 *	64.9	251.8	37,600 *													90
95	56.0	242.3	31,400 *	60.3	247.2	34,400 *	62.7	249.4	36,100 *													95
100	53.6	238.7	30,000 *	58.1	244.3	33,000 *	60.6	246.7	34,600 *													100
105	51.2	234.9	28,700 *	55.8	241.0	31,600 *	58.4	243.7	33,200 *	62.5	246.7	35,500 *										105
110	48.7	230.7	27,500 *	53.4	237.5	30,200 *	56.1	240.5	31,800 *	60.3	244.0	34,200 *										110
115	46.2	226.1	26,300 *	51.0	233.6	28,900 *	53.8	237.0	30,500 *	58.1	241.0	32,900 *										115
120	43.4	221.1	25,200 *	48.5	229.3	27,700 *	51.4	233.2	29,200 *	55.8	237.8	31,600 *										120
125	40.6	215.5	24,200 *	45.9	224.7	26,500 *	48.9	229.0	28,000 *	53.4	234.2	30,300 *	57.6	237.4	32,100 *							125
130	37.6	209.4	23,200 *	43.2	219.6	25,400 *	46.3	224.4	26,800 *	51.0	230.3	29,100 *	55.4	234.1	31,000 *							130
135	34.3	202.5	22,200 *	40.3	214.0	24,400 *	43.6	219.4	25,700 *	48.5	226.1	27,900 *	53.0	230.5	29,800 *							135
140	30.7	194.6	21,300 *	37.3	207.8	23,300 *	40.7	213.9	24,600 *	45.9	221.5	26,700 *	50.6	226.5	28,500 *							140
145	26.8	185.5	20,500 *	34.0	200.8	22,400 *	37.7	207.7	23,600 *	43.2	216.4	25,600 *	48.1	222.2	27,100 *	52.4	225.7	24,700 *				145
150	22.2	174.5	19,700 *	30.4	192.9	21,500 *	34.5	200.9	22,600 *	40.3	210.8	24,600 *	45.4	217.5	25,800 *	50.0	221.7	23,500 *				150
155	16.4	160.2	19,100 *	26.4	183.7	20,700 *	30.9	193.1	21,700 *	37.3	204.6	23,600 *	42.7	212.4	24,600 *	47.4	217.3	22,300 *				155
160	6.9	136.0	18,600 *	21.7	172.5	19,900 *	27.0	184.0	20,900 *	34.0	197.6	22,600 *	39.8	206.7	23,500 *	44.8	212.5	21,300 *				160
170				5.3	130.8	18,800 *	16.7	159.1	19,400 *	26.4	180.4	20,900 *	33.4	193.2	21,400 *	39.1	201.3	19,400 *	43.9	206.2	17,400 *	170
180										15.8	154.5	19,400 *	25.6	175.5	19,600 *	32.5	187.5	17,700 *	38.1	194.7	15,900 *	180
190													14.4	148.1	17,900 *	24.5	169.1	16,200 *	31.4	180.3	14,500 *	190
200																12.4	139.1	14,800 *	23.0	160.9	13,200 *	200
210																			9.2	126.3	12,000 *	210

# Manitowoc Cranes, Inc.

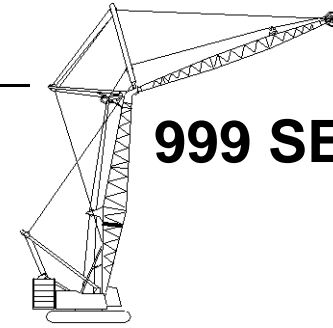
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	75.9	273.1	42,300 *																			50
55	74.1	271.8	40,600 *																			55
60	72.2	270.3	38,900 *																			60
65	70.3	268.6	37,300 *																			65
70	68.4	266.7	35,700 *																			70
75	66.5	264.6	34,100 *	70.1	267.5	37,200 *																75
80	64.5	262.3	32,600 *	68.2	265.6	35,700 *																80
85	62.5	259.8	31,100 *	66.3	263.5	34,200 *																85
90	60.4	257.1	29,700 *	64.3	261.2	32,700 *	66.5	262.8	34,200 *													90
95	58.4	254.2	28,400 *	62.3	258.6	31,300 *	64.6	260.5	32,800 *													95
100	56.2	250.9	27,100 *	60.3	255.9	29,900 *	62.6	258.0	31,400 *													100
105	54.1	247.5	25,800 *	58.2	252.9	28,500 *	60.5	255.3	30,100 *													105
110	51.8	243.7	24,600 *	56.0	249.7	27,200 *	58.5	252.4	28,700 *	62.3	255.4	30,900 *										110
115	49.5	239.6	23,500 *	53.9	246.2	26,000 *	56.3	249.2	27,500 *	60.3	252.7	29,600 *										115
120	47.1	235.1	22,400 *	51.6	242.4	24,800 *	54.2	245.7	26,200 *	58.2	249.7	28,400 *										120
125	44.6	230.3	21,300 *	49.3	238.3	23,600 *	51.9	242.0	25,000 *	56.0	246.5	27,200 *										125
130	42.0	225.0	20,300 *	46.9	233.8	22,500 *	49.6	237.9	23,900 *	53.9	243.0	26,000 *	57.8	246.1	27,800 *							130
135	39.2	219.1	19,400 *	44.4	228.9	21,500 *	47.2	233.4	22,700 *	51.6	239.2	24,900 *	55.7	242.8	26,700 *							135
140	36.3	212.7	18,500 *	41.8	223.5	20,500 *	44.7	228.6	21,700 *	49.3	235.0	23,700 *	53.5	239.2	25,600 *							140
145	33.2	205.5	17,700 *	39.0	217.6	19,500 *	42.1	223.3	20,700 *	46.9	230.5	22,700 *	51.2	235.4	24,500 *							145
150	29.7	197.3	16,900 *	36.0	211.1	18,600 *	39.4	217.5	19,700 *	44.4	225.6	21,600 *	48.9	231.2	23,500 *	52.9	234.5	23,000				150
155	25.9	187.8	16,100 *	32.9	203.8	17,800 *	36.5	211.1	18,800 *	41.8	220.3	20,600 *	46.4	226.6	22,400 *	50.6	230.5	21,800				155
160	21.5	176.4	15,400 *	29.4	195.6	17,000 *	33.3	203.9	18,000 *	39.0	214.4	19,700 *	43.9	221.6	21,400 *	48.3	226.2	20,800				160
170	6.7	136.5	14,400 *	21.0	174.3	15,500 *	26.1	186.4	16,400 *	32.9	200.6	17,900 *	38.5	210.2	19,600 *	43.3	216.5	18,900	47.5	220.2	16,900	170
180				5.1	131.3	14,400 *	16.2	160.5	15,000 *	25.5	182.7	16,400 *	32.3	196.1	17,800 *	37.8	204.8	17,200	42.5	210.2	15,400	180
190										15.3	155.9	15,100 *	24.8	177.7	16,300 *	31.5	190.3	15,700	36.8	198.1	14,000	190
200													14.0	149.3	15,000 *	23.7	171.2	14,400	30.4	183.1	12,700	200
210																12.1	140.2	13,100	22.3	162.9	11,600	210
220																			9.0	127.1	10,500	220



# Liftcrane Luffing Jib Capacities

New York City Code

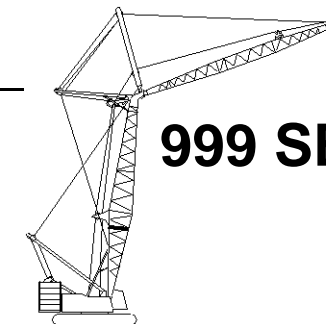
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 110 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet		
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds			
55	75.0	282.2	37,500 *																			55		
60	73.3	280.7	36,000 *																			60		
65	71.5	279.1	34,400 *																			65		
70	69.7	277.4	32,900 *																			70		
75	67.9	275.5	31,400 *																			75		
80	66.1	273.3	30,000 *	69.6	276.3	32,800 *																80		
85	64.2	271.0	28,600 *	67.8	274.3	31,400 *																85		
90	62.3	268.5	27,300 *	65.9	272.2	30,000 *	68.0	273.6	31,400 *													90		
95	60.4	265.8	26,000 *	64.1	269.8	28,700 *	66.2	271.5	30,100 *													95		
100	58.5	262.8	24,700 *	62.2	267.3	27,400 *	64.3	269.2	28,800 *													100		
105	56.5	259.6	23,500 *	60.2	264.6	26,100 *	62.4	266.7	27,500 *													105		
110	54.4	256.2	22,400 *	58.3	261.6	24,800 *	60.5	264.0	26,200 *													110		
115	52.3	252.5	21,300 *	56.3	258.4	23,600 *	58.6	261.0	25,000 *	62.2	264.1	27,000 *										115		
120	50.2	248.5	20,200 *	54.2	254.9	22,500 *	56.6	257.9	23,800 *	60.3	261.3	25,900 *										120		
125	47.9	244.1	19,200 *	52.1	251.2	21,400 *	54.5	254.4	22,700 *	58.3	258.4	24,700 *										125		
130	45.6	239.4	18,200 *	50.0	247.1	20,300 *	52.4	250.7	21,600 *	56.3	255.1	23,600 *										130		
135	43.2	234.3	17,300 *	47.7	242.8	19,300 *	50.3	246.7	20,500 *	54.2	251.7	22,500 *	57.9	254.7	24,200 *							135		
140	40.7	228.7	16,500 *	45.4	238.0	18,300 *	48.0	242.4	19,500 *	52.1	247.9	21,400 *	55.9	251.5	23,200 *							140		
145	38.0	222.6	15,600 *	43.0	232.9	17,400 *	45.7	237.7	18,500 *	50.0	243.9	20,400 *	53.9	248.0	22,100 *							145		
150	35.2	215.9	14,800 *	40.5	227.3	16,500 *	43.3	232.6	17,600 *	47.7	239.5	19,400 *	51.7	244.2	21,100 *							150		
155	32.2	208.4	14,100 *	37.8	221.1	15,700 *	40.8	227.1	16,700 *	45.4	234.8	18,500 *	49.6	240.1	20,200 *							155		
160	28.8	199.9	13,400 *	34.9	214.3	14,900 *	38.2	221.0	15,900 *	43.0	229.7	17,500 *	47.3	235.6	19,200 *	51.2	239.3	20,400				160		
170	20.8	178.3	11,800 *	28.5	198.2	13,400 *	32.3	206.9	14,300 *	37.8	217.9	15,800 *	42.5	225.6	17,400 *	46.8	230.6	18,600				170		
180	6.5	137.1	10,300 *	20.4	176.2	11,800 *	25.3	188.7	12,800 *	31.9	203.5	14,300 *	37.3	213.6	15,700 *	41.9	220.4	16,900	46.0	224.5	15,000	180		
190				5.0	131.7	10,300 *	15.7	161.9	11,100 *	24.8	185.0	12,700 *	31.3	199.0	14,200 *	36.6	208.2	15,400	41.1	214.0	13,600	190		
200										14.8	157.2	11,100 *				24.0	179.9	12,500 *	30.5	193.1	14,000 *	200		
210																13.6	150.5	11,000 *	23.0	173.3	12,400 *	210		
220																			11.7	141.3	10,800 *	220		
230																					8.7	127.9	9,200	230



# Manitowoc Cranes, Inc.

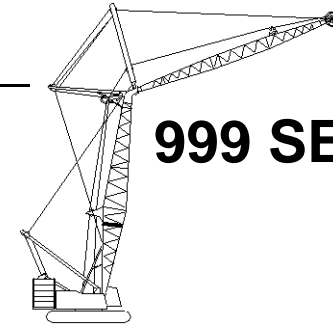
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	61.3	189.3	97,700 *b																			45
50	56.6	186.3	94,100 *b																			50
55	51.5	182.7	90,400 *b	61.7	188.6	100,400 *b																55
60	46.1	178.3	87,100 *	57.0	185.6	96,200 *b	62.8	188.1	101,900 *b													60
65	40.1	173.0	79,900 *	52.0	182.0	92,400 *b	58.1	185.3	97,800 *b													65
70	33.2	166.3	72,500 *	46.5	177.7	89,100 *	53.2	181.9	93,500 b	63.0	185.8	89,100 b										70
75	24.8	157.2	66,400 *	40.6	172.5	81,000 *	47.9	177.8	85,900	58.3	183.0	81,800 b										75
80	11.6	142.0	51,400 *	33.8	165.9	73,300 *	42.1	172.8	79,400	53.4	179.6	75,600 b										80
85				25.6	157.1	66,900 *	35.6	166.6	73,700	48.1	175.5	70,200										85
90				13.2	142.9	56,600 *	27.8	158.5	68,300 *	42.3	170.5	65,500	53.3	176.2	62,300 b							90
95							17.0	146.3	62,700 *	35.8	164.4	61,300	48.0	172.1	58,300							95
100										28.1	156.3	57,600	42.2	167.1	54,800	52.9	171.7	52,000				100
105										17.5	144.4	54,200	35.7	160.9	51,600	47.5	167.5	49,000				105
110													27.9	152.9	48,700	41.7	162.5	46,300				110
115													17.3	140.8	46,100	35.1	156.2	43,800	46.7	161.8	41,500	115
120																27.2	147.9	41,500	40.7	156.5	39,400	120
125																16.1	135.3	39,400	34.0	150.0	37,400	125
130																			25.7	141.3	35,600	130
135																			13.6	127.3	33,800	135



# Liftcrane Luffing Jib Capacities

New York City Code

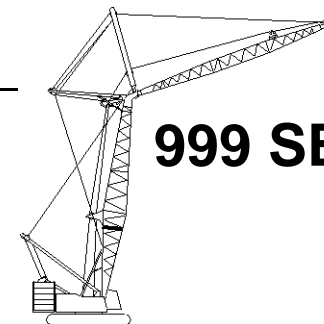
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet	
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds		
45	65.2	200.5	88,200 *b																			45	
50	61.2	198.0	84,300 *b																			50	
55	57.0	195.0	80,500 *b	65.5	199.7	89,900 *b																55	
60	52.6	191.5	77,200 *	61.5	197.2	85,800 *b	66.5	199.2	91,000 *b													60	
65	48.0	187.3	74,200 *	57.4	194.3	82,100 *b	62.5	196.8	87,100 *b													65	
70	42.9	182.4	71,500 *	53.0	190.8	78,800 *	58.4	194.0	83,400 *b													70	
75	37.4	176.5	66,900 *	48.4	186.7	75,700 *	54.1	190.6	80,000 *	62.6	194.4	81,400 b										75	
80	31.0	169.1	61,400 *	43.4	181.9	72,900 *	49.5	186.7	76,900 *	58.5	191.6	75,300 b										80	
85	23.1	159.4	56,600 *	37.9	176.0	67,400 *	44.6	182.0	73,500	54.2	188.3	69,900										85	
90	10.9	143.0	44,800 *	31.6	168.8	61,800 *	39.3	176.5	68,500	49.7	184.4	65,200										90	
95				23.9	159.3	57,000 *	33.2	169.7	63,100 *	44.8	179.8	61,000	54.2	184.9	57,900								95
100				12.4	144.0	49,300 *	25.9	160.8	58,100 *	39.5	174.2	57,300	49.6	181.0	54,400								100
105							15.9	147.7	53,800 *	33.4	167.5	54,000	44.7	176.4	51,300								105
110										26.2	158.7	51,000	39.4	170.8	48,400	49.2	176.5	45,900					110
115										16.3	145.9	48,200	33.3	164.0	45,800	44.3	171.8	43,400					115
120													26.1	155.3	43,400	38.9	166.1	41,200					120
125													16.1	142.3	41,200	32.8	159.2	39,100	43.5	165.9	37,000		125
130																25.4	150.2	37,200	38.0	160.1	35,200		130
135																15.1	136.7	35,400	31.7	152.9	33,600		135
140																			24.1	143.5	32,000		140
145																			12.7	128.4	30,600		145

# Manitowoc Cranes, Inc.

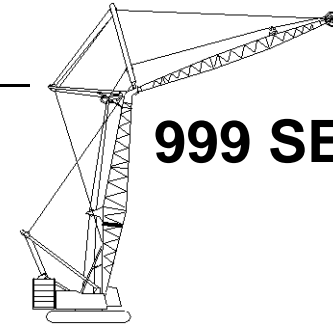
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	68.1	211.4	80,000 *b																			45
50	64.6	209.2	76,600 *b																			50
55	61.1	206.7	73,400 *	68.4	210.6	81,400 *b																55
60	57.3	203.7	70,300 *	64.9	208.4	78,100 *b																60
65	53.5	200.2	67,600 *	61.4	205.9	75,000 *	65.8	207.9	79,000 *b													65
70	49.4	196.3	65,100 *	57.7	202.9	72,000 *	62.2	205.5	76,000 *b													70
75	45.1	191.6	62,800 *	53.8	199.5	69,300 *	58.6	202.6	73,200 *													75
80	40.4	186.2	60,600 *	49.8	195.6	66,700 *	54.7	199.4	70,400 *	62.3	203.1	75,000										80
85	35.2	179.8	56,600 *	45.4	191.0	64,300 *	50.7	195.5	67,800 *	58.7	200.3	69,700										85
90	29.2	171.8	52,400 *	40.8	185.7	61,800 *	46.5	191.1	65,400 *	54.9	197.0	65,000										90
95	21.8	161.3	48,800 *	35.6	179.3	57,000 *	41.9	186.0	63,100 *	50.9	193.2	60,800										95
100	10.3	143.9	39,900 *	29.7	171.6	52,800 *	36.9	179.9	58,100 *	46.7	188.9	57,100	54.8	193.6	54,200							100
105				22.5	161.4	49,100 *	31.2	172.5	53,700 *	42.1	183.7	53,800	50.8	189.8	51,000							105
110				11.7	145.1	44,000 *	24.4	163.1	50,000 *	37.1	177.7	50,800	46.6	185.4	48,200							110
115							15.0	149.1	46,600 *	31.5	170.4	48,100	42.0	180.3	45,600	50.5	185.3	43,200				115
120										24.7	161.0	45,600	37.0	174.3	43,300	46.2	180.9	41,000				120
125										15.4	147.3	43,300	31.4	166.9	41,100	41.7	175.7	38,900				125
130													24.6	157.5	39,200	36.6	169.5	37,100	45.5	175.1	35,000	130
135													15.2	143.7	37,300	30.9	162.1	35,300	40.9	169.8	33,400	135
140																24.0	152.4	33,700	35.7	163.4	31,900	140
145																14.2	138.0	32,200	29.9	155.7	30,400	145
150																			22.7	145.5	29,100	150
155																			11.9	129.5	27,800	155



# Liftcrane Luffing Jib Capacities

New York City Code

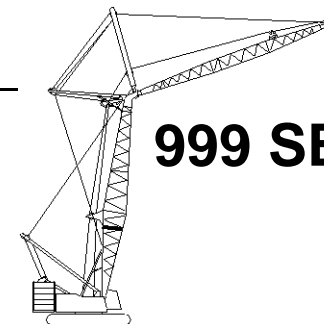
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	70.4	222.1	74,800 *b																			45
50	67.3	220.2	71,400 *b																			50
55	64.2	217.9	68,300 *	70.6	221.2	75,800 *b																55
60	60.9	215.3	65,400 *	67.6	219.3	72,600 *b																60
65	57.6	212.4	62,700 *	64.4	217.1	69,600 *																65
70	54.2	209.0	60,100 *	61.2	214.5	66,700 *	65.2	216.6	70,400 *													70
75	50.5	205.1	57,700 *	57.9	211.6	64,000 *	62.0	214.2	67,600 *													75
80	46.7	200.7	55,500 *	54.4	208.3	61,400 *	58.7	211.3	65,000 *													80
85	42.6	195.7	53,500 *	50.8	204.4	59,100 *	55.3	208.1	62,400 *	62.1	211.8	67,300 *										85
90	38.2	189.8	51,600 *	47.0	200.1	56,800 *	51.7	204.4	60,100 *	58.8	209.0	64,600 *										90
95	33.3	182.8	48,500 *	43.0	195.1	54,800 *	48.0	200.1	57,800 *	55.4	205.7	60,500 *										95
100	27.7	174.4	45,300 *	38.6	189.3	52,500 *	44.0	195.3	55,700 *	51.9	202.0	56,800 *										100
105	20.7	163.2	42,400 *	33.8	182.5	48,800 *	39.7	189.7	53,500 *	48.1	197.8	53,500 *	55.4	202.3	50,600 *							105
110	9.7	144.8	35,700 *	28.2	174.1	45,600 *	35.0	183.2	49,700 *	44.1	193.0	50,500 *	51.8	198.6	47,800 *							110
115				21.3	163.3	42,700 *	29.6	175.3	46,300 *	39.9	187.5	47,800 *	48.1	194.4	45,300 *							115
120				11.1	146.1	39,400 *	23.2	165.2	43,400 *	35.1	181.0	45,400 *	44.1	189.6	42,900 *	51.5	194.1	40,600 *				120
125							14.2	150.4	40,700 *	29.8	173.1	43,100 *	39.8	184.1	40,800 *	47.7	189.9	38,500 *				125
130										23.4	163.1	41,000 *	35.1	177.5	38,800 *	43.7	185.0	36,700 *				130
135										14.6	148.6	39,100 *	29.7	169.6	37,000 *	39.4	179.4	35,000 *	47.1	184.1	33,000 *	135
140													23.3	159.6	35,300 *	34.7	172.8	33,400 *	43.1	179.2	31,500 *	140
145													14.4	145.0	33,700 *	29.3	164.7	31,900 *	38.7	173.4	30,100 *	145
150																22.7	154.5	30,500 *	33.8	166.6	28,800 *	150
155																13.5	139.2	29,200 *	28.3	158.3	27,500 *	155
160																21.5	147.5	26,400 *	21.5	147.5	26,400 *	160

# Manitowoc Cranes, Inc.

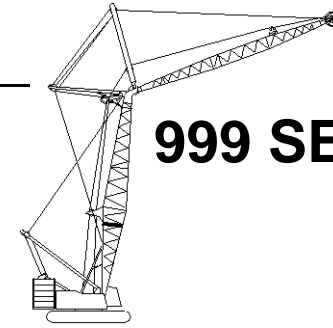
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	72.2	232.7	70,300 *b																			45
50	69.5	230.9	67,600 *b																			50
55	66.7	228.9	65,100 *																			55
60	63.8	226.6	62,600 *	69.7	230.1	68,500 *b																60
65	60.9	224.0	60,300 *	66.9	228.1	66,200 *																65
70	57.8	221.0	57,900 *	64.0	225.8	63,800 *	67.6	227.5	66,500 *													70
75	54.7	217.7	55,600 *	61.1	223.2	61,400 *	64.7	225.3	64,400 *													75
80	51.4	213.9	53,500 *	58.1	220.3	59,000 *	61.8	222.8	62,100 *													80
85	48.0	209.7	51,600 *	55.0	217.0	56,700 *	58.8	220.0	59,800 *													85
90	44.4	204.9	49,800 *	51.7	213.3	54,600 *	55.7	216.8	57,500 *	61.9	220.5	61,600 *										90
95	40.6	199.5	48,100 *	48.3	209.1	52,700 *	52.5	213.1	55,400 *	58.9	217.6	59,600 *										95
100	36.4	193.2	45,900 *	44.7	204.3	50,800 *	49.2	209.1	53,500 *	55.8	214.4	56,700 *										100
105	31.7	185.8	42,900 *	40.9	198.9	49,100 *	45.6	204.5	51,600 *	52.6	210.8	53,400 *										105
110	26.4	176.8	40,100 *	36.7	192.7	46,300 *	41.8	199.2	49,900 *	49.3	206.8	50,500 *	55.8	211.0	47,800 *							110
115	19.7	165.0	37,500 *	32.1	185.4	43,200 *	37.8	193.2	47,200 *	45.7	202.2	47,800 *	52.6	207.4	45,200 *							115
120	9.3	145.6	30,800 *	26.8	176.6	40,400 *	33.3	186.2	44,000 *	42.0	197.0	45,400 *	49.2	203.4	42,900 *							120
125				20.3	165.1	37,800 *	28.2	177.8	41,100 *	37.9	191.0	43,100 *	45.7	198.8	40,800 *	52.3	202.9	38,500 *				125
130				10.5	147.0	34,300 *	22.1	167.2	38,500 *	33.5	184.0	41,100 *	41.9	193.6	38,800 *	48.9	198.8	36,700 *				130
135							13.5	151.6	36,000 *	28.4	175.7	39,200 *	37.9	187.6	37,000 *	45.4	194.2	35,000 *				135
140										22.3	165.1	37,400 *	33.4	180.6	35,400 *	41.6	188.9	33,400 *				140
145										13.9	149.9	35,700 *	28.3	172.2	33,800 *	37.5	182.9	31,900 *	44.8	188.4	30,000 *	145
150													22.2	161.6	32,400 *	33.0	175.8	30,500 *	41.0	183.0	28,800 *	150
155													13.8	146.2	31,000 *	27.9	167.3	29,300 *	36.8	176.8	27,600 *	155
160																21.6	156.4	28,100 *	32.2	169.5	26,400 *	160
170																			20.5	149.3	24,300 *	170



# Liftcrane Luffing Jib Capacities

New York City Code

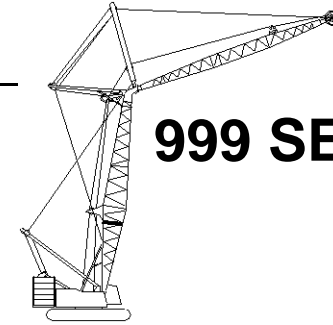
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	73.8	243.1	57,900 *b																			45
50	71.3	241.6	56,700 *b																			50
55	68.7	239.7	55,500 *																			55
60	66.1	237.7	53,400 *																			60
65	63.5	235.3	51,300 *	68.9	238.9	56,200 *																65
70	60.8	232.7	49,300 *	66.3	236.8	54,100 *																70
75	58.0	229.7	47,300 *	63.7	234.5	52,000 *	67.0	236.3	54,400 *													75
80	55.2	226.4	45,500 *	61.0	231.9	50,000 *	64.3	234.0	52,500 *													80
85	52.2	222.7	43,700 *	58.3	228.9	48,000 *	61.7	231.5	50,500 *													85
90	49.1	218.6	42,100 *	55.4	225.7	46,200 *	58.9	228.6	48,600 *													90
95	45.9	214.0	40,500 *	52.4	222.0	44,400 *	56.1	225.4	46,800 *	61.8	229.1	50,100 *										95
100	42.4	208.9	39,100 *	49.4	218.0	42,800 *	53.2	221.9	45,000 *	59.0	226.3	48,400 *										100
105	38.8	203.1	37,800 *	46.1	213.4	41,200 *	50.1	217.9	43,400 *	56.2	223.1	46,700 *										105
110	34.8	196.4	36,500 *	42.7	208.3	39,800 *	46.9	213.5	41,800 *	53.3	219.6	45,100 *										110
115	30.3	188.5	35,400 *	39.1	202.6	38,400 *	43.6	208.6	40,300 *	50.2	215.6	43,500 *	56.1	219.7	44,800							115
120	25.2	179.0	34,400 *	35.1	196.0	37,100 *	40.0	203.0	38,900 *	47.0	211.2	41,900 *	53.2	216.2	42,500							120
125	18.9	166.7	33,400 *	30.7	188.2	36,000 *	36.1	196.6	37,600 *	43.7	206.3	40,500 *	50.2	212.2	40,400							125
130	8.9	146.4	27,600 *	25.7	178.9	35,000 *	31.8	189.2	36,500 *	40.1	200.7	39,200 *	47.0	207.8	38,500	53.0	211.7	36,300				130
135				19.5	166.9	33,700 *	27.0	180.3	35,400 *	36.3	194.4	37,900 *	43.6	202.9	36,700	49.9	207.7	34,600				135
140				10.1	147.9	30,800 *	21.1	169.1	34,300 *	32.0	187.0	36,700 *	40.1	197.3	35,000	46.7	203.3	33,000				140
145							13.0	152.8	32,100 *	27.2	178.2	35,500	36.2	190.9	33,500	43.4	198.3	31,500				145
150										21.3	167.1	34,000	31.9	183.5	32,100	39.8	192.6	30,200	46.2	197.5	28,400	150
155										13.3	151.1	32,300 *	27.1	174.7	30,700	35.9	186.2	28,900	42.8	192.4	27,200	155
160													21.2	163.5	29,500	31.6	178.7	27,700	39.2	186.6	26,000	160
170																20.7	158.3	25,600	30.8	172.4	24,000	170
180																			19.6	151.1	22,200	180

# Manitowoc Cranes, Inc.

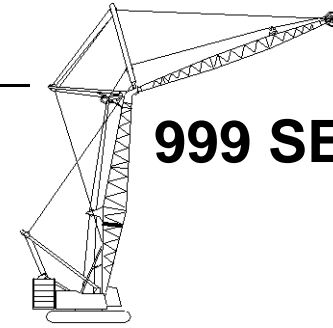
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.0	253.5	54,200 *b																			45
50	72.7	252.1	53,100 *																			50
55	70.4	250.4	51,400 *																			55
60	68.1	248.5	49,400 *																			60
65	65.7	246.4	47,500 *	70.6	249.5	51,800 *																65
70	63.2	244.0	45,700 *	68.3	247.7	50,000 *																70
75	60.7	241.3	43,900 *	65.9	245.5	48,100 *																75
80	58.2	238.4	42,200 *	63.4	243.2	46,300 *	66.4	245.0	48,400 *													80
85	55.5	235.1	40,600 *	60.9	240.5	44,600 *	64.0	242.7	46,700 *													85
90	52.8	231.5	39,100 *	58.4	237.6	42,900 *	61.5	240.1	45,000 *													90
95	50.0	227.5	37,600 *	55.8	234.4	41,300 *	59.0	237.3	43,400 *													95
100	47.1	223.1	36,200 *	53.1	230.8	39,700 *	56.4	234.1	41,800 *	61.6	237.8	44,600 *										100
105	44.0	218.2	34,900 *	50.2	226.8	38,200 *	53.7	230.6	40,200 *	59.1	234.9	43,200 *										105
110	40.7	212.7	33,600 *	47.3	222.5	36,800 *	50.9	226.8	38,800 *	56.5	231.8	41,700 *										110
115	37.2	206.5	32,500 *	44.2	217.6	35,500 *	48.0	222.5	37,300 *	53.8	228.3	40,300 *										115
120	33.4	199.4	31,400 *	41.0	212.2	34,200 *	45.0	217.8	36,000 *	51.0	224.5	38,800 *	56.5	228.4	41,100 *							120
125	29.1	191.2	30,400 *	37.5	206.0	33,000 *	41.8	212.5	34,700 *	48.1	220.2	37,500 *	53.8	224.9	39,800 *							125
130	24.2	181.2	29,500 *	33.7	199.0	31,900 *	38.4	206.5	33,500 *	45.1	215.5	36,200 *	51.0	221.1	38,200 *							130
135	18.1	168.3	28,700 *	29.5	190.9	30,900 *	34.6	199.8	32,300 *	41.9	210.2	34,900 *	48.1	216.8	36,400 *							135
140	8.5	147.2	24,600 *	24.7	181.1	29,900 *	30.6	191.9	31,300 *	38.5	204.3	33,700 *	45.1	212.1	34,800 *	50.8	216.6	32,700 *				140
145				18.7	168.6	29,100 *	25.9	182.6	30,300 *	34.8	197.6	32,600 *	41.8	206.8	33,300 *	47.8	212.2	31,300 *				145
150				9.7	148.8	27,600 *	20.3	170.9	29,500 *	30.7	189.8	31,500 *	38.4	200.9	31,800 *	44.8	207.5	29,900 *				150
155							12.4	153.9	28,700 *	26.1	180.5	30,500 *	34.7	194.1	30,500 *	41.6	202.1	28,700 *	47.4	206.5	26,900 *	155
160										20.5	168.9	29,700 *	30.6	186.3	29,300 *	38.1	196.2	27,500 *	44.3	201.6	25,800 *	160
170													20.4	165.4	27,000 *	30.3	181.5	25,400 *	37.6	190.1	23,800 *	170
180																19.9	160.1	23,400 *	29.6	175.0	22,000 *	180
190																			18.8	152.8	20,300 *	190



# Liftcrane Luffing Jib Capacities

New York City Code

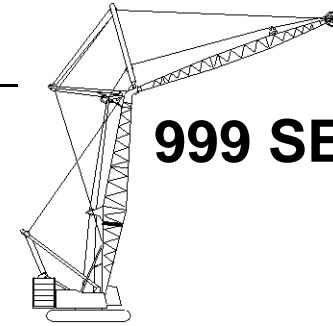
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	74.0	262.5	49,300 *																			50
55	71.9	261.0	47,500 *																			55
60	69.7	259.2	45,600 *																			60
65	67.5	257.3	43,800 *																			65
70	65.3	255.1	42,100 *	69.9	258.4	46,000 *																70
75	63.0	252.7	40,400 *	67.7	256.4	44,200 *																75
80	60.7	250.0	38,700 *	65.5	254.3	42,600 *																80
85	58.3	247.0	37,200 *	63.2	251.9	40,900 *	66.0	253.8	42,800 *													85
90	55.9	243.8	35,700 *	60.9	249.2	39,300 *	63.7	251.4	41,300 *													90
95	53.4	240.2	34,300 *	58.5	246.3	37,700 *	61.4	248.8	39,700 *													95
100	50.8	236.3	32,900 *	56.1	243.1	36,300 *	59.1	246.0	38,200 *													100
105	48.1	232.1	31,600 *	53.6	239.5	34,800 *	56.7	242.8	36,700 *	61.5	246.5	39,300 *										105
110	45.2	227.3	30,300 *	51.0	235.7	33,400 *	54.2	239.4	35,300 *	59.2	243.6	38,000 *										110
115	42.3	222.1	29,100 *	48.3	231.4	32,100 *	51.6	235.6	33,900 *	56.7	240.5	36,600 *										115
120	39.2	216.3	28,000 *	45.5	226.7	30,800 *	48.9	231.4	32,500 *	54.3	237.0	35,300 *										120
125	35.8	209.8	27,000 *	42.5	221.6	29,600 *	46.2	226.9	31,300 *	51.7	233.3	33,900 *	56.7	237.1	32,400							125
130	32.1	202.4	25,900 *	39.4	215.8	28,500 *	43.3	221.8	30,000 *	49.0	229.1	32,600 *	54.2	233.6	30,700							130
135	28.0	193.7	25,000 *	36.1	209.4	27,400 *	40.2	216.2	28,900 *	46.3	224.6	31,400 *	51.7	229.9	29,100							135
140	23.3	183.3	24,200 *	32.4	202.0	26,400 *	36.9	209.9	27,800 *	43.4	219.5	30,200 *	49.0	225.7	27,600							140
145	17.4	169.9	23,500 *	28.4	193.5	25,400 *	33.3	202.8	26,700 *	40.3	214.0	29,000	46.2	221.2	26,300	51.5	225.4	23,600				145
150	8.2	147.9	22,000 *	23.8	183.3	24,600 *	29.4	194.6	25,800 *	37.0	207.7	27,600	43.3	216.1	25,000	48.8	221.2	22,500				150
155				18.0	170.2	23,800 *	24.9	184.9	24,900 *	33.5	200.6	26,400	40.3	210.5	23,800	46.0	216.6	21,400				155
160				9.3	149.6	23,300 *	19.5	172.7	24,100 *	29.6	192.5	25,200	37.0	204.3	22,700	43.1	211.5	20,400				160
170										19.7	170.7	23,000	29.5	189.0	20,700	36.7	199.5	18,500	42.6	205.6	16,400	170
180													29.2	184.1	16,900	29.2	184.1	16,900	36.1	193.4	14,900	180
190																19.2	161.8	15,400	28.5	177.6	13,500	190
200																			18.1	154.4	12,300	200



# Manitowoc Cranes, Inc.

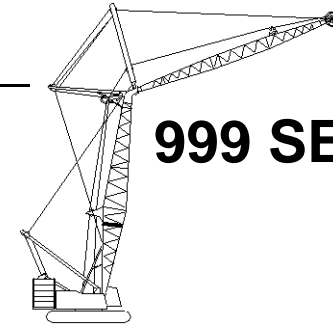
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	75.1	272.9	45,700 *																			50
55	73.1	271.5	44,000 *																			55
60	71.1	269.8	42,200 *																			60
65	69.1	268.0	40,600 *																			65
70	67.0	266.0	38,900 *																			70
75	64.9	263.8	37,300 *	69.3	267.2	40,900 *																75
80	62.8	261.3	35,800 *	67.2	265.2	39,300 *																80
85	60.6	258.6	34,300 *	65.1	263.0	37,700 *	67.7	264.6	39,400 *													85
90	58.4	255.7	32,800 *	63.0	260.5	36,200 *	65.6	262.5	38,000 *													90
95	56.1	252.5	31,400 *	60.8	257.9	34,700 *	63.5	260.1	36,500 *													95
100	53.8	249.0	30,100 *	58.6	254.9	33,300 *	61.3	257.5	35,100 *													100
105	51.4	245.2	28,800 *	56.3	251.7	31,900 *	59.1	254.6	33,700 *													105
110	48.9	241.0	27,600 *	54.0	248.3	30,600 *	56.9	251.5	32,300 *	61.4	255.1	34,800 *										110
115	46.3	236.4	26,400 *	51.6	244.5	29,300 *	54.6	248.1	31,000 *	59.2	252.3	33,500 *										115
120	43.6	231.4	25,300 *	49.1	240.3	28,000 *	52.2	244.4	29,700 *	57.0	249.2	32,200 *										120
125	40.8	225.9	24,300 *	46.6	235.8	26,900 *	49.7	240.3	28,400 *	54.7	245.8	31,000 *										125
130	37.8	219.8	23,300 *	43.9	230.8	25,700 *	47.2	235.9	27,300 *	52.3	242.1	29,700 *	56.9	245.8	30,500							130
135	34.5	213.0	22,300 *	41.0	225.4	24,700 *	44.5	231.0	26,100 *	49.8	238.0	28,500 *	54.6	242.4	29,000							135
140	31.0	205.2	21,400 *	38.0	219.3	23,600 *	41.7	225.7	25,000 *	47.3	233.6	27,400 *	52.2	238.7	27,500							140
145	27.1	196.2	20,600 *	34.8	212.6	22,700 *	38.8	219.8	24,000 *	44.6	228.8	26,200 *	49.8	234.6	26,200							145
150	22.5	185.4	19,800 *	31.3	204.9	21,800 *	35.6	213.2	23,000 *	41.8	223.4	25,200 *	47.2	230.2	24,900	52.0	234.2	22,300				150
155	16.8	171.4	19,200 *	27.4	196.0	20,900 *	32.2	205.8	22,100 *	38.9	217.6	24,200 *	44.6	225.3	23,700	49.6	230.1	21,300				155
160	7.9	148.6	18,700 *	22.9	185.4	20,100 *	28.4	197.2	21,200 *	35.7	211.0	23,200 *	41.8	220.0	22,600	47.0	225.6	20,300				160
170				9.0	150.4	18,900 *	18.9	174.3	19,700 *	28.5	195.1	21,400 *	35.7	207.6	20,600	41.6	215.4	18,400	46.6	219.9	16,300	170
180										19.1	172.4	19,800 *	28.5	191.6	18,900	35.4	202.8	16,800	41.1	209.5	14,800	180
190													19.0	168.9	17,300	28.2	186.7	15,300	34.9	196.6	13,400	190
200																18.5	163.5	14,000	27.5	180.1	12,200	200
210																			17.5	156.0	11,100	210



# Liftcrane Luffing Jib Capacities

New York City Code

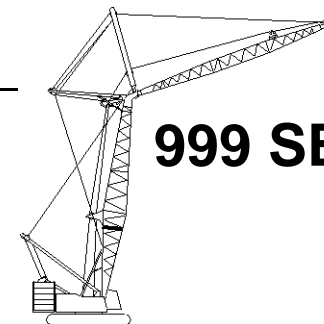
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	74.2	281.9	40,400 *																			55
60	72.3	280.4	38,800 *																			60
65	70.4	278.7	37,200 *																			65
70	68.5	276.8	35,600 *																			70
75	66.6	274.7	34,100 *	70.6	277.8	37,400 *																75
80	64.6	272.5	32,600 *	68.7	276.0	35,900 *																80
85	62.6	270.0	31,200 *	66.8	273.9	34,400 *																85
90	60.6	267.3	29,800 *	64.8	271.7	33,000 *	67.2	273.4	34,600 *													90
95	58.5	264.4	28,400 *	62.8	269.2	31,600 *	65.3	271.2	33,200 *													95
100	56.4	261.2	27,100 *	60.8	266.5	30,200 *	63.3	268.8	31,800 *													100
105	54.2	257.7	25,900 *	58.7	263.6	28,800 *	61.3	266.1	30,500 *													105
110	52.0	254.0	24,700 *	56.6	260.4	27,500 *	59.2	263.3	29,200 *													110
115	49.7	249.9	23,600 *	54.4	257.0	26,300 *	57.1	260.2	27,900 *	61.3	263.8	30,200 *										115
120	47.3	245.5	22,500 *	52.2	253.3	25,100 *	54.9	256.8	26,700 *	59.3	260.9	29,000 *										120
125	44.8	240.6	21,400 *	49.9	249.2	23,900 *	52.7	253.1	25,400 *	57.2	257.8	27,800 *										125
130	42.2	235.4	20,400 *	47.5	244.8	22,800 *	50.4	249.2	24,300 *	55.0	254.5	26,600 *										130
135	39.4	229.6	19,500 *	45.0	240.0	21,800 *	48.1	244.9	23,200 *	52.8	250.8	25,500 *	57.1	254.4	27,400 *							135
140	36.5	223.2	18,600 *	42.4	234.8	20,700 *	45.6	240.2	22,100 *	50.5	246.9	24,300 *	55.0	251.1	26,300 *							140
145	33.4	216.0	17,700 *	39.7	229.1	19,800 *	43.0	235.1	21,100 *	48.1	242.6	23,300 *	52.8	247.4	25,300 *							145
150	30.0	207.9	16,900 *	36.8	222.7	18,900 *	40.3	229.4	20,100 *	45.7	237.9	22,200 *	50.5	243.5	24,200 *							150
155	26.2	198.6	16,200 *	33.7	215.6	18,000 *	37.5	223.2	19,200 *	43.1	232.8	21,200 *	48.1	239.2	23,200 *	52.6	242.9	20,700				155
160	21.8	187.3	15,500 *	30.3	207.6	17,200 *	34.4	216.4	18,300 *	40.4	227.2	20,200 *	45.7	234.5	22,200 *	50.3	238.9	19,700				160
170	7.7	149.3	14,400 *	22.2	187.3	15,700 *	27.5	199.7	16,700 *	34.6	214.2	18,400 *	40.4	223.8	20,200 *	45.4	229.9	17,900				170
180				8.7	151.2	14,600 *	18.3	176.0	15,300 *	27.6	197.6	16,800 *	34.5	210.7	18,400	40.2	219.1	16,300	45.0	224.1	14,300	180
190										18.5	174.1	15,400 *	27.6	194.1	16,900 *	34.3	205.9	14,900	39.7	213.1	12,900	190
200													18.4	170.5	15,400	27.2	189.1	13,600	33.7	199.7	11,700	200
210																17.9	165.1	12,400	26.6	182.5	10,700	210
220																			16.9	157.5	9,600	220

# Manitowoc Cranes, Inc.

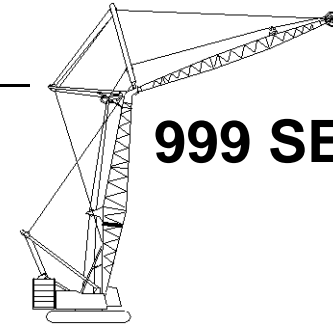
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 120 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	75.2	292.2	37,400 *																			55
60	73.4	290.8	35,800 *																			60
65	71.6	289.3	34,400 *																			65
70	69.8	287.5	32,900 *																			70
75	68.0	285.6	31,400 *																			75
80	66.2	283.5	30,000 *	70.0	286.6	33,000 *																80
85	64.4	281.2	28,700 *	68.2	284.7	31,700 *																85
90	62.5	278.7	27,300 *	66.4	282.6	30,300 *																90
95	60.6	276.0	26,000 *	64.5	280.4	29,000 *	66.8	282.1	30,400 *													95
100	58.6	273.0	24,800 *	62.6	277.9	27,600 *	65.0	279.9	29,200 *													100
105	56.6	269.9	23,600 *	60.7	275.2	26,400 *	63.1	277.4	27,900 *													105
110	54.6	266.4	22,500 *	58.8	272.3	25,100 *	61.2	274.8	26,700 *													110
115	52.5	262.7	21,400 *	56.8	269.1	23,900 *	59.2	271.9	25,400 *													115
120	50.3	258.7	20,300 *	54.7	265.7	22,800 *	57.3	268.8	24,300 *	61.2	272.4	26,400 *										120
125	48.1	254.4	19,300 *	52.6	262.0	21,700 *	55.2	265.5	23,100 *	59.3	269.6	25,300 *										125
130	45.8	249.7	18,300 *	50.5	258.1	20,600 *	53.2	261.9	22,000 *	57.3	266.5	24,200 *										130
135	43.4	244.7	17,400 *	48.3	253.8	19,600 *	51.0	258.0	20,900 *	55.3	263.2	23,100 *										135
140	40.9	239.1	16,500 *	46.0	249.1	18,600 *	48.8	253.8	19,900 *	53.2	259.6	22,000 *	57.3	263.1	23,800 *							140
145	38.2	233.1	15,700 *	43.6	244.1	17,700 *	46.5	249.2	18,900 *	51.1	255.7	21,000 *	55.3	259.8	22,800 *							145
150	35.4	226.4	14,900 *	41.1	238.6	16,800 *	44.2	244.3	18,000 *	48.9	251.5	20,000 *	53.2	256.2	21,800 *							150
155	32.4	219.0	14,200 *	38.4	232.6	15,900 *	41.7	238.9	17,100 *	46.6	247.0	19,000 *	51.1	252.3	20,800 *							155
160	29.1	210.6	13,500 *	35.6	226.0	15,100 *	39.1	233.0	16,200 *	44.3	242.0	18,100 *	48.9	248.1	19,900 *	53.0	251.7	19,400				160
170	21.1	189.2	11,900 *	29.4	210.3	13,600 *	33.4	219.4	14,600 *	39.2	230.8	16,300 *	44.2	238.6	18,000 *	48.7	243.5	17,600				170
180	7.5	150.0	10,400 *	21.5	189.3	12,000 *	26.6	202.1	13,100 *	33.5	217.2	14,700 *	39.1	227.4	16,300 *	44.0	234.0	16,000				180
190				8.5	152.0	10,500 *	17.7	177.6	11,400 *	26.8	200.0	13,200 *	33.4	213.8	14,700 *	38.9	222.7	14,500	43.6	228.2	12,600	190
200										17.9	175.7	11,500 *	26.7	196.5	13,200 *	33.2	209.0	13,200	38.5	216.7	11,400	200
210													17.8	172.1	11,500 *	26.4	191.5	12,100	32.7	202.7	10,300	210
220																17.4	166.6	11,000	25.8	184.9	9,300	220
230																			16.4	159.0	8,400	230



# Liftcrane Luffing Jib Capacities

New York City Code

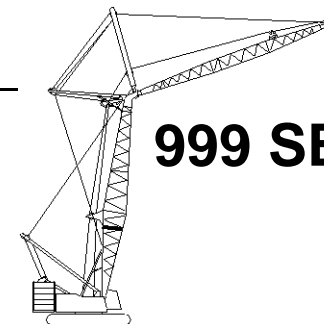
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 130 Ft. Boom, 70 Ft. Jib

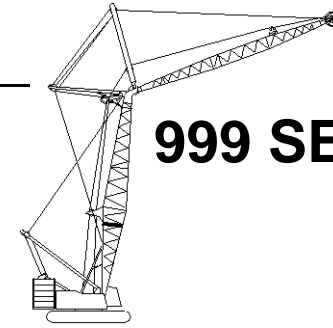
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	61.7	199.5	98,200 *b																			45
50	56.9	196.6	94,000 *b																			50
55	51.9	193.0	90,300 *b	62.9	199.1	101,200 *b																55
60	46.5	188.7	87,100 *	58.2	196.3	97,000 *b																60
65	40.5	183.4	80,400 *	53.2	192.9	93,200 *b	59.8	196.2	98,900 *b													65
70	33.7	176.8	73,000 *	47.9	188.8	89,800 *	54.9	193.0	92,800 b													70
75	25.4	168.0	66,800 *	42.1	183.8	83,000 *	49.8	189.1	85,200	60.8	194.1	80,700 b										75
80	13.0	153.6	53,100 *	35.6	177.6	75,000 *	44.2	184.5	78,800	56.0	191.1	74,600 b										80
85				27.8	169.5	68,300 *	37.9	178.7	73,200	50.9	187.4	69,300 b										85
90				17.0	157.3	61,200 *	30.7	171.4	68,200	45.4	182.9	64,600	56.7	188.0	61,100 b							90
95							21.3	161.2	63,800	39.3	177.4	60,500	51.7	184.4	57,200 b							95
100										32.3	170.4	56,800	46.2	180.0	53,700							100
105										23.5	161.0	53,500	40.3	174.7	50,600	52.1	180.2	47,700 b				105
110										8.8	143.7	50,400	33.4	168.0	47,800	46.7	175.9	45,100				110
115													25.0	159.1	45,200	40.8	170.6	42,700				115
120													12.2	144.2	42,800	34.0	164.1	40,400	46.7	170.4	38,100	120
125																25.8	155.4	38,400	40.7	165.2	36,200	125
130																13.7	141.5	36,500	34.0	158.6	34,400	130
135																			25.7	149.9	32,800	135
140																			13.6	135.9	31,200	140



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 130 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	65.5	210.7	88,000 *b																			45
50	61.5	208.2	84,200 *b																			50
55	57.3	205.2	80,500 *b	66.5	210.2	90,500 *b																55
60	52.9	201.8	77,300 *	62.5	207.8	86,600 *b																60
65	48.3	197.6	74,300 *	58.4	205.0	82,900 *b	63.9	207.5	88,200 *b													65
70	43.3	192.8	71,600 *	54.1	201.6	79,500 *	59.8	204.9	84,500 *b													70
75	37.8	186.9	67,300 *	49.5	197.7	76,400 *	55.6	201.7	81,100 *													75
80	31.5	179.7	61,700 *	44.6	193.0	73,600 *	51.1	198.0	78,000 *	60.7	202.8	74,200 b										80
85	23.8	170.2	56,900 *	39.3	187.5	68,900 *	46.4	193.6	72,900	56.5	199.8	68,900										85
90	12.1	154.7	46,100 *	33.2	180.7	63,100 *	41.2	188.4	68,000	52.1	196.2	64,300										90
95				26.0	171.9	58,100 *	35.4	182.0	63,600	47.4	191.9	60,200	57.1	196.6	56,800							95
100				15.9	158.8	53,100 *	28.6	174.1	59,800 *	42.3	186.9	56,500	52.8	193.1	53,300							100
105							19.9	163.0	55,200 *	36.7	180.8	53,300	48.1	189.0	50,200							105
110										30.1	173.2	50,300	43.1	184.1	47,400							110
115										22.0	163.0	47,600	37.6	178.2	44,900	48.5	184.8	42,300				115
120										8.2	144.5	45,000	31.2	170.9	42,600	43.5	180.0	40,100				120
125													23.4	161.2	40,400	38.0	174.2	38,100				125
130													11.4	145.3	38,400	31.8	167.0	36,200	43.5	174.6	34,000	130
135																24.1	157.6	34,500	38.0	168.8	32,400	135
140																12.8	142.6	32,900	31.7	161.6	30,900	140
145																			24.1	152.1	29,500	145
150																			12.7	137.1	28,200	150



# Liftcrane Luffing Jib Capacities

New York City Code

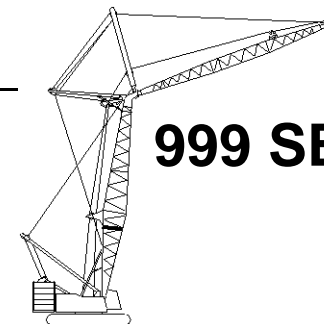
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 130 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	68.3	221.6	79,800 *b																			45
50	64.9	219.4	76,400 *b																			50
55	61.3	216.9	73,300 *	69.2	221.0	81,800 *b																55
60	57.6	213.9	70,400 *	65.8	218.9	78,500 *b																60
65	53.8	210.5	67,600 *	62.2	216.5	75,500 *b	67.0	218.5	79,600 *b													65
70	49.7	206.5	65,200 *	58.6	213.6	72,600 *	63.5	216.2	76,700 *b													70
75	45.4	202.0	62,900 *	54.8	210.3	69,800 *	59.8	213.5	73,900 *													75
80	40.7	196.6	60,800 *	50.8	206.5	67,300 *	56.1	210.4	71,200 *													80
85	35.6	190.3	56,900 *	46.5	202.1	64,900 *	52.2	206.8	68,700 *	60.6	211.5	68,700										85
90	29.7	182.4	52,700 *	42.0	197.0	62,700 *	48.0	202.6	66,300 *	56.9	208.4	64,100										90
95	22.4	172.2	49,100 *	37.0	190.9	58,100 *	43.6	197.7	63,500	53.0	204.9	60,000										95
100	11.4	155.7	41,200 *	31.3	183.5	53,800 *	38.7	192.0	59,600	48.9	200.9	56,300	57.5	205.3	53,100							100
105				24.5	174.1	50,000 *	33.3	185.1	55,200 *	44.5	196.2	53,100	53.6	201.9	50,000							105
110				15.0	160.2	46,600 *	27.0	176.5	51,200 *	39.8	190.6	50,100	49.5	197.9	47,200							110
115							18.8	164.7	47,700 *	34.5	184.0	47,500	45.2	193.3	44,700							115
120										28.4	175.8	45,000	40.5	187.9	42,400	49.9	193.7	39,800				120
125										20.7	164.9	42,800	35.3	181.5	40,300	45.6	189.2	37,900				125
130										7.7	145.2	40,600	29.4	173.6	38,400	40.9	183.9	36,000				130
135													22.0	163.2	36,500	35.8	177.6	34,300				135
140													10.7	146.2	34,800	29.9	169.8	32,800	45.5	183.7	32,200	140
145																22.7	159.7	31,300	35.7	172.1	29,400	145
150																12.0	143.7	29,900	29.9	164.3	28,100	150
155																			22.7	154.2	26,900	155
160																			11.9	138.2	25,700	160

# Manitowoc Cranes, Inc.

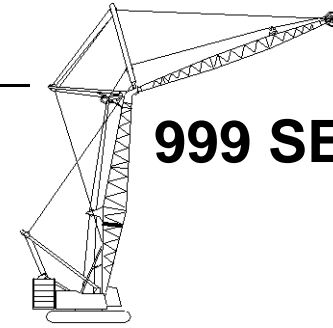
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 130 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	70.6	232.2	74,500 *b																			45
50	67.5	230.3	71,300 *b																			50
55	64.4	228.1	68,200 *																			55
60	61.2	225.5	65,300 *	68.3	229.8	73,000 *b																60
65	57.8	222.6	62,700 *	65.2	227.6	70,000 *																65
70	54.4	219.2	60,100 *	62.0	225.1	67,200 *	66.3	227.3	71,000 *b													70
75	50.8	215.4	57,800 *	58.7	222.3	64,600 *	63.1	224.9	68,300 *													75
80	47.0	211.0	55,600 *	55.3	219.0	62,000 *	59.9	222.2	65,800 *													80
85	42.9	206.0	53,600 *	51.7	215.3	59,600 *	56.5	219.1	63,200 *													85
90	38.5	200.2	51,800 *	48.0	211.1	57,400 *	53.0	215.5	60,900 *	60.5	220.1	63,700										90
95	33.7	193.4	48,800 *	44.0	206.3	55,300 *	49.3	211.5	58,600 *	57.2	217.1	59,600										95
100	28.1	185.0	45,500 *	39.7	200.7	53,400 *	45.4	206.9	56,500 *	53.7	213.7	56,000										100
105	21.2	174.1	42,600 *	35.0	194.2	49,700 *	41.2	201.6	54,500 *	50.1	209.7	52,700	57.7	214.0	49,600							105
110	10.8	156.7	36,800 *	29.6	186.3	46,300 *	36.7	195.4	50,900 *	46.2	205.3	49,800	54.3	210.6	46,800							110
115				23.2	176.2	43,400 *	31.6	188.0	47,500 *	42.1	200.1	47,100	50.6	206.8	44,300							115
120				14.2	161.4	40,700 *	25.6	178.9	44,400 *	37.6	194.1	44,700	46.8	202.4	42,000							120
125							17.8	166.3	41,600 *	32.7	187.0	42,500	42.8	197.3	39,900	50.9	202.6	37,400				125
130										26.9	178.3	40,400	38.4	191.5	38,000	47.1	198.2	35,600				130
135										19.6	166.7	38,500	33.5	184.6	36,200	43.1	193.3	34,000				135
140										7.3	145.8	36,700	27.8	176.2	34,600	38.7	187.5	32,400	47.1	192.8	30,300	140
145													20.9	165.1	33,100	33.9	180.7	31,000	43.1	187.8	29,000	145
150													10.2	147.1	31,600	28.3	172.4	29,600	38.7	182.0	27,700	150
155																21.5	161.6	28,400	33.8	175.2	26,500	155
160																11.4	144.7	27,200	28.3	166.9	25,400	160
170																			11.3	139.2	23,300	170



# Liftcrane Luffing Jib Capacities

New York City Code

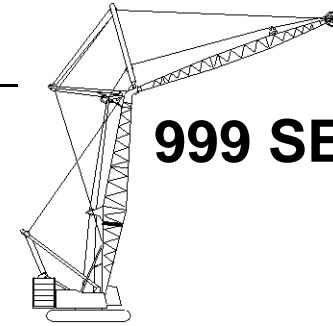
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 130 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	72.4	242.8	69,800 *b																			45
50	69.7	241.1	67,300 *b																			50
55	66.9	239.1	64,800 *																			55
60	64.0	236.8	62,500 *	70.4	240.4	68,500 *b																60
65	61.1	234.2	60,200 *	67.6	238.5	66,300 *																65
70	58.0	231.2	57,900 *	64.7	236.3	64,000 *																70
75	54.9	227.9	55,700 *	61.8	233.8	61,800 *	65.7	236.0	64,700 *													75
80	51.7	224.2	53,600 *	58.8	231.0	59,400 *	62.8	233.6	62,700 *													80
85	48.3	220.0	51,700 *	55.7	227.7	57,200 *	59.9	230.8	60,400 *													85
90	44.7	215.3	49,900 *	52.5	224.1	55,100 *	56.8	227.8	58,200 *													90
95	40.8	209.9	48,200 *	49.2	220.1	53,100 *	53.6	224.3	56,100 *	60.5	228.8	59,500										95
100	36.7	203.6	46,200 *	45.6	215.5	51,300 *	50.3	220.4	54,100 *	57.5	225.8	55,900										100
105	32.1	196.3	43,100 *	41.9	210.2	49,600 *	46.9	216.0	52,300 *	54.3	222.4	52,700										105
110	26.8	187.4	40,300 *	37.8	204.2	47,200 *	43.2	211.0	50,500 *	51.0	218.6	49,800	57.9	222.7	46,800							110
115	20.2	175.9	37,700 *	33.3	197.2	44,000 *	39.2	205.3	48,500 *	47.6	214.3	47,100	54.8	219.3	44,300							115
120	10.3	157.7	32,200 *	28.2	188.8	41,100 *	34.9	198.6	45,200 *	44.0	209.4	44,700	51.5	215.6	42,000							120
125				22.1	178.2	38,500 *	30.1	190.8	42,200 *	40.1	203.9	42,500	48.1	211.4	39,900							125
130				13.6	162.7	36,000 *	24.4	181.1	39,400 *	35.8	197.5	40,500	44.5	206.6	38,000	51.8	211.4	35,600				130
135							17.0	167.8	36,900 *	31.1	189.9	38,600	40.7	201.2	36,200	48.4	207.2	33,900				135
140										25.6	180.6	36,900	36.5	194.9	34,600	44.8	202.5	32,400				140
145										18.7	168.4	35,200	31.9	187.5	33,100	41.0	197.1	31,000				145
150										7.0	146.5	33,700	26.5	178.6	31,700	36.9	190.9	29,700	44.8	197.0	27,700	150
155													19.9	166.9	30,300	32.3	183.7	28,400	41.0	191.7	26,500	155
160													9.7	148.0	29,100	27.0	174.9	27,200	36.8	185.5	25,400	160
170																10.9	145.7	25,100	27.0	169.4	23,400	170
180																			10.8	140.1	21,600	180



# Manitowoc Cranes, Inc.

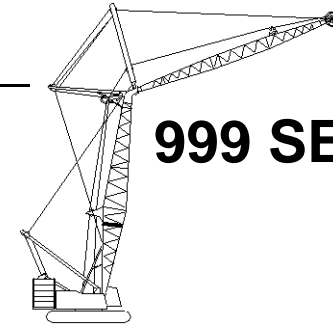
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

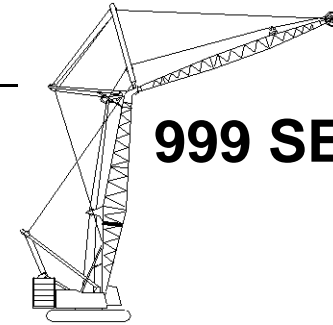
Designed And Tested  
 With The Intent To Be In  
 The Scope of ANSI B30.5



## 999 SERIES 3

### 130 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	73.9	253.2	57,200 *b																			45
50	71.4	251.7	56,000 *b																			50
55	68.9	249.9	55,000 *																			55
60	66.3	247.8	53,300 *																			60
65	63.7	245.5	51,300 *	69.6	249.3	56,200 *																65
70	61.0	242.8	49,300 *	67.0	247.3	54,400 *																70
75	58.2	239.9	47,400 *	64.4	245.0	52,400 *	67.9	246.9	54,800 *													75
80	55.4	236.6	45,500 *	61.7	242.5	50,400 *	65.3	244.7	53,000 *													80
85	52.4	233.0	43,800 *	58.9	239.6	48,400 *	62.6	242.2	51,100 *													85
90	49.3	228.9	42,200 *	56.1	236.4	46,600 *	59.9	239.5	49,200 *													90
95	46.1	224.4	40,600 *	53.2	232.9	44,900 *	57.1	236.4	47,400 *													95
100	42.7	219.3	39,200 *	50.1	228.9	43,200 *	54.2	233.0	45,600 *	60.5	237.4	49,200 *										100
105	39.0	213.5	37,900 *	46.9	224.5	41,600 *	51.2	229.2	44,000 *	57.7	234.5	47,500 *										105
110	35.1	206.9	36,700 *	43.6	219.6	40,100 *	48.1	225.0	42,400 *	54.8	231.1	45,900 *										110
115	30.7	199.1	35,500 *	40.0	214.0	38,800 *	44.8	220.2	40,900 *	51.8	227.4	44,300 *										115
120	25.6	189.8	34,500 *	36.1	207.6	37,500 *	41.3	214.8	39,500 *	48.7	223.2	42,800 *	55.2	228.0	41,600							120
125	19.4	177.7	33,200 *	31.9	200.2	36,300 *	37.5	208.7	38,200 *	45.5	218.6	41,300 *	52.3	224.4	39,500							125
130	9.9	158.5	28,800 *	27.0	191.3	35,300 *	33.4	201.7	36,900 *	42.0	213.3	39,900 *	49.2	220.3	37,600							130
135				21.1	180.1	34,300 *	28.7	193.4	35,800 *	38.3	207.4	38,300	46.0	215.7	35,900	52.5	220.2	33,500				135
140				13.0	163.8	32,100 *	23.3	183.2	34,800 *	34.3	200.6	36,600	42.5	210.6	34,300	49.4	216.1	32,000				140
145							16.2	169.3	32,900 *	29.8	192.6	35,000	38.9	204.8	32,800	46.2	211.6	30,600				145
150										24.5	182.9	33,500	34.9	198.1	31,400	42.8	206.5	29,300				150
155										17.9	170.0	32,100	30.5	190.3	30,000	39.2	200.7	28,000	46.2	206.1	26,100	155
160										6.7	147.1	30,700	25.4	180.9	28,800	35.2	194.2	26,900	42.8	201.1	25,000	160
170													9.3	148.8	26,500	25.8	177.2	24,800	35.2	188.7	23,100	170
180																10.4	146.6	22,900	25.8	171.7	21,300	180
190																			10.3	141.1	19,700	190



**999 SERIES 3**

**Liftcrane Luffing Jib Capacities**

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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

**130 Ft. Boom, 130 Ft. Jib**

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	75.2	263.6	53,500 *b																			45
50	72.9	262.2	52,500 *																			50
55	70.6	260.5	51,200 *																			55
60	68.2	258.6	49,300 *																			60
65	65.8	256.5	47,500 *																			65
70	63.4	254.1	45,700 *	68.8	258.1	50,200 *																70
75	60.9	251.5	43,900 *	66.5	256.0	48,400 *																75
80	58.4	248.6	42,200 *	64.0	253.7	46,600 *	67.3	255.6	48,800 *													80
85	55.7	245.3	40,700 *	61.6	251.1	44,900 *	64.9	253.4	47,100 *													85
90	53.0	241.8	39,100 *	59.0	248.3	43,200 *	62.4	250.9	45,500 *													90
95	50.2	237.8	37,700 *	56.4	245.1	41,600 *	59.9	248.2	43,900 *													95
100	47.3	233.4	36,300 *	53.7	241.6	40,100 *	57.3	245.1	42,300 *	62.9	248.8	45,200 *										100
105	44.2	228.5	35,000 *	50.9	237.8	38,600 *	54.7	241.7	40,800 *	60.4	246.1	43,800 *										105
110	40.9	223.1	33,700 *	48.0	233.5	37,200 *	51.9	238.0	39,300 *	57.8	243.1	41,700 *										110
115	37.4	216.9	32,600 *	45.0	228.7	35,800 *	49.0	233.9	37,900 *	55.2	239.8	39,300 *										115
120	33.7	210.0	31,500 *	41.8	223.5	34,500 *	46.1	229.3	36,500 *	52.5	236.2	37,100 *										120
125	29.4	201.8	30,500 *	38.4	217.5	33,400 *	42.9	224.2	35,200 *	49.6	232.1	35,200 *	55.6	236.7	31,700 *							125
130	24.6	192.0	29,600 *	34.7	210.8	32,200 *	39.6	218.5	34,000 *	46.7	227.6	33,300 *	52.9	233.1	30,000 *							130
135	18.6	179.4	28,800 *	30.6	203.0	31,200 *	36.0	212.1	32,800 *	43.6	222.7	31,700 *	50.1	229.2	28,500 *							135
140	9.5	159.4	25,700 *	25.9	193.6	30,200 *	32.0	204.7	31,700 *	40.3	217.1	30,100 *	47.1	224.8	27,100 *							140
145				20.3	181.9	29,400 *	27.6	195.9	30,700 *	36.7	210.8	28,700 *	44.1	219.9	25,700 *	50.3	225.0	22,900 *				145
150				12.5	164.9	28,600 *	22.4	185.2	29,800 *	32.9	203.6	27,300 *	40.8	214.4	24,500 *	47.4	220.6	21,800 *				150
155							15.6	170.7	28,800 *	28.6	195.2	26,100 *	37.3	208.2	23,400 *	44.3	215.8	20,700 *				155
160										23.5	185.0	24,900 *	33.5	201.2	22,300 *	41.1	210.3	19,700 *	47.4	215.2	17,200 *	160
170										6.4	147.6	22,600 *	24.4	183.1	20,300 *	33.8	197.3	17,900 *	41.0	204.9	15,600 *	170
180													8.9	149.6	18,500 *	24.8	179.4	16,300 *	33.8	191.8	14,200 *	180
190																10.0	147.5	14,800 *	24.8	174.0	12,900 *	190
200																			9.9	142.0	11,600 *	200

# Manitowoc Cranes, Inc.

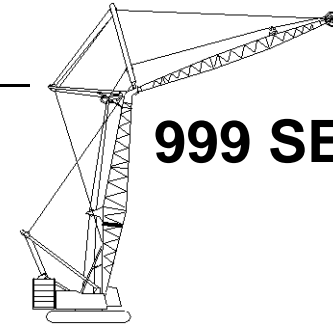
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

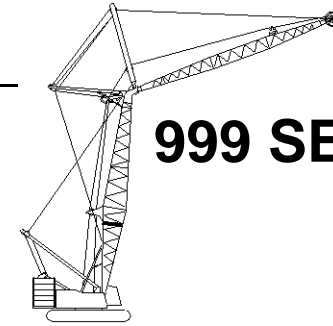
Designed And Tested  
 With The Intent To Be In  
 The Scope of ANSI B30.5



## 999 SERIES 3

### 130 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	74.2	272.6	48,900 *																			50
55	72.0	271.1	47,300 *																			55
60	69.9	269.3	45,500 *																			60
65	67.7	267.4	43,700 *																			65
70	65.4	265.2	42,000 *	70.4	268.7	46,100 *																70
75	63.2	262.8	40,400 *	68.2	266.8	44,500 *																75
80	60.8	260.2	38,800 *	66.0	264.7	42,800 *																80
85	58.5	257.2	37,200 *	63.7	262.4	41,200 *	66.8	264.4	43,200 *													85
90	56.0	254.0	35,700 *	61.4	259.8	39,600 *	64.5	262.1	41,700 *													90
95	53.5	250.5	34,300 *	59.1	256.9	38,100 *	62.2	256.9	40,200 *													95
100	50.9	246.6	33,000 *	56.7	253.8	36,600 *	59.9	256.8	38,700 *													100
105	48.3	242.4	31,700 *	54.2	250.4	35,200 *	57.5	253.8	37,200 *	62.7	257.5	39,900 *										105
110	45.4	237.7	30,400 *	51.6	246.6	33,800 *	55.0	250.4	35,800 *	60.4	254.8	38,600 *										110
115	42.5	232.5	29,200 *	49.0	242.4	32,400 *	52.5	246.8	34,400 *	58.0	251.8	37,300 *										115
120	39.4	226.7	28,100 *	46.2	237.8	31,200 *	49.9	242.8	33,000 *	55.6	248.5	35,900 *										120
125	36.0	220.3	27,100 *	43.3	232.8	30,000 *	47.2	238.3	31,800 *	53.0	244.9	34,600 *										125
130	32.4	212.9	26,000 *	40.2	227.2	28,800 *	44.3	233.5	30,500 *	50.4	241.0	32,900	55.9	245.4	29,500							130
135	28.3	204.4	25,100 *	36.9	220.9	27,700 *	41.3	228.1	29,400 *	47.7	236.6	31,200	53.4	241.9	28,000							135
140	23.7	194.1	24,300 *	33.4	213.8	26,700 *	38.1	222.0	28,200 *	44.9	231.9	29,700	50.8	238.0	26,500							140
145	17.9	181.0	23,600 *	29.4	205.6	25,700 *	34.6	215.2	27,200 *	41.9	226.6	28,200	48.1	233.7	25,200							145
150	9.2	160.2	23,000 *	25.0	195.9	24,800 *	30.8	207.5	26,200 *	38.8	220.7	26,900	45.3	229.0	24,000	51.0	233.8	21,200				150
155				19.6	183.7	24,100 *	26.6	198.3	25,300 *	35.4	214.1	25,600	42.4	223.8	22,900	48.4	229.6	20,200				155
160				12.0	166.0	23,400 *	21.6	187.1	24,500 *	31.6	206.5	24,500	39.2	218.0	21,800	45.6	224.9	19,200				160
170										22.7	187.0	22,300	32.2	204.1	19,900	39.5	214.0	17,400	45.5	219.5	15,100	170
180										6.2	148.2	20,400	23.5	185.2	18,100	32.5	200.2	15,900	39.5	208.5	13,700	180
190													8.6	150.4	16,500	23.9	181.6	14,400	32.5	194.8	12,400	190
200																9.6	148.4	13,100	23.8	176.1	11,200	200
210																			9.6	142.8	10,100	210



**999 SERIES 3**

**Liftcrane Luffing Jib Capacities**

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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

**130 Ft. Boom, 150 Ft. Jib**

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	75.2	283.0	45,500 *																			50
55	73.3	281.6	43,800 *																			55
60	71.3	280.0	42,100 *																			60
65	69.2	278.2	40,500 *																			65
70	67.2	276.2	38,900 *																			70
75	65.1	273.9	37,300 *	69.7	277.6	41,000 *																75
80	63.0	271.5	35,800 *	67.7	275.6	39,500 *																80
85	60.8	268.8	34,300 *	65.6	273.4	38,000 *																85
90	58.6	265.9	32,900 *	63.5	271.1	36,500 *	66.3	273.1	38,300 *													90
95	56.3	262.7	31,500 *	61.3	268.5	35,000 *	64.2	270.8	36,900 *													95
100	54.0	259.2	30,200 *	59.1	265.6	33,600 *	62.1	268.3	35,500 *													100
105	51.6	255.4	28,900 *	56.9	262.5	32,200 *	59.9	265.5	34,100 *													105
110	49.1	251.3	27,700 *	54.6	259.1	30,900 *	57.7	262.5	32,800 *	62.5	266.2	35,300 *										110
115	46.5	246.8	26,500 *	52.2	255.4	29,600 *	55.4	259.2	31,400 *	60.4	263.4	34,100 *										115
120	43.8	241.8	25,400 *	49.7	251.3	28,400 *	53.0	255.5	30,200 *	58.1	260.5	32,800 *										120
125	41.0	236.3	24,400 *	47.2	246.9	27,200 *	50.6	251.6	28,900 *	55.9	257.2	31,600 *										125
130	38.0	230.2	23,400 *	44.5	242.0	26,000 *	48.1	247.3	27,700 *	53.5	253.7	30,400 *										130
135	34.8	223.5	22,400 *	41.7	236.7	25,000 *	45.5	242.6	26,600 *	51.1	249.8	29,200 *	56.2	254.1	27,800							135
140	31.3	215.8	21,500 *	38.8	230.8	23,900 *	42.7	237.5	25,500 *	48.6	245.6	28,000 *	53.9	250.6	26,400							140
145	27.4	206.9	20,700 *	35.6	224.2	23,000 *	39.8	231.8	24,400 *	46.0	241.0	26,900 *	51.5	246.8	25,100							145
150	22.9	196.2	19,900 *	32.2	216.8	22,000 *	36.7	225.4	23,400 *	43.3	235.9	25,800 *	49.0	242.7	23,900							150
155	17.3	182.5	19,300 *	28.4	208.2	21,200 *	33.4	218.3	22,500 *	40.4	230.3	24,800 *	46.4	238.1	22,800	51.7	242.6	20,000				155
160	8.8	161.0	18,700 *	24.1	198.1	20,400 *	29.8	210.2	21,600 *	37.4	224.1	23,800 *	43.7	233.1	21,700	49.2	238.5	19,100				160
170				11.6	167.0	19,000 *	20.8	189.0	20,000 *	30.5	209.3	21,900 *	37.9	221.5	19,800	43.9	229.0	17,300				170
180										21.9	189.0	20,300 *	31.1	207.0	18,000	38.1	217.5	15,800	43.9	223.6	13,500	180
190										6.0	148.7	18,600	22.7	187.2	16,500	31.4	203.1	14,400	38.1	212.1	12,300	190
200													8.3	151.2	15,000	23.1	183.7	13,100	31.4	197.6	11,100	200
210																9.3	149.2	11,900	23.0	178.2	10,100	210
220																			9.2	143.6	9,100	220

# Manitowoc Cranes, Inc.

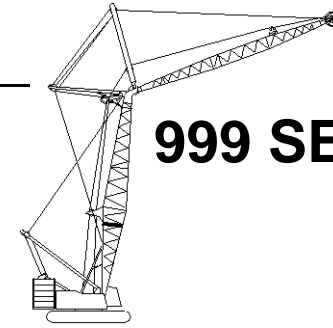
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 130 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	74.3	292.0	40,300 *																			55
60	72.5	290.5	38,700 *																			60
65	70.6	288.8	37,100 *																			65
70	68.7	286.9	35,600 *																			70
75	66.7	284.9	34,100 *																			75
80	64.8	282.6	32,600 *	69.2	286.4	36,100 *																80
85	62.8	280.2	31,200 *	67.2	284.4	34,700 *																85
90	60.7	277.5	29,800 *	65.3	282.2	33,200 *	67.9	283.9	34,900 *													90
95	58.7	274.6	28,500 *	63.3	279.7	31,900 *	65.9	281.8	33,600 *													95
100	56.5	271.4	27,200 *	61.3	277.1	30,500 *	64.0	279.5	32,300 *													100
105	54.4	268.0	26,000 *	59.2	274.3	29,100 *	62.0	276.9	30,900 *													105
110	52.1	264.2	24,800 *	57.1	271.2	27,900 *	59.9	274.1	29,600 *													110
115	49.8	260.2	23,700 *	54.9	267.8	26,600 *	57.8	271.1	28,300 *	62.4	274.8	30,800 *										115
120	47.4	255.8	22,600 *	52.7	264.1	25,400 *	55.7	267.8	27,100 *	60.3	272.1	29,600 *										120
125	45.0	251.0	21,500 *	50.4	260.2	24,200 *	53.5	264.3	25,900 *	58.3	269.1	28,400 *										125
130	42.4	245.7	20,500 *	48.1	255.9	23,100 *	51.2	260.4	24,700 *	56.1	265.9	27,300 *										130
135	39.6	240.0	19,600 *	45.6	251.2	22,100 *	48.9	256.2	23,600 *	53.9	262.4	26,100 *										135
140	36.7	233.6	18,700 *	43.0	246.0	21,000 *	46.5	251.7	22,500 *	51.7	258.6	25,000 *	56.5	262.8	25,900							140
145	33.6	226.5	17,800 *	40.4	240.4	20,100 *	43.9	246.7	21,500 *	49.4	254.5	23,900 *	54.3	259.4	24,600							145
150	30.2	218.5	17,000 *	37.5	234.2	19,200 *	41.3	241.3	20,500 *	47.0	250.0	22,800 *	52.0	255.6	23,400							150
155	26.5	209.3	16,300 *	34.5	227.4	18,300 *	38.5	235.3	19,600 *	44.5	245.1	21,800 *	49.7	251.5	22,300							155
160	22.1	198.2	15,600 *	31.2	219.6	17,400 *	35.5	228.7	18,700 *	41.9	239.8	20,800 *	47.3	247.1	21,200	52.2	251.4	18,500				160
170	8.6	161.7	14,500 *	23.3	200.2	15,900 *	28.8	212.8	17,000 *	36.2	227.5	19,000 *	42.3	237.1	19,300	47.5	243.0	16,800				170
180				11.3	168.0	14,700 *	20.1	190.8	15,600 *	29.6	212.0	17,300 *	36.6	224.9	17,600	42.5	233.0	15,300	47.5	237.5	13,000	180
190										21.2	190.9	15,800 *	30.1	209.7	16,100	36.9	220.9	13,900	42.5	227.5	11,700	190
200										5.8	149.2	14,700 *	21.9	189.2	14,700	30.4	205.9	12,600	36.8	215.5	10,600	200
210													8.1	151.9	13,400	22.3	185.7	11,500	30.4	200.4	9,600	210
220																9.0	150.0	10,400	22.3	180.2	8,600	220
230																			9.0	144.4	7,700	230



# Liftcrane Luffing Jib Capacities

New York City Code

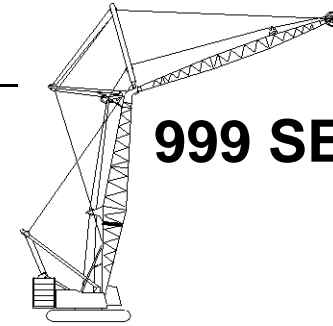
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 130 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	75.3	302.3	37,200 *																			55
60	73.5	300.9	35,700 *																			60
65	71.8	299.4	34,300 *																			65
70	70.0	297.6	32,800 *																			70
75	68.2	295.7	31,400 *																			75
80	66.3	293.6	30,000 *	70.4	297.0	33,200 *																80
85	64.5	291.3	28,700 *	68.6	295.1	31,900 *																85
90	62.6	288.9	27,400 *	66.8	293.1	30,500 *																90
95	60.7	286.2	26,100 *	65.0	290.9	29,200 *	67.4	292.7	30,800 *													95
100	58.7	283.2	24,900 *	63.1	288.4	27,900 *	65.6	290.5	29,500 *													100
105	56.7	280.1	23,700 *	61.2	285.8	26,700 *	63.7	288.2	28,300 *													105
110	54.7	276.7	22,600 *	59.2	282.9	25,400 *	61.8	285.6	27,100 *													110
115	52.6	273.0	21,500 *	57.3	279.8	24,200 *	59.9	282.8	25,900 *													115
120	50.5	269.0	20,400 *	55.2	276.5	23,100 *	58.0	279.8	24,700 *	62.2	283.5	27,000 *										120
125	48.2	264.7	19,400 *	53.2	272.9	22,000 *	55.9	276.5	23,500 *	60.3	280.8	25,900 *										125
130	45.9	260.1	18,400 *	51.0	269.0	20,900 *	53.9	273.0	22,400 *	58.4	277.8	24,800 *										130
135	43.5	255.0	17,500 *	48.8	264.8	19,900 *	51.8	269.2	21,300 *	56.4	274.6	23,700 *										135
140	41.0	249.5	16,600 *	46.5	260.2	18,900 *	49.6	265.1	20,300 *	54.3	271.1	22,600 *										140
145	38.4	243.5	15,800 *	44.2	255.3	17,900 *	47.3	260.7	19,300 *	52.2	267.4	21,500 *	56.7	271.5	23,500 *							145
150	35.6	236.9	15,000 *	41.7	249.9	17,000 *	45.0	255.9	18,300 *	50.0	263.4	20,500 *	54.6	268.1	22,500 *							150
155	32.6	229.5	14,300 *	39.1	244.0	16,200 *	42.6	250.7	17,400 *	47.8	259.0	19,500 *	52.5	264.4	21,500 *							155
160	29.3	221.2	13,500 *	36.3	237.6	15,400 *	40.0	245.0	16,600 *	45.5	254.3	18,600 *	50.4	260.4	20,600 *							160
170	21.5	200.1	12,000 *	30.2	222.3	13,900 *	34.4	231.8	14,900 *	40.5	243.6	16,800 *	45.8	251.4	18,700 *	50.5	256.2	16,400				170
180	8.3	162.5	10,500 *	22.6	202.2	12,300 *	27.9	215.3	13,500 *	35.0	230.7	15,200 *	40.9	240.8	17,000 *	46.0	247.3	14,900				180
190				10.9	169.0	10,700 *	19.5	192.6	11,800 *	28.7	214.6	13,700 *	35.5	228.1	15,300 *	41.1	236.8	13,500	46.0	241.9	11,400	190
200										20.6	192.7	12,000 *	29.2	212.3	13,900 *	35.7	224.2	12,300	41.1	231.3	10,300	200
210										5.6	149.7	10,500 *	21.3	191.1	12,100 *	29.5	208.5	11,200	35.7	218.7	9,300	210
220													7.8	152.6	10,600 *	21.6	187.6	10,100	29.4	203.1	8,300	220
230																8.8	150.8	9,100	21.6	182.1	7,500	230
240																			8.7	145.2	6,600	240

# Manitowoc Cranes, Inc.

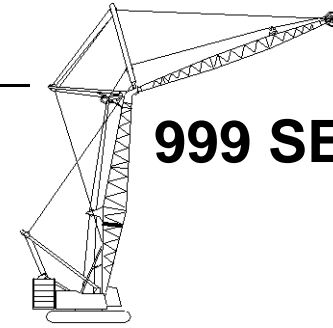
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	62.0	209.7	98,000 *b																			45
50	57.3	206.8	93,900 *b																			50
55	52.2	203.2	90,300 *b																			55
60	46.9	199.0	87,100 *	59.3	207.0	97,600 *b																60
65	41.0	193.8	81,000 *	54.4	203.7	93,900 *b	61.4	207.0	100,000 *b													65
70	34.2	187.3	73,500 *	49.2	199.8	90,300 *	56.7	204.0	92,000 b													70
75	26.1	178.7	66,000 *	43.6	195.0	83,400 *	51.6	200.4	84,600 b													75
80	14.2	165.1	51,800 *	37.3	189.1	76,900 *	46.2	196.1	78,100	58.5	202.4	73,700 b										80
85				29.9	181.6	69,900 *	40.2	190.7	72,600	53.5	199.0	68,400 b										85
90				20.2	170.9	61,400 *	33.3	184.0	67,700	48.3	195.0	63,800										90
95							24.9	175.1	63,300	42.5	190.0	59,700	55.1	196.3	56,100 b							95
100							12.0	160.1	54,700 *	36.1	183.9	56,100	50.0	192.5	52,700							100
105										28.4	176.0	52,800	44.4	187.8	49,700							105
110										18.0	164.3	49,800	38.2	182.2	46,900	51.3	188.6	44,000 b				110
115													31.0	174.9	44,400	45.8	184.2	41,600				115
120													21.8	164.8	42,100	39.8	178.8	39,500				120
125																32.9	172.0	37,500	46.7	179.1	35,000	125
130																24.3	162.8	35,600	40.7	173.9	33,300	130
135																10.6	146.9	33,900	34.0	167.3	31,800	135
140																			25.7	158.6	30,300	140
145																			13.6	144.6	28,900	145



# Liftcrane Luffing Jib Capacities

New York City Code

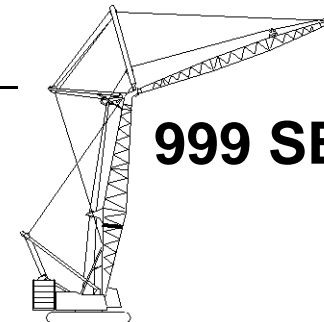
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	65.7	220.8	87,700 *b																			45
50	61.8	218.4	84,000 *b																			50
55	57.6	215.5	80,600 *b	67.4	220.6	90,800 *b																55
60	53.3	212.0	77,300 *	63.5	218.3	87,100 *b																60
65	48.6	207.9	74,300 *	59.4	215.6	83,600 *b	65.3	218.2	89,000 *b													65
70	43.7	203.1	71,700 *	55.2	212.4	80,200 *	61.3	215.7	85,600 *b													70
75	38.2	197.4	67,700 *	50.7	208.6	77,100 *	57.1	212.7	82,200 *b													75
80	32.0	190.3	62,100 *	45.9	204.2	74,300 *	52.7	209.2	77,800	62.8	213.9	73,200 b										80
85	24.4	180.9	56,400 *	40.6	198.9	70,500 *	48.1	205.1	72,300	58.7	211.1	68,000 b										85
90	13.3	166.3	45,000 *	34.8	192.4	64,400 *	43.0	200.1	67,400	54.4	207.7	63,400										90
95				27.9	184.2	59,300 *	37.5	194.2	63,100	49.8	203.9	59,400										95
100				18.9	172.6	53,800 *	31.1	186.9	59,300	45.0	199.3	55,800	55.8	205.0	52,300							100
105							23.3	177.2	55,800	39.7	193.8	52,500	51.3	201.3	49,300							105
110							11.2	161.1	48,400 *	33.7	187.1	49,600	46.6	196.9	46,500							110
115										26.5	178.4	47,000	41.4	191.8	44,000	52.4	197.4	41,200				115
120										16.8	165.8	44,500	35.7	185.5	41,800	47.7	193.2	39,100				120
125													29.0	177.6	39,700	42.7	188.3	37,100				125
130													20.4	166.7	37,700	37.1	182.3	35,300				130
135																30.7	174.8	33,600				135
140																22.7	164.9	32,100	43.5	183.2	31,400	140
145																10.0	147.8	30,600	31.7	170.2	28,600	145
150																			24.1	160.8	27,300	150
155																			12.7	145.7	26,100	155



# Manitowoc Cranes, Inc.

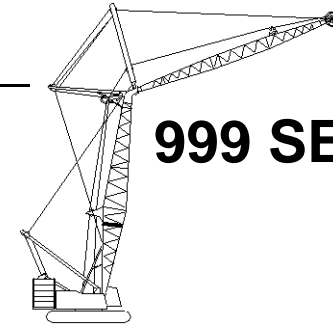
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	68.6	231.7	79,400 *b																			45
50	65.1	229.6	76,100 *b																			50
55	61.6	227.0	73,100 *	70.1	231.4	82,000 *b																55
60	57.9	224.1	70,200 *	66.6	229.4	78,800 *b																60
65	54.0	220.7	67,500 *	63.1	227.0	75,800 *b																65
70	50.0	216.8	65,100 *	59.5	224.3	72,900 *	64.7	226.9	77,300 *b													70
75	45.7	212.3	62,900 *	55.7	221.1	70,300 *	61.1	224.4	74,600 *													75
80	41.1	207.0	60,800 *	51.8	217.4	67,800 *	57.4	221.4	71,900 *													80
85	35.9	200.7	57,200 *	47.6	213.2	65,400 *	53.5	217.9	69,400 *	62.5	222.5	67,800 b										85
90	30.1	193.0	53,000 *	43.1	208.3	63,200 *	49.5	214.0	67,100 *	58.8	219.7	63,200										90
95	23.0	183.0	49,300 *	38.2	202.4	59,200 *	45.1	209.4	63,000	55.0	216.5	59,200										95
100	12.5	167.4	40,000 *	32.7	195.4	54,800 *	40.5	204.0	59,100	51.0	212.7	55,600										100
105				26.3	186.6	50,900 *	35.3	197.5	55,700	46.8	208.3	52,300	56.2	213.7	49,000							105
110				17.8	174.2	47,400 *	29.3	189.6	52,500 *	42.3	203.3	49,400	52.3	210.1	46,300							110
115							22.0	179.2	48,900 *	37.3	197.3	46,800	48.2	205.9	43,800							115
120							10.6	162.1	43,300 *	31.7	190.0	44,400	43.8	201.1	41,600							120
125										25.0	180.7	42,200	38.9	195.4	39,500	49.2	202.1	36,900				125
130										15.8	167.2	40,100	33.6	188.6	37,600	44.9	197.5	35,100				130
135													27.3	180.1	35,800	40.1	192.0	33,400				135
140													19.2	168.4	34,200	34.9	185.5	31,900	45.5	192.4	29,700	140
145																28.9	177.5	30,500	40.9	187.1	28,400	145
150																21.4	166.8	29,200	35.7	180.8	27,100	150
155																9.4	148.7	27,900	29.9	173.0	26,000	155
160																			22.7	162.9	24,900	160



# Liftcrane Luffing Jib Capacities

New York City Code

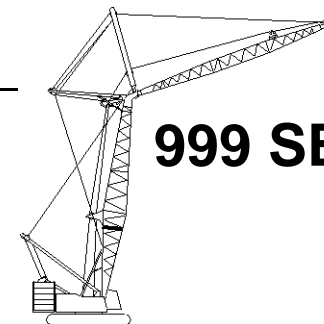
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	70.8	242.4	74,200 *b																			45
50	67.7	240.5	71,000 *b																			50
55	64.6	238.3	68,000 *																			55
60	61.4	235.7	65,200 *	69.1	240.2	73,300 *b																60
65	58.1	232.8	62,600 *	66.0	238.1	70,400 *b																65
70	54.6	229.5	60,100 *	62.8	235.7	67,600 *	67.4	237.9	71,500 *b													70
75	51.0	225.7	57,800 *	59.5	232.9	65,000 *	64.2	235.6	68,900 *													75
80	47.3	221.4	55,700 *	56.1	229.8	62,400 *	61.0	233.0	66,400 *													80
85	43.2	216.4	53,700 *	52.6	226.2	60,100 *	57.7	230.1	63,900 *													85
90	38.9	210.7	51,900 *	48.9	222.1	57,900 *	54.2	226.7	61,600 *	62.2	231.2	62,800										90
95	34.0	203.9	49,000 *	45.0	217.5	55,800 *	50.6	222.8	59,300 *	58.9	228.4	58,800										95
100	28.5	195.7	45,700 *	40.8	212.1	53,900 *	46.8	218.4	57,200 *	55.5	225.2	55,200										100
105	21.8	185.0	42,800 *	36.2	205.8	50,600 *	42.7	213.4	55,300 *	52.0	221.5	52,000										105
110	11.9	168.5	35,600 *	31.0	198.3	47,100 *	38.3	207.5	52,300 *	48.2	217.3	49,100	56.6	222.4	45,900							110
115				24.9	188.9	44,100 *	33.4	200.6	48,600 *	44.3	212.5	46,500	53.1	218.9	43,400							115
120				16.9	175.7	41,300 *	27.8	192.2	45,400 *	40.0	207.0	44,100	49.5	214.8	41,200							120
125							20.8	181.1	42,500 *	35.3	200.5	41,900	45.6	210.3	39,100							125
130							10.0	163.0	38,800 *	30.0	192.7	39,900	41.4	205.0	37,200	50.4	211.0	34,700				130
135										23.7	182.9	38,000	36.9	198.9	35,500	46.5	206.6	33,000				135
140										15.0	168.6	36,300	31.8	191.5	33,900	42.4	201.5	31,500				140
145													25.8	182.4	32,400	38.0	195.6	30,100	47.1	201.5	27,900	145
150													18.2	170.1	31,000	33.1	188.6	28,800	43.1	196.5	26,700	150
155																27.4	180.0	27,600	38.7	190.7	25,600	155
160																20.3	168.7	26,400	33.8	183.9	24,500	160
170																			21.5	164.8	22,500	170

# Manitowoc Cranes, Inc.

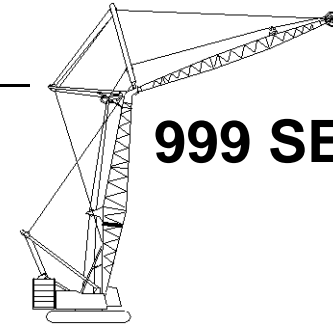
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds			
45	72.6	252.9	69,300 *b																			45		
50	69.9	251.2	66,800 *b																			50		
55	67.1	249.2	64,500 *																			55		
60	64.2	246.9	62,200 *																			60		
65	61.3	244.4	60,000 *	68.3	248.9	66,300 *																65		
70	58.3	241.5	57,800 *	65.4	246.8	64,200 *																70		
75	55.1	238.2	55,700 *	62.6	244.4	62,100 *	66.7	246.6	64,900 *													75		
80	51.9	234.5	53,600 *	59.6	241.6	59,800 *	63.9	244.3	63,000 *													80		
85	48.5	230.3	51,700 *	56.5	238.5	57,700 *	60.9	241.7	61,000 *													85		
90	44.9	225.6	50,000 *	53.3	235.0	55,500 *	57.9	238.7	58,900 *													90		
95	41.1	220.2	48,300 *	50.0	231.0	53,600 *	54.8	235.4	56,800 *	62.0	239.9	58,700										95		
100	37.0	214.1	45,600 *	46.5	226.6	51,700 *	51.5	231.6	54,800 *	59.0	237.0	55,100										100		
105	32.4	206.9	42,700 *	42.8	221.5	50,000 *	48.1	227.4	52,900 *	55.9	233.9	51,900										105		
110	27.2	198.1	40,100 *	38.8	215.7	48,300 *	44.5	222.6	51,200 *	52.7	230.3	49,000										110		
115	20.7	186.9	37,800 *	34.5	209.0	45,200 *	40.6	217.2	49,500 *	49.4	226.2	46,400	56.9	231.1	43,400							115		
120	11.3	169.5	32,700 *	29.5	201.0	42,400 *	36.5	210.9	46,600 *	45.9	221.7	44,100	53.8	227.6	41,100							120		
125				23.7	191.0	40,000 *	31.8	203.5	43,600 *	42.1	216.5	41,900	50.5	223.7	39,100							125		
130				16.1	177.2	37,300 *	26.5	194.6	41,000 *	38.1	210.6	39,900	47.0	219.3	37,200							130		
135							19.8	182.9	38,700 *	33.6	203.6	38,000	43.3	214.4	35,500	51.3	219.8	33,000				135		
140							9.6	163.8	35,000 *	28.6	195.3	36,300	39.4	208.7	33,900	47.9	215.6	31,500				140		
145										22.5	184.9	34,700	35.1	202.1	32,400	44.2	210.8	30,100				145		
150										14.3	169.9	33,200	30.3	194.3	31,000	40.4	205.3	28,800				150		
155													24.6	184.7	29,700	36.2	198.9	27,600			44.8	205.7	25,600	155
160													17.3	171.6	28,500	31.5	191.5	26,500			41.0	200.3	24,500	160
170																19.3	170.4	24,400			32.2	186.9	22,600	170
180																					20.5	166.7	20,800	180



# Liftcrane Luffing Jib Capacities

New York City Code

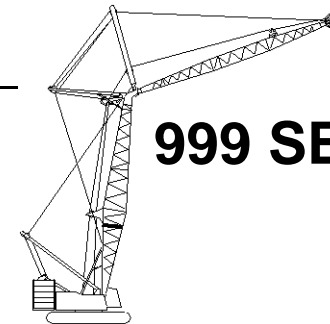
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	74.1	263.3	56,400 *b																			45
50	71.6	261.8	55,300 *b																			50
55	69.1	260.0	54,300 *																			55
60	66.5	257.9	53,200 *																			60
65	63.9	255.6	51,200 *	70.2	259.6	55,600 *																65
70	61.2	253.0	49,300 *	67.6	257.7	54,600 *																70
75	58.4	250.1	47,400 *	65.0	255.5	52,600 *																75
80	55.6	246.9	45,600 *	62.3	253.0	50,800 *	66.2	255.3	53,300 *													80
85	52.6	243.3	43,900 *	59.6	250.3	48,800 *	63.5	253.0	51,600 *													85
90	49.5	239.2	42,300 *	56.8	247.2	47,000 *	60.8	250.3	49,700 *													90
95	46.3	234.7	40,800 *	53.9	243.7	45,300 *	58.1	247.4	47,900 *													95
100	42.9	229.6	39,300 *	50.9	239.9	43,600 *	55.2	244.1	46,200 *	61.9	248.5	46,500										100
105	39.3	223.9	38,000 *	47.7	235.6	42,100 *	52.2	240.4	44,600 *	59.1	245.7	43,700										105
110	35.4	217.3	36,800 *	44.4	230.7	40,600 *	49.2	236.3	43,000 *	56.3	242.5	41,100										110
115	31.0	209.7	35,700 *	40.9	225.3	39,200 *	45.9	231.8	41,400 *	53.4	239.0	38,700										115
120	26.0	200.5	34,400 *	37.1	219.1	37,900 *	42.5	226.6	40,000 *	50.3	235.1	36,600	57.2	239.7	32,700							120
125	19.9	188.7	32,700 *	32.9	212.0	36,700 *	38.8	220.8	38,400	47.2	230.7	34,700	54.3	236.3	30,900							125
130	10.8	170.4	28,900 *	28.3	203.6	35,600 *	34.9	214.1	36,500	43.8	225.8	32,900	51.3	232.5	29,300							130
135				22.7	193.1	34,700 *	30.4	206.3	34,700	40.2	220.2	31,200	48.2	228.3	27,800							135
140				15.4	178.6	33,300 *	25.3	196.9	33,000	36.4	213.9	29,700	44.9	223.6	26,400	52.1	228.6	23,200				140
145							19.0	184.6	31,400	32.2	206.6	28,300	41.4	218.2	25,100	49.0	224.5	22,100				145
150							9.1	164.6	29,900	27.3	197.8	26,900	37.7	212.2	23,900	45.7	219.9	21,000				150
155										21.6	186.8	25,700	33.6	205.2	22,800	42.3	214.7	20,000				155
160										13.7	171.1	24,500	29.0	196.9	21,700	38.6	208.9	19,000	46.2	214.8	16,400	160
170													16.6	173.1	19,800	30.1	194.2	17,300	39.2	204.0	14,800	170
180																18.5	172.1	15,700	30.8	189.7	13,400	180
190																			19.6	168.4	12,100	190

# Manitowoc Cranes, Inc.

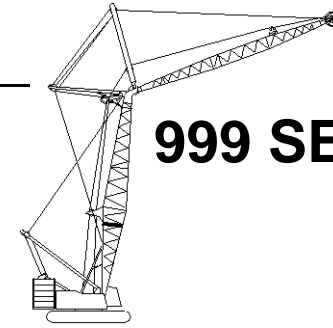
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



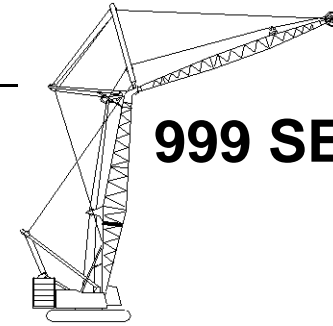
## 999 SERIES 3

### 140 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.4	273.7	52,800 *b																			45
50	73.1	272.3	51,800 *																			50
55	70.7	270.6	50,900 *																			55
60	68.4	268.8	49,200 *																			60
65	66.0	266.7	47,400 *																			65
70	63.6	264.3	45,600 *	69.4	268.5	50,300 *																70
75	61.1	261.7	43,900 *	67.0	266.5	48,600 *																75
80	58.5	258.8	42,300 *	64.6	264.2	46,900 *																80
85	55.9	255.6	40,700 *	62.2	261.7	45,200 *	65.7	264.0	47,500 *													85
90	53.2	252.0	39,200 *	59.6	258.9	43,600 *	63.3	261.7	45,900 *													90
95	50.4	248.1	37,800 *	57.1	255.8	42,000 *	60.8	259.0	44,300 *													95
100	47.5	243.7	36,400 *	54.4	252.4	40,500 *	58.2	256.1	42,800 *													100
105	44.4	238.9	35,100 *	51.6	248.7	39,000 *	55.6	252.8	41,300 *	61.7	257.2	43,300										105
110	41.2	233.5	33,800 *	48.8	244.5	37,600 *	52.9	249.2	39,800 *	59.2	254.4	40,700										110
115	37.7	227.4	32,700 *	45.8	239.9	36,200 *	50.1	245.2	38,400 *	56.6	251.2	38,400										115
120	33.9	220.5	31,600 *	42.6	234.7	34,900 *	47.1	240.8	37,000 *	53.9	247.8	36,300										120
125	29.8	212.4	30,600 *	39.2	229.0	33,700 *	44.0	235.9	35,700 *	51.1	243.9	34,300	57.4	248.4	30,600							125
130	25.0	202.7	29,700 *	35.6	222.4	32,600 *	40.8	230.4	34,500 *	48.2	239.7	32,500	54.8	245.0	28,900							130
135	19.1	190.4	28,700 *	31.6	214.9	31,500 *	37.3	224.2	33,300 *	45.2	235.0	30,900	52.0	241.3	27,400							135
140	10.4	171.4	26,200 *	27.1	206.0	30,500 *	33.4	217.2	32,200 *	42.0	229.7	29,400	49.2	237.2	26,100							140
145				21.8	195.0	29,700 *	29.2	209.0	31,200 *	38.6	223.8	28,000	46.2	232.7	24,800	52.7	237.4	21,700				145
150				14.8	179.9	29,000 *	24.3	199.1	29,700	34.9	217.1	26,600	43.0	227.6	23,600	49.9	233.4	20,600				150
155							18.2	186.2	28,400	30.9	209.4	25,400	39.7	221.9	22,500	46.9	229.0	19,600				155
160							8.8	165.4	27,100	26.3	200.2	24,300	36.1	215.5	21,400	43.8	224.0	18,700				160
170										13.1	172.3	22,100	27.8	199.5	19,500	37.0	212.3	16,900	44.3	219.0	14,400	170
180													15.9	174.6	17,800	28.9	196.9	15,400	37.6	207.4	13,100	180
190																17.8	173.7	14,000	29.6	192.4	11,800	190
200																		18.8	170.1	10,700		200

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



## 999 SERIES 3

# Liftcrane Luffing Jib Capacities

New York City Code

Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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

### 140 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	74.3	282.7	48,300 *																			50
55	72.2	281.2	47,100 *																			55
60	70.0	279.5	45,300 *																			60
65	67.8	277.5	43,600 *																			65
70	65.6	275.4	42,000 *	70.9	279.1	46,200 *																70
75	63.3	273.0	40,300 *	68.8	277.2	44,600 *																75
80	61.0	270.4	38,800 *	66.6	275.2	43,000 *																80
85	58.6	267.4	37,200 *	64.3	272.9	41,500 *	67.5	274.9	43,500 *													85
90	56.2	264.3	35,800 *	62.0	270.4	39,900 *	65.3	272.8	42,000 *													90
95	53.7	260.7	34,400 *	59.7	267.6	38,400 *	63.0	270.3	40,600 *													95
100	51.1	256.9	33,000 *	57.3	264.5	36,900 *	60.7	267.7	39,100 *													100
105	48.4	252.7	31,700 *	54.8	261.1	35,500 *	58.3	264.7	37,600 *													105
110	45.7	248.0	30,500 *	52.3	257.5	34,100 *	55.9	261.5	36,200 *	61.6	265.9	39,100 *										110
115	42.7	242.9	29,300 *	49.6	253.4	32,800 *	53.4	257.9	34,900 *	59.2	263.0	37,800 *										115
120	39.6	237.2	28,200 *	46.9	248.9	31,500 *	50.8	254.1	33,500 *	56.8	259.9	35,800 *										120
125	36.3	230.7	27,200 *	44.0	244.0	30,300 *	48.1	249.8	32,200 *	54.4	256.5	33,800 *										125
130	32.7	223.5	26,200 *	41.0	238.5	29,100 *	45.3	245.1	31,000 *	51.8	252.7	32,100 *	57.6	257.1	28,400 *							130
135	28.6	215.0	25,200 *	37.7	232.5	28,000 *	42.3	239.9	29,800 *	49.1	248.6	30,400 *	55.1	253.7	26,900 *							135
140	24.0	204.9	24,400 *	34.3	225.6	27,000 *	39.2	234.1	28,700 *	46.4	244.1	28,900 *	52.6	250.1	25,500 *							140
145	18.4	192.0	23,700 *	30.4	217.7	26,000 *	35.9	227.6	27,600 *	43.5	239.0	27,500 *	50.0	246.1	24,300 *							145
150	10.0	172.3	23,100 *	26.1	208.4	25,100 *	32.2	220.1	26,600 *	40.4	233.5	26,200 *	47.3	241.7	23,100 *							150
155				21.0	196.9	24,300 *	28.1	211.5	25,700 *	37.1	227.3	25,000 *	44.4	236.8	22,000 *	50.6	242.2	19,100 *				155
160				14.2	181.2	23,600 *	23.4	201.2	24,800 *	33.6	220.2	23,800 *	41.4	231.5	20,900 *	47.9	237.9	18,100 *				160
170							8.5	166.2	23,500 *	25.3	202.5	21,700 *	34.8	218.7	19,100 *	42.2	228.0	16,400 *				170
180										12.7	173.4	19,800 *	26.8	201.9	17,400 *	35.6	215.6	14,900 *	42.6	223.0	12,500 *	180
190													15.4	175.9	15,800 *	27.8	199.4	13,500 *	36.1	210.8	11,300 *	190
200																17.1	175.2	12,300 *	28.5	195.0	10,200 *	200
210																		9,200 *	18.1	171.7		210

# Manitowoc Cranes, Inc.

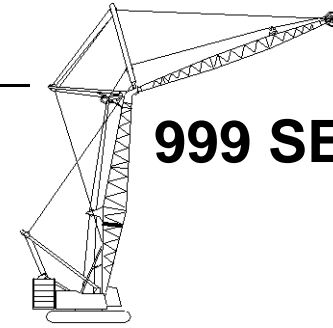
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	75.4	293.0	45,000 *																			50
55	73.4	291.7	43,500 *																			55
60	71.4	290.1	42,000 *																			60
65	69.4	288.3	40,400 *																			65
70	67.3	286.3	38,800 *																			70
75	65.2	284.1	37,300 *	70.2	287.9	41,200 *																75
80	63.1	281.7	35,800 *	68.2	286.0	39,700 *																80
85	60.9	279.0	34,300 *	66.1	283.9	38,200 *																85
90	58.7	276.1	32,900 *	64.0	281.6	36,800 *	67.1	283.7	38,600 *													90
95	56.5	272.9	31,600 *	61.9	279.0	35,300 *	65.0	281.5	37,300 *													95
100	54.1	269.5	30,300 *	59.7	276.2	33,900 *	62.8	279.0	35,900 *													100
105	51.7	265.7	29,000 *	57.5	273.2	32,500 *	60.7	276.3	34,600 *													105
110	49.3	261.6	27,800 *	55.2	269.9	31,200 *	58.5	273.4	33,200 *													110
115	46.7	257.1	26,600 *	52.8	266.2	29,900 *	56.2	270.2	31,900 *	61.5	274.5	34,600 *										115
120	44.0	252.1	25,500 *	50.4	262.3	28,700 *	53.9	266.7	30,600 *	59.3	271.7	33,400 *										120
125	41.2	246.7	24,500 *	47.8	257.9	27,500 *	51.5	262.9	29,400 *	57.0	268.6	32,200 *										125
130	38.2	240.7	23,500 *	45.2	253.2	26,400 *	49.0	258.7	28,200 *	54.7	265.2	31,000 *										130
135	35.0	234.0	22,500 *	42.4	248.0	25,300 *	46.4	254.1	27,000 *	52.4	261.5	29,800 *	57.8	265.7	26,800							135
140	31.5	226.3	21,600 *	39.5	242.2	24,200 *	43.7	249.2	25,900 *	49.9	257.5	28,700 *	55.5	262.4	25,400							140
145	27.7	217.5	20,800 *	36.4	235.8	23,300 *	40.8	243.7	24,800 *	47.4	253.1	27,400	53.1	258.9	24,100							145
150	23.2	207.0	20,000 *	33.1	228.6	22,300 *	37.8	237.6	23,800 *	44.7	248.3	26,100	50.7	254.9	22,900							150
155	17.7	193.6	19,400 *	29.4	220.3	21,400 *	34.6	230.7	22,900 *	41.9	243.0	24,900	48.2	250.7	21,800							155
160	9.7	173.1	18,800 *	25.2	210.7	20,600 *	31.1	223.0	22,000 *	39.0	237.1	23,700	45.6	246.0	20,800	51.3	251.1	18,000				160
170				13.7	182.4	19,300 *	22.6	203.2	20,300 *	32.4	223.2	21,700	39.9	235.2	18,900	46.2	242.3	16,300				170
180							8.2	166.9	19,100 *	24.4	204.7	19,800	33.6	221.8	17,300	40.7	231.7	14,800	46.6	237.2	12,400	180
190										12.2	174.5	18,100	25.8	204.2	15,800	34.4	218.7	13,500	41.1	226.8	11,200	190
200													14.8	177.3	14,400	26.9	201.8	12,200	34.9	214.0	10,100	200
210																16.5	176.7	11,100	27.5	197.5	9,100	210
220																			17.5	173.3	8,200	220



# Liftcrane Luffing Jib Capacities

New York City Code

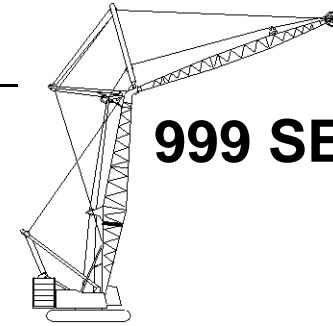
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	74.5	302.1	40,100 *																			55
60	72.6	300.6	38,500 *																			60
65	70.7	298.9	37,000 *																			65
70	68.8	297.1	35,500 *																			70
75	66.9	295.0	34,100 *																			75
80	64.9	292.8	32,600 *	69.6	296.7	36,200 *																80
85	62.9	290.4	31,200 *	67.7	294.8	34,900 *																85
90	60.9	287.7	29,900 *	65.8	292.6	33,500 *																90
95	58.8	284.8	28,600 *	63.8	290.3	32,100 *	66.6	292.4	33,900 *													95
100	56.7	281.6	27,300 *	61.8	287.7	30,800 *	64.7	290.2	32,600 *													100
105	54.5	278.2	26,100 *	59.7	284.9	29,400 *	62.7	287.7	31,300 *													105
110	52.3	274.5	24,900 *	57.6	281.9	28,200 *	60.6	285.0	30,000 *													110
115	50.0	270.5	23,800 *	55.5	278.6	26,900 *	58.6	282.1	28,800 *													115
120	47.6	266.1	22,700 *	53.3	275.0	25,700 *	56.4	278.9	27,500 *	61.4	283.2	30,100 *										120
125	45.1	261.3	21,600 *	51.0	271.1	24,500 *	54.3	275.4	26,300 *	59.3	280.3	29,000 *										125
130	42.6	256.1	20,600 *	48.7	266.9	23,400 *	52.0	271.7	25,200 *	57.2	277.3	27,800 *										130
135	39.8	250.4	19,700 *	46.2	262.3	22,400 *	49.7	267.6	24,000 *	55.1	273.9	26,700 *										135
140	37.0	244.1	18,800 *	43.7	257.3	21,300 *	47.3	263.2	22,900 *	52.9	270.3	25,600 *	57.9	274.4	24,900							140
145	33.9	237.1	17,900 *	41.0	251.8	20,400 *	44.8	258.4	21,900 *	50.6	266.3	24,500 *	55.8	271.1	23,600							145
150	30.5	229.1	17,100 *	38.2	245.7	19,400 *	42.2	253.1	20,900 *	48.2	262.0	23,400 *	53.6	267.6	22,400							150
155	26.8	219.9	16,400 *	35.2	239.0	18,500 *	39.5	247.3	19,900 *	45.8	257.4	22,400 *	51.3	263.8	21,300							155
160	22.5	209.0	15,700 *	32.0	231.5	17,700 *	36.6	240.9	19,000 *	43.2	252.3	21,400 *	49.0	259.6	20,300							160
170	9.4	174.0	14,500 *	24.4	212.9	16,200 *	30.1	225.7	17,400 *	37.7	240.6	19,500 *	44.0	250.1	18,500	49.6	255.8	15,800				170
180				13.3	183.6	14,900 *	21.9	205.2	15,900 *	31.4	226.0	17,800 *	38.6	238.7	16,800	44.7	246.5	14,300				180
190							7.9	167.6	14,700 *	23.6	206.8	16,300 *	32.5	224.7	15,300	39.3	235.4	13,000	45.0	241.4	10,700	190
200										11.8	175.6	15,000 *	25.0	206.5	14,000	33.3	221.7	11,800	39.7	230.5	9,600	200
210													14.4	178.5	12,800	26.0	204.2	10,700	33.7	217.1	8,600	210
220																16.0	178.1	9,700	26.6	199.9	7,700	220
230																			16.9	174.8	6,900	230



# Manitowoc Cranes, Inc.

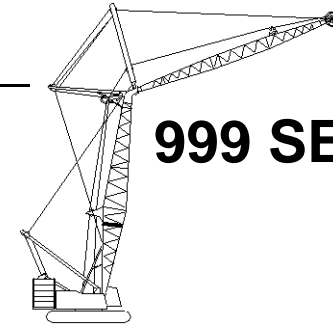
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 140 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	75.4	312.4	37,000 *																			55
60	73.6	311.0	35,600 *																			60
65	71.9	309.5	34,200 *																			65
70	70.1	307.8	32,800 *																			70
75	68.3	305.9	31,400 *																			75
80	66.5	303.8	30,000 *	70.9	307.4	33,400 *																80
85	64.6	301.5	28,700 *	69.1	305.5	32,000 *																85
90	62.7	299.0	27,400 *	67.3	303.5	30,700 *																90
95	60.8	296.3	26,100 *	65.4	301.4	29,500 *																95
100	58.9	293.4	24,900 *	63.6	299.0	28,200 *	66.2	301.2	29,900 *													100
105	56.9	290.3	23,800 *	61.7	296.4	26,900 *	64.4	298.9	28,700 *													105
110	54.9	286.9	22,600 *	59.7	293.6	25,700 *	62.5	296.4	27,500 *													110
115	52.8	283.3	21,500 *	57.8	290.5	24,500 *	60.6	293.6	26,300 *													115
120	50.6	279.3	20,500 *	55.7	287.3	23,400 *	58.6	290.7	25,100 *													120
125	48.4	275.0	19,500 *	53.7	283.7	22,300 *	56.6	287.5	23,900 *	61.3	291.9	26,400 *										125
130	46.1	270.4	18,500 *	51.6	279.9	21,200 *	54.6	284.1	22,800 *	59.4	289.0	25,300 *										130
135	43.7	265.4	17,600 *	49.4	275.8	20,200 *	52.5	280.4	21,700 *	57.4	285.9	24,200 *										135
140	41.2	259.9	16,700 *	47.1	271.3	19,200 *	50.4	276.4	20,700 *	55.4	282.6	23,200 *										140
145	38.6	254.0	15,900 *	44.8	266.5	18,200 *	48.1	272.1	19,700 *	53.3	279.0	22,100 *	58.0	283.1	23,200							145
150	35.8	247.4	15,100 *	42.3	261.2	17,300 *	45.8	267.5	18,700 *	51.2	275.1	21,100 *	56.0	279.8	22,100							150
155	32.8	240.0	14,300 *	39.7	255.5	16,400 *	43.4	262.4	17,800 *	49.0	271.0	20,100 *	54.0	276.3	21,000							155
160	29.6	231.8	13,600 *	37.0	249.1	15,600 *	40.9	256.9	16,900 *	46.7	266.4	19,100 *	51.9	272.6	20,000							160
170	21.8	211.0	12,100 *	31.0	234.3	14,100 *	35.5	244.2	15,300 *	41.9	256.2	17,300 *	47.4	264.1	18,100	52.4	268.6	15,400				170
180	9.1	174.8	10,600 *	23.7	215.0	12,500 *	29.1	228.4	13,800 *	36.5	243.9	15,600 *	42.7	254.1	16,500	48.0	260.3	13,900				180
190				12.9	184.7	10,900 *	21.2	207.1	12,100 *	30.4	228.8	14,100 *	37.4	242.2	15,000	43.3	250.5	12,600				190
200							7.7	168.3	10,600 *	22.9	208.9	12,500 *	31.5	227.6	13,700	38.1	238.9	11,400	43.6	245.5	9,200	200
210										11.5	176.6	10,900 *	24.2	208.7	12,500	32.2	224.7	10,300	38.5	234.0	8,300	210
220													13.9	179.8	11,100 *	25.2	206.4	9,400	32.7	220.0	7,400	220
230																15.5	179.5	8,400	25.8	202.2	6,600	230
240																			16.4	176.3	5,800	240



# Liftcrane Luffing Jib Capacities

New York City Code

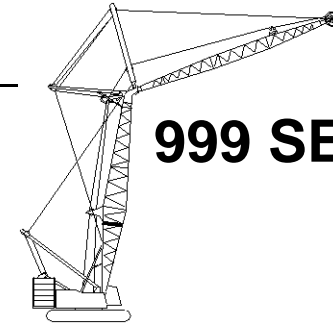
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	62.3	219.9	94,000 *b																			45
50	57.6	217.0	90,100 *b																			50
55	52.6	213.5	86,800 *b																			55
60	47.2	209.3	83,800 *	60.5	217.6	94,400 *b																60
65	41.4	204.2	81,100 *	55.7	214.5	90,800 *b																65
70	34.7	197.8	74,000 *	50.5	210.7	87,600 *b	58.3	215.0	91,200 b													70
75	26.7	189.4	66,300 *	45.0	206.2	82,000 *	53.4	211.6	83,800 b													75
80	15.3	176.4	52,500 *	38.9	200.6	76,100 *	48.1	207.5	77,400	60.9	213.6	72,500 b										80
85				31.8	193.6	70,900 *	42.3	202.6	71,900	56.1	210.5	67,300 b										85
90				22.9	183.9	65,200 *	35.9	196.4	67,100	51.1	206.8	62,800 b										90
95				6.9	165.1	48,600 *	28.1	188.4	62,800	45.6	202.4	58,800										95
100							17.6	176.5	58,900	39.5	196.9	55,200	53.6	204.6	51,500 b							100
105										32.6	190.0	52,000	48.3	200.5	48,500							105
110										23.9	180.7	49,100	42.5	195.6	45,800							110
115										9.7	164.1	46,300	36.1	189.5	43,300	50.5	197.0	40,200 b				115
120													28.4	181.5	41,100	44.9	192.5	38,100				120
125													18.0	169.9	39,000	38.8	186.9	36,200				125
130																31.7	179.8	34,500	46.7	187.8	31,900	130
135																22.7	170.1	32,800	40.7	182.5	30,400	135
140																6.4	150.8	31,200	34.0	176.0	29,000	140
145																						145
150																						150
																						145
																						150

# Manitowoc Cranes, Inc.

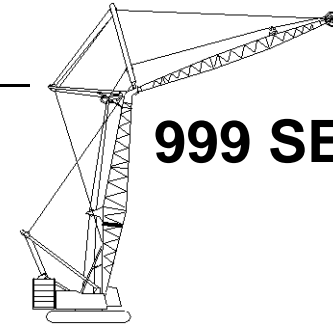
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	66.0	231.0	87,300 *b																			45
50	62.0	228.6	83,700 *b																			50
55	57.9	225.7	80,400 *b																			55
60	53.6	222.3	77,300 *	64.5	228.9	87,500 *b																60
65	49.0	218.2	74,400 *	60.4	226.3	84,200 *b	66.6	228.8	89,400 *b													65
70	44.0	213.5	71,700 *	56.2	223.2	80,800 *b	62.7	226.5	86,300 *b													70
75	38.6	207.8	68,100 *	51.8	219.5	77,700 *	58.6	223.6	83,100 *b													75
80	32.4	200.8	62,500 *	47.1	215.3	74,900 *	54.3	220.3	77,100													80
85	25.0	191.7	57,500 *	42.0	210.2	70,500 *	49.7	216.4	71,600	60.8	222.2	66,900 b										85
90	14.3	177.7	46,100 *	36.3	204.0	65,800 *	44.8	211.8	66,800	56.6	219.2	62,400 b										90
95				29.7	196.3	60,500 *	39.5	206.3	62,500	52.2	215.6	58,400										95
100				21.4	185.9	55,800 *	33.5	199.5	58,700	47.5	211.4	54,900										100
105				6.5	165.7	43,100 *	26.3	190.8	55,300	42.5	206.4	51,700	54.4	213.3	48,100							105
110							16.4	178.0	52,200	36.9	200.4	48,800	49.9	209.4	45,400							110
115										30.4	192.9	46,200	45.0	204.8	43,000							115
120										22.3	182.8	43,800	39.7	199.3	40,700	51.7	205.9	37,700				120
125										9.1	165.0	41,500	33.7	192.6	38,700	47.0	201.6	35,800				125
130													26.5	184.0	36,800	41.9	196.5	34,100				130
135													16.8	171.4	35,100	36.2	190.3	32,500				135
140																29.6	182.6	31,000	43.5	191.9	28,600	140
145																21.2	172.0	29,600	38.0	186.1	27,300	145
150																6.0	151.4	28,200	31.7	178.9	26,100	150
155																			24.1	169.5	25,000	155
160																			12.7	154.4	23,900	160



# Liftcrane Luffing Jib Capacities

New York City Code

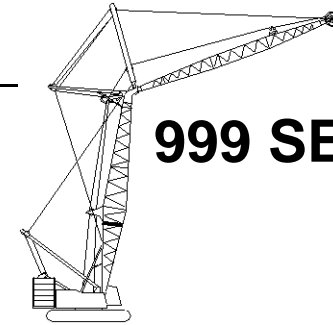
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	68.8	241.8	79,000 *b																			45
50	65.4	239.7	75,800 *b																			50
55	61.8	237.2	72,800 *b																			55
60	58.1	234.3	70,000 *	67.5	239.8	79,000 *b																60
65	54.3	231.0	67,400 *	64.0	237.6	76,100 *b																65
70	50.3	227.1	65,100 *	60.4	234.9	73,200 *	65.9	237.6	77,700 *b													70
75	46.0	222.6	62,900 *	56.6	231.9	70,700 *	62.4	235.1	75,100 *b													75
80	41.4	217.4	60,900 *	52.7	228.3	68,200 *	58.7	232.3	72,500 *													80
85	36.3	211.2	57,500 *	48.6	224.2	65,900 *	54.9	229.0	70,100 *													85
90	30.5	203.6	53,300 *	44.2	219.5	63,700 *	50.9	225.3	66,600	60.7	230.9	62,100 b										90
95	23.5	193.8	49,500 *	39.5	213.9	60,400 *	46.7	220.9	62,400	57.0	227.9	58,200										95
100	13.5	178.9	41,000 *	34.1	207.2	55,800 *	42.1	215.8	58,600	53.1	224.4	54,600										100
105				28.0	198.9	51,800 *	37.1	209.7	55,200	49.0	220.3	51,500										105
110				20.2	187.7	48,200 *	31.5	202.4	52,100	44.7	215.6	48,600	55.0	222.0	45,100							110
115				6.1	166.3	38,600 *	24.7	193.1	49,300	39.9	210.2	46,000	51.0	218.2	42,700							115
120							15.5	179.4	46,800 *	34.7	203.6	43,600	46.8	213.9	40,500							120
125										28.6	195.5	41,500	42.3	208.8	38,500	52.7	214.6	35,600				125
130										21.0	184.7	39,500	37.3	202.8	36,600	48.6	210.5	33,800				130
135										8.5	165.7	37,500	31.7	195.5	34,900	44.2	205.8	32,300				135
140													25.0	186.3	33,300	39.4	200.2	30,800				140
145													15.8	172.8	31,800	34.1	193.5	29,400	45.5	201.1	27,000	145
150																27.9	185.1	28,100	40.9	195.7	25,900	150
155																20.0	173.9	26,900	35.7	189.4	24,800	155
160																5.6	151.9	25,700	29.9	181.7	23,700	160
170																			11.9	155.5	21,800	170

# Manitowoc Cranes, Inc.

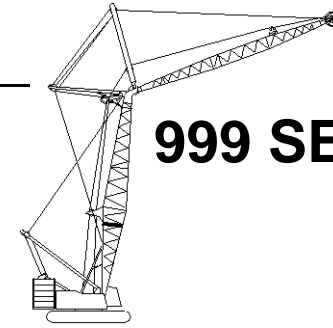
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	71.0	252.5	73,800 *b																			45
50	68.0	250.6	70,700 *b																			50
55	64.8	248.4	67,800 *																			55
60	61.6	245.9	65,100 *	69.8	250.5	73,400 *b																60
65	58.3	243.0	62,500 *	66.7	248.6	70,600 *b																65
70	54.9	239.7	60,100 *	63.6	246.2	67,900 *																70
75	51.3	235.9	57,800 *	60.3	243.6	65,400 *	65.3	246.3	69,400 *b													75
80	47.5	231.7	55,700 *	57.0	240.5	62,900 *	62.1	243.8	66,900 *													80
85	43.5	226.8	53,700 *	53.5	237.1	60,500 *	58.8	241.0	64,500 *													85
90	39.2	221.1	51,900 *	49.8	233.1	58,300 *	55.4	237.7	62,200 *													90
95	34.4	214.4	48,600 *	46.0	228.6	56,300 *	51.9	234.1	60,000 *	60.7	239.5	57,700										95
100	28.9	206.3	45,400 *	41.9	223.4	54,300 *	48.1	229.9	57,900 *	57.3	236.5	54,200										100
105	22.3	195.9	42,700 *	37.4	217.4	51,500 *	44.2	225.1	54,900	53.8	233.1	51,100										105
110	12.8	180.0	36,500 *	32.3	210.2	47,900 *	39.9	219.5	51,800	50.2	229.2	48,200										110
115				26.5	201.3	44,800 *	35.2	213.0	49,100	46.4	224.8	45,700	55.5	230.7	42,300							115
120				19.1	189.4	42,000 *	29.8	205.2	46,500 *	42.3	219.6	43,300	52.0	227.0	40,100							120
125				5.8	166.8	34,600 *	23.5	195.2	43,500 *	37.8	213.7	41,200	48.3	222.9	38,100							125
130							14.7	180.7	40,800 *	32.9	206.6	39,200	44.3	218.1	36,300							130
135										27.1	198.0	37,300	40.0	212.6	34,600	49.8	219.4	31,800				135
140										19.9	186.5	35,600	35.3	206.1	33,000	45.9	214.9	30,400				140
145										8.1	166.5	34,000	30.0	198.3	31,500	41.8	209.7	29,000				145
150													23.7	188.4	30,200	37.3	203.6	27,800	47.1	210.1	25,400	150
155													15.0	174.2	28,900	32.3	196.4	26,600	43.1	205.1	24,300	155
160																26.4	187.5	25,500	38.7	199.4	23,300	160
170																5.3	152.3	23,300	28.3	184.2	21,400	170
180																			11.3	156.5	19,700	180



# Liftcrane Luffing Jib Capacities

New York City Code

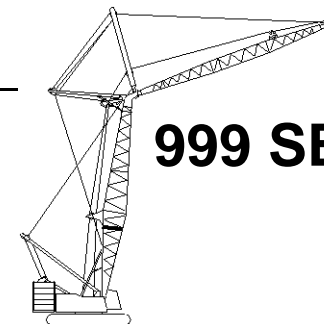
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	72.8	263.0	68,700 *b																			45
50	70.1	261.3	66,300 *b																			50
55	67.3	259.4	64,000 *																			55
60	64.4	257.1	61,900 *																			60
65	61.5	254.6	59,800 *	69.0	259.3	66,200 *b																65
70	58.5	251.7	57,700 *	66.1	257.3	64,200 *																70
75	55.4	248.4	55,600 *	63.3	254.9	62,200 *	67.7	257.2	64,900 *													75
80	52.1	244.7	53,600 *	60.3	252.2	60,200 *	64.9	255.0	63,100 *													80
85	48.8	240.6	51,700 *	57.3	249.2	58,000 *	61.9	252.5	61,300 *													85
90	45.2	235.9	50,000 *	54.1	245.8	55,900 *	58.9	249.6	58,400													90
95	41.4	230.6	47,200 *	50.8	242.0	54,000 *	55.9	246.4	54,500													95
100	37.3	224.5	44,300 *	47.4	237.6	52,200 *	52.6	242.8	51,000	60.6	248.2	45,800										100
105	32.7	217.4	41,600 *	43.7	232.7	50,400 *	49.3	238.8	47,900	57.6	245.2	42,900										105
110	27.6	208.8	39,200 *	39.8	227.1	48,000	45.8	234.2	45,100	54.4	241.8	40,400										110
115	21.3	197.8	37,100 *	35.6	220.6	45,300	42.0	229.0	42,600	51.1	238.0	38,100										115
120	12.2	181.1	33,600 *	30.8	213.0	42,900	38.0	223.1	40,300	47.7	233.8	36,000	56.0	239.4	31,800							120
125				25.3	203.6	40,500 *	33.5	216.1	38,200	44.1	228.9	34,100	52.7	235.8	30,100							125
130				18.2	191.1	38,200 *	28.4	207.8	36,200	40.2	223.4	32,300	49.4	231.8	28,500							130
135				5.5	167.3	31,900 *	22.3	197.2	34,400	36.0	217.0	30,700	45.9	227.2	27,000							135
140							14.0	182.0	32,700	31.3	209.5	29,200	42.1	222.0	25,700	50.8	228.3	22,200				140
145										25.8	200.3	27,800	38.1	216.1	24,400	47.3	223.9	21,100				145
150										19.0	188.2	26,500	33.6	209.2	23,200	43.7	219.0	20,100				150
155										7.7	167.1	25,200	28.6	200.9	22,100	39.8	213.4	19,100				155
160													22.6	190.5	21,100	35.5	206.9	18,200	44.8	214.4	15,300	160
170																25.2	189.8	16,500	36.8	202.8	13,800	170
180																5.1	152.8	14,800	27.0	186.7	12,500	180
190																			10.8	157.5	11,200	190

# Manitowoc Cranes, Inc.

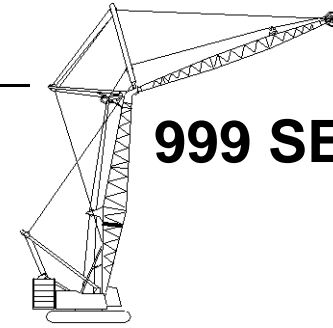
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	74.3	273.4	55,600 *b																			45
50	71.8	271.9	54,500 *b																			50
55	69.2	270.1	53,500 *																			55
60	66.7	268.1	52,600 *																			60
65	64.0	265.8	51,100 *	70.8	270.0	54,900 *b																65
70	61.4	263.2	49,200 *	68.2	268.1	54,200 *																70
75	58.6	260.3	47,400 *	65.6	266.0	52,800 *																75
80	55.8	257.1	45,600 *	63.0	263.6	51,000 *	67.1	265.9	53,500 *													80
85	52.8	253.5	43,900 *	60.3	260.9	49,200 *	64.5	263.7	51,900 *													85
90	49.8	249.5	42,300 *	57.5	257.9	47,400 *	61.8	261.1	50,200 *													90
95	46.6	245.0	40,800 *	54.6	254.5	45,700 *	59.0	258.3	48,500 *													95
100	43.2	240.0	39,400 *	51.6	250.8	44,000 *	56.2	255.1	46,700 *													100
105	39.6	234.3	38,100 *	48.5	246.6	42,400 *	53.3	251.6	45,100 *	60.5	256.9	42,400										105
110	35.6	227.8	36,900 *	45.2	241.9	40,900 *	50.2	247.7	43,500 *	57.8	253.9	39,900										110
115	31.3	220.3	35,500 *	41.8	236.6	39,500 *	47.1	243.3	42,000 *	54.9	250.6	37,600										115
120	26.4	211.2	33,600 *	38.1	230.7	38,200 *	43.7	238.3	39,900	51.9	246.8	35,500										120
125	20.3	199.6	32,000 *	34.0	223.8	37,000 *	40.1	232.8	37,800	48.8	242.7	33,600	56.3	248.1	29,500							125
130	11.7	182.2	29,600 *	29.5	215.7	35,900 *	36.3	226.4	35,900	45.6	238.1	31,900	53.4	244.6	27,900							130
135				24.2	205.8	35,000 *	32.0	219.0	34,100	42.1	232.9	30,300	50.3	240.6	26,500							135
140				17.4	192.6	34,100 *	27.2	210.2	32,400	38.4	227.0	28,800	47.2	236.3	25,200							140
145				5.3	167.8	28,300 *	21.4	199.2	30,900	34.4	220.2	27,400	43.8	231.3	23,900	51.6	237.1	20,500				145
150							13.4	183.2	29,400	29.9	212.2	26,100	40.3	225.8	22,800	48.5	232.9	19,500				150
155										24.7	202.6	24,900	36.4	219.5	21,700	45.2	228.2	18,500				155
160										18.2	189.8	23,700	32.2	212.1	20,700	41.7	222.9	17,600				160
170													21.6	192.4	18,800	33.9	210.0	16,000	42.8	218.4	13,300	170
180																24.1	192.0	14,500	35.2	206.0	12,000	180
190																4.9	153.2	13,100	25.8	189.0	10,800	190
200																		10.3	158.4	9,600		200



# Liftcrane Luffing Jib Capacities

New York City Code

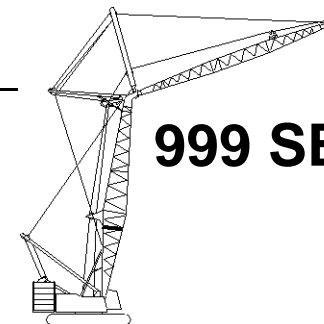
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	75.5	283.8	52,000 *b																			45
50	73.2	282.4	51,100 *b																			50
55	70.9	280.8	50,200 *																			55
60	68.6	278.9	49,000 *																			60
65	66.2	276.8	47,200 *																			65
70	63.7	274.5	45,500 *	70.0	278.8	50,300 *																70
75	61.3	271.9	43,800 *	67.6	276.9	48,700 *																75
80	58.7	269.0	42,200 *	65.2	274.7	47,100 *																80
85	56.1	265.8	40,700 *	62.8	272.3	45,400 *	66.5	274.7	47,700 *													85
90	53.4	262.3	39,200 *	60.3	269.6	43,800 *	64.1	272.4	46,200 *													90
95	50.6	258.4	37,800 *	57.7	266.5	42,300 *	61.6	269.8	44,700 *													95
100	47.7	254.0	36,500 *	55.0	263.2	40,800 *	59.1	267.0	43,200 *													100
105	44.6	249.2	35,200 *	52.3	259.5	39,300 *	56.5	263.8	41,700 *	63.0	268.2	42,000										105
110	41.4	243.9	33,900 *	49.5	255.5	37,900 *	53.8	260.3	40,300 *	60.5	265.5	39,500										110
115	37.9	237.8	32,800 *	46.5	251.0	36,600 *	51.0	256.5	38,900 *	57.9	262.6	37,200										115
120	34.2	231.0	31,700 *	43.4	246.0	35,300 *	48.1	252.2	37,500 *	55.3	259.3	35,200										120
125	30.1	223.0	30,700 *	40.1	240.4	34,000 *	45.1	247.5	36,200 *	52.6	255.6	33,300										125
130	25.3	213.5	29,500 *	36.5	234.0	32,900 *	41.9	242.2	34,900 *	49.7	251.6	31,500	56.6	256.8	27,600							130
135	19.5	201.4	28,100 *	32.6	226.8	31,800 *	38.5	236.3	33,800 *	46.8	247.1	29,900	53.9	253.3	26,100							135
140	11.2	183.2	26,900 *	28.3	218.3	30,800 *	34.8	229.6	32,200	43.7	242.2	28,400	51.1	249.5	24,800							140
145				23.2	207.9	29,900 *	30.7	221.8	30,600	40.4	236.6	27,100	48.2	245.2	23,600							145
150				16.7	194.1	29,200 *	26.1	212.6	29,200	36.9	230.4	25,800	45.2	240.5	22,400	52.3	245.9	19,100				150
155				5.1	168.2	25,800 *	20.5	201.0	27,900	33.0	223.2	24,600	42.0	235.3	21,300	49.4	241.8	18,200				155
160							12.9	184.3	26,600	28.7	214.9	23,500	38.6	229.4	20,300	46.5	237.3	17,300				160
170										17.5	191.4	21,400	30.9	215.0	18,500	40.0	226.6	15,600	47.4	232.5	12,900	170
180													20.7	194.3	16,800	32.6	213.0	14,200	41.0	222.2	11,600	180
190																23.1	194.1	12,900	33.8	209.1	10,500	190
200																4.7	153.7	11,600	24.8	191.3	9,400	200
210																			9.9	159.3	8,400	210



# Manitowoc Cranes, Inc.

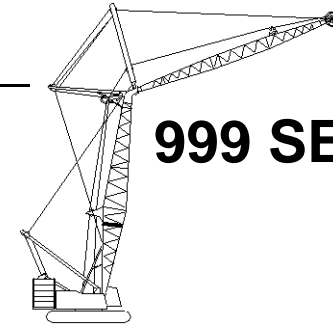
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	74.5	292.8	47,600 *																			50
55	72.3	291.3	46,800 *																			55
60	70.2	289.6	45,100 *																			60
65	68.0	287.7	43,500 *																			65
70	65.7	285.5	41,900 *																			70
75	63.5	283.2	40,300 *	69.3	287.6	44,700 *																75
80	61.2	280.5	38,700 *	67.1	285.6	43,200 *																80
85	58.8	277.7	37,300 *	64.9	283.4	41,700 *																85
90	56.4	274.5	35,800 *	62.6	280.9	40,200 *	66.1	283.4	42,300 *													90
95	53.9	271.0	34,400 *	60.2	278.2	38,700 *	63.8	281.1	40,900 *													95
100	51.3	267.2	33,100 *	57.9	275.2	37,200 *	61.5	278.5	39,500 *													100
105	48.6	263.0	31,800 *	55.4	271.9	35,800 *	59.2	275.6	38,100 *													105
110	45.8	258.4	30,600 *	52.9	268.3	34,500 *	56.8	272.5	36,700 *	62.8	276.9	39,000										110
115	42.9	253.2	29,400 *	50.3	264.3	33,100 *	54.3	269.1	35,300 *	60.5	274.2	36,700										115
120	39.8	247.6	28,300 *	47.6	260.0	31,900 *	51.7	265.3	34,000 *	58.1	271.2	34,600										120
125	36.5	241.2	27,300 *	44.7	255.2	30,600 *	49.1	261.2	32,700 *	55.6	268.0	32,800										125
130	32.9	234.0	26,300 *	41.7	249.9	29,500 *	46.3	256.6	31,500 *	53.1	264.4	31,000										130
135	28.9	225.6	25,300 *	38.6	243.9	28,400 *	43.4	251.6	30,300 *	50.5	260.4	29,400	56.8	265.5	25,600							135
140	24.4	215.7	24,500 *	35.1	237.3	27,300 *	40.3	246.0	29,200 *	47.8	256.1	28,000	54.4	262.0	24,300							140
145	18.8	203.1	23,800 *	31.4	229.6	26,300 *	37.0	239.7	28,100 *	45.0	251.4	26,600	51.8	258.3	23,000							145
150	10.8	184.2	23,200 *	27.2	220.7	25,400 *	33.5	232.7	27,000 *	42.0	246.1	25,300	49.1	254.1	21,900							150
155				22.3	209.9	24,600 *	29.6	224.5	26,100 *	38.9	240.2	24,100	46.4	249.6	20,800	52.8	254.6	17,600				155
160				16.1	195.6	23,900 *	25.1	214.9	25,200 *	35.5	233.6	23,000	43.5	244.6	19,800	50.2	250.7	16,700				160
170							12.4	185.4	23,800 *	27.7	217.4	21,000	37.2	232.8	18,000	44.7	241.5	15,100				170
180										16.8	192.9	19,200	29.7	217.7	16,400	38.5	230.2	13,700	45.5	236.8	11,000	180
190													20.0	196.1	14,900	31.3	215.9	12,400	39.5	225.9	9,900	190
200																22.3	196.1	11,200	32.5	212.1	8,900	200
210																4.5	154.1	10,000	23.8	193.4	8,000	210
220																			9.6	160.1	7,000	220



# Liftcrane Luffing Jib Capacities

New York City Code

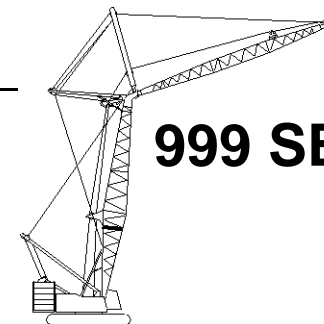
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	75.5	303.1	44,400 *																			50
55	73.5	301.7	43,300 *																			55
60	71.5	300.2	41,700 *																			60
65	69.5	298.4	40,200 *																			65
70	67.5	296.4	38,700 *																			70
75	65.4	294.3	37,200 *	70.7	298.3	41,200 *																75
80	63.2	291.8	35,700 *	68.7	296.4	39,800 *																80
85	61.1	289.2	34,300 *	66.6	294.4	38,400 *																85
90	58.9	286.3	32,900 *	64.5	292.1	37,000 *	67.8	294.3	38,800 *													90
95	56.6	283.2	31,600 *	62.4	289.6	35,600 *	65.7	292.1	37,600 *													95
100	54.3	279.7	30,300 *	60.2	286.9	34,200 *	63.6	289.7	36,300 *													100
105	51.9	276.0	29,100 *	58.0	283.9	32,800 *	61.4	287.1	34,900 *													105
110	49.5	271.9	27,900 *	55.7	280.6	31,500 *	59.2	284.3	33,600 *													110
115	46.9	267.4	26,700 *	53.4	277.1	30,300 *	57.0	281.2	32,300 *	62.6	285.6	35,000 *										115
120	44.2	262.5	25,600 *	51.0	273.2	29,000 *	54.7	277.8	31,100 *	60.4	282.8	33,900 *										120
125	41.4	257.1	24,600 *	48.5	268.9	27,800 *	52.3	274.1	29,800 *	58.2	279.9	32,600										125
130	38.4	251.1	23,600 *	45.8	264.3	26,700 *	49.8	270.0	28,600 *	55.9	276.6	30,900										130
135	35.2	244.4	22,600 *	43.1	259.2	25,600 *	47.3	265.6	27,500 *	53.6	273.1	29,300										135
140	31.8	236.9	21,700 *	40.2	253.6	24,600 *	44.6	260.8	26,300 *	51.2	269.3	27,800	57.1	274.1	24,100							140
145	27.9	228.2	20,900 *	37.2	247.4	23,600 *	41.8	255.5	25,300 *	48.7	265.1	26,500	54.7	270.7	22,900							145
150	23.5	217.8	20,100 *	33.9	240.4	22,600 *	38.9	249.6	24,200 *	46.1	260.5	25,200	52.4	267.1	21,800							150
155	18.2	204.7	19,400 *	30.3	232.4	21,700 *	35.7	243.0	23,300 *	43.4	255.4	24,000	49.9	263.0	20,700							155
160	10.4	185.1	18,900 *	26.3	223.1	20,900 *	32.3	235.6	22,300 *	40.5	249.9	22,900	47.4	258.6	19,700							160
170				15.6	197.0	19,500 *	24.3	217.1	20,700 *	34.2	236.8	20,900	41.9	248.5	17,900	48.4	255.3	15,000				170
180							12.0	186.5	19,300 *	26.7	219.8	19,100	35.9	236.1	16,300	43.1	245.5	13,600				180
190										16.3	194.4	17,500	28.7	220.3	14,900	37.1	233.6	12,300	43.9	240.9	9,800	190
200													19.3	197.8	13,600	30.3	218.6	11,100	38.1	229.4	8,800	200
210																21.5	198.0	10,100	31.4	215.0	7,900	210
220																4.3	154.4	9,000	23.0	195.5	7,000	220
230																			9.2	160.9	6,200	230

# Manitowoc Cranes, Inc.

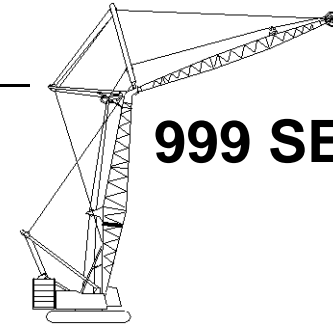
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	74.6	312.1	39,900 *																			55
60	72.7	310.7	38,400 *																			60
65	70.8	309.0	36,900 *																			65
70	68.9	307.2	35,400 *																			70
75	67.0	305.2	34,000 *																			75
80	65.0	303.0	32,600 *	70.1	307.1	36,400 *																80
85	63.0	300.5	31,200 *	68.2	305.2	35,000 *																85
90	61.0	297.9	29,900 *	66.2	303.1	33,700 *																90
95	59.0	295.0	28,600 *	64.3	300.8	32,400 *	67.3	303.0	34,200 *													95
100	56.8	291.8	27,300 *	62.3	298.3	31,000 *	65.3	300.8	32,900 *													100
105	54.7	288.4	26,100 *	60.2	295.5	29,700 *	63.4	298.4	31,700 *													105
110	52.4	284.7	25,000 *	58.1	292.6	28,500 *	61.3	295.8	30,400 *													110
115	50.2	280.7	23,800 *	56.0	289.3	27,200 *	59.3	292.9	29,200 *													115
120	47.8	276.4	22,800 *	53.8	285.8	26,000 *	57.2	289.8	28,000 *	62.4	294.2	30,600 *										120
125	45.3	271.7	21,700 *	51.6	282.0	24,900 *	55.0	286.5	26,800 *	60.4	291.5	29,500 *										125
130	42.7	266.5	20,700 *	49.2	277.8	23,700 *	52.8	282.8	25,600 *	58.3	288.5	28,400 *										130
135	40.0	260.8	19,800 *	46.8	273.4	22,700 *	50.5	278.9	24,500 *	56.2	285.3	27,300 *										135
140	37.2	254.5	18,900 *	44.3	268.4	21,600 *	48.2	274.6	23,400 *	54.0	281.8	26,200 *										140
145	34.1	247.6	18,000 *	41.7	263.1	20,600 *	45.7	269.9	22,300 *	51.8	278.1	25,100 *	57.2	282.8	22,400							145
150	30.7	239.7	17,200 *	38.9	257.2	19,700 *	43.1	264.8	21,300 *	49.5	274.0	24,000 *	55.1	279.5	21,200							150
155	27.0	230.6	16,500 *	36.0	250.7	18,800 *	40.5	259.2	20,300 *	47.1	269.5	23,000 *	52.9	275.8	20,200							155
160	22.8	219.9	15,800 *	32.8	243.4	18,000 *	37.6	253.1	19,400 *	44.6	264.6	22,000 *	50.6	271.9	19,200							160
170	10.1	186.0	14,600 *	25.4	225.4	16,400 *	31.3	238.5	17,700 *	39.2	253.5	20,000 *	45.8	262.9	17,400	51.5	268.3	14,400				170
180				15.1	198.3	15,100 *	23.5	219.2	16,200 *	33.1	239.8	18,300 *	40.5	252.3	15,800	46.8	259.7	13,000				180
190							11.6	187.5	14,900 *	25.8	222.1	16,700 *	34.7	239.3	14,400	41.6	249.4	11,800	47.5	254.9	9,200	190
200										15.7	195.8	15,400 *	27.8	222.8	13,100	35.9	236.9	10,600	42.5	244.8	8,300	200
210													18.7	199.5	11,900	29.3	221.3	9,600	36.8	232.8	7,400	210
220																20.8	199.9	8,700	30.4	217.7	6,500	220
230																4.2	154.8	7,700	22.3	197.5	5,800	230
240																			9.0	161.7	5,000	240



# Liftcrane Luffing Jib Capacities

New York City Code

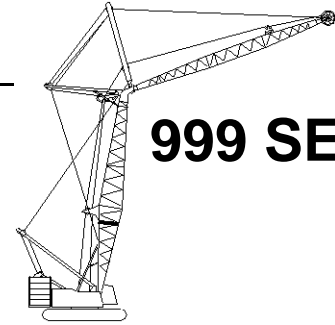
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 150 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	75.5	322.5	36,800 *																			55
60	73.8	321.1	35,400 *																			60
65	72.0	319.6	34,100 *																			65
70	70.2	317.9	32,700 *																			70
75	68.4	316.0	31,300 *																			75
80	66.6	313.9	30,000 *																			80
85	64.8	311.7	28,700 *	69.5	315.9	32,200 *																85
90	62.9	309.2	27,400 *	67.7	314.0	30,900 *																90
95	61.0	306.5	26,200 *	65.9	311.8	29,700 *																95
100	59.0	303.6	25,000 *	64.0	309.5	28,400 *	66.9	311.8	30,200 *													100
105	57.0	300.5	23,800 *	62.1	306.9	27,200 *	65.0	309.5	29,000 *													105
110	55.0	297.1	22,700 *	60.2	304.2	26,000 *	63.2	307.1	27,800 *													110
115	52.9	293.5	21,600 *	58.2	301.2	24,800 *	61.3	304.5	26,600 *													115
120	50.8	289.6	20,600 *	56.2	298.0	23,700 *	59.3	301.6	25,500 *													120
125	48.6	285.3	19,600 *	54.2	294.5	22,600 *	57.3	298.5	24,300 *	62.3	302.9	26,900 *										125
130	46.3	280.7	18,600 *	52.1	290.8	21,500 *	55.3	295.2	23,200 *	60.4	300.2	25,800 *										130
135	43.9	275.8	17,700 *	49.9	286.7	20,400 *	53.2	291.6	22,100 *	58.4	297.2	24,800 *										135
140	41.4	270.3	16,800 *	47.7	282.3	19,400 *	51.1	287.7	21,100 *	56.4	294.0	23,700 *										140
145	38.8	264.4	16,000 *	45.3	277.6	18,500 *	48.9	283.5	20,100 *	54.4	290.6	22,700 *										145
150	36.0	257.8	15,200 *	42.9	272.4	17,600 *	46.6	279.0	19,100 *	52.3	286.8	21,700 *	57.4	291.5	20,800							150
155	33.0	250.6	14,400 *	40.4	266.8	16,700 *	44.3	274.1	18,200 *	50.1	282.8	20,700 *	55.4	288.2	19,800							155
160	29.8	242.4	13,700 *	37.7	260.7	15,900 *	41.8	268.7	17,300 *	47.9	278.5	19,700 *	53.3	284.6	18,800							160
170	22.1	221.8	12,200 *	31.8	246.3	14,300 *	36.5	256.4	15,600 *	43.2	268.7	17,800 *	49.0	276.5	17,000							170
180	9.8	186.9	10,700 *	24.7	227.6	12,800 *	30.3	241.2	14,100 *	38.0	257.0	16,100 *	44.3	267.1	15,500	49.9	273.0	12,700				180
190				14.6	199.6	11,200 *	22.8	221.2	12,500 *	32.1	242.7	14,600 *	39.3	255.9	14,100	45.3	263.9	11,400				190
200							11.2	188.5	10,900 *	25.1	224.4	13,000 *	33.6	242.4	12,800	40.3	253.1	10,300	46.0	259.2	7,900	200
210										15.3	197.1	11,300 *	26.9	225.2	11,700	34.8	240.1	9,300	41.1	248.7	7,000	210
220													18.1	201.1	10,600	28.4	223.9	8,300	35.7	236.1	6,200	220
230																20.2	201.7	7,500	29.4	220.4	5,400	230
240																4.1	155.2	6,600	21.6	199.5	4,700	240
250																			8.7	162.5	4,000	250

# Manitowoc Cranes, Inc.

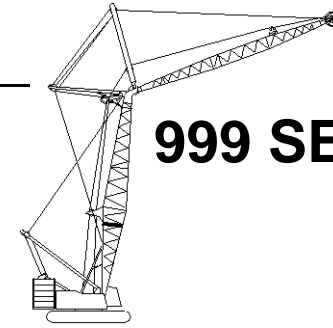
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	57.9	227.2	89,900 *b																			50
55	53.0	223.8	86,600 *b																			55
60	47.6	219.6	83,600 *	61.6	228.2	94,800 *b																60
65	41.8	214.6	79,000 *	56.9	225.2	91,200 *b																65
70	35.2	208.3	72,400 *	51.8	221.6	85,800 *b	60.0	225.9	90,400 b													70
75	27.4	200.1	66,700 *	46.4	217.3	79,200 *	55.1	222.7	83,000 b													75
80	16.4	187.6	53,800 *	40.5	212.0	73,500 *	50.0	218.9	76,700 b													80
85				33.7	205.4	68,500 *	44.4	214.2	71,300	58.7	221.8	66,300 b										85
90				25.3	196.6	64,100 *	38.2	208.5	66,500	53.7	218.5	61,800 b										90
95				12.8	182.1	53,900 *	31.0	201.3	62,200	48.5	214.4	57,900										95
100							21.8	191.2	58,400	42.7	209.5	54,400	57.0	216.3	50,300 b							100
105										36.3	203.5	51,200	51.9	212.8	47,400 b							105
110										28.7	195.6	48,300	46.5	208.4	44,800							110
115										18.4	184.1	45,700	40.6	203.2	42,400							115
120													33.8	196.6	40,200	49.6	205.5	37,000				120
125													25.5	187.8	38,100	44.0	200.8	35,100				125
130													13.2	173.6	36,200	37.8	195.0	33,400				130
135																30.5	187.6	31,900	46.7	196.4	29,200	135
140																21.0	177.2	30,400	40.7	191.2	27,800	140
145																			34.0	184.6	26,600	145
150																			25.7	175.9	25,400	150
155																			13.6	161.9	24,200	155



# Liftcrane Luffing Jib Capacities

New York City Code

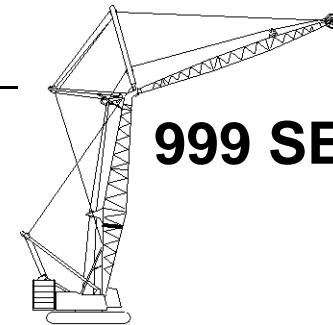
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	66.3	241.1	86,300 *b																			45
50	62.3	238.7	83,300 *b																			50
55	58.2	235.9	80,100 *b																			55
60	53.9	232.5	77,100 *	65.4	239.4	87,600 *b																60
65	49.3	228.5	74,300 *	61.4	236.9	84,400 *b																65
70	44.4	223.9	71,700 *	57.3	233.9	81,400 *b	64.1	237.2	86,700 *b													70
75	39.0	218.2	66,300 *	52.9	230.4	78,300 *	60.0	234.5	82,700 b													75
80	32.9	211.4	61,400 *	48.3	226.3	73,000 *	55.8	231.4	76,400 b													80
85	25.6	202.4	57,100 *	43.3	221.4	68,000 *	51.3	227.7	71,000	62.9	233.3	65,900 b										85
90	15.3	189.0	47,200 *	37.7	215.6	63,600 *	46.6	223.3	66,200	58.8	230.5	61,400 b										90
95				31.4	208.3	59,700 *	41.4	218.2	62,000	54.5	227.2	57,500										95
100				23.7	198.7	56,200 *	35.7	211.9	58,200	50.0	223.3	54,000										100
105				11.9	183.2	47,600 *	29.0	204.0	54,800	45.2	218.8	50,900	57.3	225.0	47,000 b							105
110							20.4	193.1	51,700	39.9	213.3	48,000	53.0	221.5	44,300							110
115										33.9	206.6	45,500	48.4	217.4	42,000							115
120										26.8	198.1	43,100	43.4	212.6	39,800							120
125										17.2	185.7	40,900	37.9	206.7	37,800	51.0	214.3	34,700				125
130													31.6	199.5	36,000	46.2	209.9	33,000				130
135													23.9	190.0	34,300	41.0	204.7	31,500				135
140													12.3	174.7	32,700	35.2	198.3	30,000				140
145																28.4	190.2	28,700	43.5	200.6	26,200	145
150																19.6	179.0	27,400	38.0	194.7	25,000	150
155																			31.7	187.6	23,900	155
160																			24.1	178.1	22,900	160

# Manitowoc Cranes, Inc.

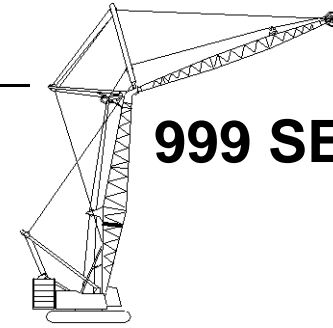
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	69.1	251.9	78,400 *b																			45
50	65.6	249.9	75,400 *b																			50
55	62.1	247.4	72,500 *b																			55
60	58.4	244.5	69,800 *	68.3	250.2	79,000 *b																60
65	54.6	241.2	67,200 *	64.8	248.1	76,200 *b																65
70	50.6	237.4	64,900 *	61.3	245.5	73,500 *b	67.1	248.2	77,700 *b													70
75	46.3	233.0	62,800 *	57.6	242.6	70,900 *	63.6	245.9	75,300 *b													75
80	41.7	227.8	60,100 *	53.7	239.1	68,500 *	60.0	243.2	72,900 *													80
85	36.7	221.7	56,100 *	49.7	235.2	66,200 *	56.3	240.1	70,600 *													85
90	31.0	214.2	52,400 *	45.3	230.6	63,300 *	52.3	236.5	66,000	62.6	241.9	61,200 b										90
95	24.1	204.6	49,100 *	40.7	225.2	59,400 *	48.2	232.3	61,800	59.0	239.1	57,200										95
100	14.4	190.3	42,000 *	35.5	218.9	55,900 *	43.8	227.5	58,000	55.2	235.9	53,800										100
105				29.6	211.0	52,700 *	38.9	221.8	54,700	51.2	232.2	50,600										105
110				22.3	200.8	49,000 *	33.6	215.0	51,600	47.0	227.8	47,800	57.6	233.7	44,100							110
115				11.3	184.2	42,500 *	27.3	206.5	48,900	42.4	222.8	45,300	53.8	230.3	41,700							115
120							19.2	194.8	46,300	37.5	216.8	42,900	49.7	226.3	39,600							120
125										31.9	209.6	40,800	45.4	221.8	37,600							125
130										25.2	200.4	38,800	40.8	216.4	35,800	52.1	223.1	32,800				130
135										16.2	187.2	37,000	35.6	210.1	34,100	47.9	218.9	31,200				135
140													29.7	202.3	32,500	43.4	214.0	29,800				140
145													22.5	192.1	31,100	38.6	208.3	28,500				145
150													11.6	175.7	29,700	33.2	201.4	27,200	45.5	209.7	24,800	150
155																26.8	192.7	26,100	40.9	204.4	23,700	155
160																18.5	180.7	24,900	35.7	198.1	22,700	160
170																			22.7	180.2	20,900	170



# Liftcrane Luffing Jib Capacities

New York City Code

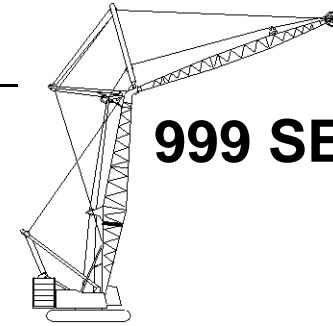
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	71.2	262.6	72,600 *b																			45
50	68.2	260.7	70,300 *b																			50
55	65.1	258.6	67,500 *b																			55
60	61.9	256.1	64,800 *	70.6	260.9	73,300 *b																60
65	58.6	253.2	62,300 *	67.5	259.0	70,700 *b																65
70	55.1	249.9	59,900 *	64.4	256.8	68,100 *																70
75	51.6	246.2	57,700 *	61.1	254.2	65,600 *	66.4	256.9	69,600 *b													75
80	47.8	242.0	55,700 *	57.8	251.2	63,200 *	63.3	254.6	66,900													80
85	43.8	237.1	53,800 *	54.4	247.9	60,900 *	60.0	251.8	61,900													85
90	39.5	231.5	50,500 *	50.8	244.0	58,800 *	56.6	248.8	57,600													90
95	34.7	224.9	47,400 *	46.9	239.7	56,700 *	53.1	245.2	53,700	62.3	250.6	47,700										95
100	29.3	216.9	44,500 *	42.9	234.7	53,700	49.5	241.2	50,300	59.1	247.8	44,600										100
105	22.8	206.7	41,800 *	38.5	228.8	50,500	45.6	236.7	47,300	55.7	244.6	41,900										105
110	13.7	191.5	37,400 *	33.6	222.0	47,600	41.4	231.4	44,500	52.1	241.0	39,400										110
115				28.0	213.6	44,900	36.9	225.2	42,000	48.4	236.8	37,100	57.9	242.3	32,400							115
120				21.1	202.7	42,400	31.8	217.9	39,700	44.4	232.0	35,100	54.4	239.0	30,600							120
125				10.7	185.1	38,000 *	25.8	208.8	37,600	40.2	226.5	33,200	50.8	235.2	28,900							125
130							18.2	196.5	35,600	35.5	220.1	31,500	47.0	230.8	27,400							130
135										30.2	212.4	29,900	43.0	225.8	25,900	52.9	231.9	22,100				135
140										23.9	202.6	28,400	38.6	220.0	24,600	49.2	227.8	20,900				140
145										15.4	188.6	26,900	33.7	213.2	23,400	45.3	223.2	19,800				145
150													28.2	204.8	22,200	41.1	217.9	18,800				150
155													21.3	194.0	21,100	36.5	211.7	17,900	47.1	218.8	14,700	155
160													11.0	176.7	20,000	31.4	204.3	17,000	43.1	213.8	13,900	160
170																17.6	182.3	15,300	33.8	201.2	12,500	170
180																			21.5	182.1	11,200	180

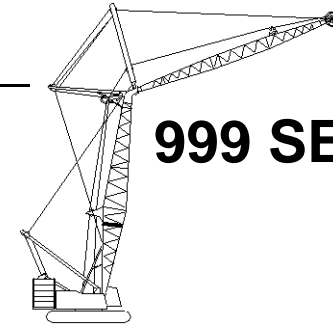




# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	73.0	273.1	67,200 *b																			45
50	70.3	271.4	65,700 *b																			50
55	67.5	269.5	63,500 *																			55
60	64.6	267.3	61,500 *																			60
65	61.7	264.7	59,400 *	69.6	269.7	65,900 *b																65
70	58.7	261.9	57,500 *	66.8	267.7	64,000 *																70
75	55.6	258.6	55,500 *	64.0	265.4	62,100 *																75
80	52.4	255.0	53,500 *	61.0	262.8	60,200 *	65.9	265.6	63,100 *													80
85	49.0	250.9	51,700 *	58.0	259.9	58,200 *	63.0	263.2	61,400 *													85
90	45.5	246.3	48,800 *	54.9	256.6	56,200 *	60.0	260.5	57,500													90
95	41.7	241.0	45,900 *	51.6	252.9	54,300 *	56.9	257.4	53,700													95
100	37.6	235.0	43,200 *	48.2	248.7	52,500 *	53.8	254.0	50,300	62.1	259.3	44,600										100
105	33.1	227.9	40,700 *	44.6	243.9	50,500	50.5	250.1	47,200	59.1	256.5	41,800										105
110	28.0	219.5	38,400 *	40.8	238.5	47,600	47.0	245.7	44,500	56.1	253.3	39,300										110
115	21.8	208.7	36,500 *	36.6	232.2	44,900	43.3	240.7	42,000	52.9	249.7	37,100										115
120	13.0	192.7	34,300 *	32.0	224.9	42,500	39.4	235.1	39,700	49.5	245.7	35,100										120
125				26.7	216.0	40,300	35.1	228.5	37,600	46.0	241.2	33,200	55.0	247.7	28,800							125
130				20.1	204.5	38,200	30.3	220.7	35,700	42.3	236.0	31,500	51.7	244.0	27,300							130
135				10.2	186.0	34,600 *	24.6	211.1	33,900	38.2	230.1	29,900	48.3	239.8	25,900							135
140							17.3	198.0	32,200	33.8	223.2	28,400	44.7	235.0	24,600							140
145										28.8	215.0	27,000	40.9	229.7	23,400	50.2	236.7	19,800				145
150										22.8	204.6	25,700	36.7	223.4	22,200	46.8	232.3	18,800				150
155										14.7	189.9	24,500	32.1	216.1	21,200	43.1	227.3	17,900				155
160													26.8	207.3	20,200	39.1	221.5	17,000				160
170													10.5	177.7	18,300	29.9	207.0	15,400	41.0	217.6	12,500	170
180																16.7	183.8	13,900	32.2	204.2	11,300	180
190																			20.5	184.0	10,100	190



# Liftcrane Luffing Jib Capacities

New York City Code

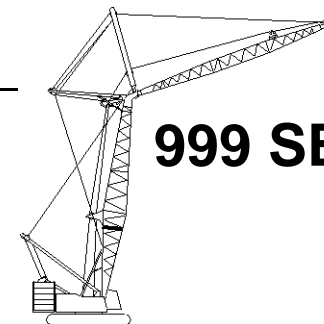
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	74.5	283.5	54,700 *b																			45
50	72.0	282.0	53,700 *b																			50
55	69.4	280.2	52,700 *																			55
60	66.9	278.2	51,800 *																			60
65	64.2	276.0	50,900 *																			65
70	61.5	273.4	49,100 *	68.9	278.5	53,500 *																70
75	58.8	270.5	47,400 *	66.3	276.5	52,900 *																75
80	56.0	267.3	45,600 *	63.6	274.1	51,200 *	68.0	276.5	52,800 *													80
85	53.0	263.8	44,000 *	61.0	271.5	49,500 *	65.4	274.3	52,100 *													85
90	50.0	259.8	42,400 *	58.2	268.6	47,700 *	62.7	271.9	50,500 *													90
95	46.8	255.3	40,900 *	55.3	265.3	46,000 *	60.0	269.2	48,900 *													95
100	43.4	250.4	39,500 *	52.4	261.6	44,400 *	57.2	266.1	47,200 *													100
105	39.8	244.7	38,200 *	49.3	257.6	42,800 *	54.3	262.7	45,600 *	62.0	267.9	41,300										105
110	35.9	238.3	36,700 *	46.1	253.0	41,300 *	51.3	258.9	44,000 *	59.2	265.1	38,800										110
115	31.6	230.8	34,800 *	42.6	247.9	39,900 *	48.2	254.7	41,500	56.4	262.0	36,600										115
120	26.7	221.9	33,000 *	39.0	242.1	38,600 *	44.9	250.0	39,300	53.5	258.5	34,500										120
125	20.8	210.5	31,500 *	35.0	235.5	37,400 *	41.4	244.6	37,200	50.4	254.6	32,700										125
130	12.5	193.8	30,300 *	30.6	227.7	36,300 *	37.7	238.6	35,300	47.3	250.2	31,000	55.4	256.4	26,700							130
135				25.5	218.4	35,200 *	33.6	231.6	33,500	43.9	245.3	29,400	52.4	252.8	25,300							135
140				19.3	206.2	34,300	29.0	223.3	31,900	40.4	239.8	27,900	49.4	248.7	24,100							140
145				9.7	186.9	31,000 *	23.6	213.2	30,400	36.5	233.5	26,600	46.1	244.2	22,900							145
150							16.6	199.5	28,900	32.3	226.2	25,300	42.7	239.1	21,700	51.1	245.5	18,200				150
155										27.5	217.5	24,100	39.1	233.3	20,700	48.0	241.3	17,300				155
160										21.8	206.6	23,000	35.1	226.7	19,700	44.7	236.5	16,400				160
170													25.7	209.6	17,900	37.4	225.0	14,900	46.2	232.1	11,900	170
180													10.0	178.6	16,200	28.6	209.6	13,500	39.2	221.3	10,700	180
190																16.0	185.2	12,200	30.8	207.0	9,600	190
200																			19.6	185.7	8,600	200

# Manitowoc Cranes, Inc.

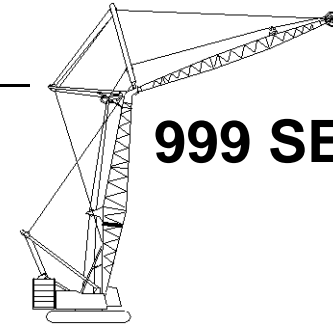
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.7	293.9	51,200 *b																			45
50	73.4	292.5	50,300 *b																			50
55	71.1	290.9	49,500 *																			55
60	68.7	289.0	48,600 *																			60
65	66.3	287.0	47,000 *																			65
70	63.9	284.6	45,400 *	70.6	289.2	49,800 *																70
75	61.4	282.1	43,800 *	68.2	287.3	48,700 *																75
80	58.9	279.2	42,200 *	65.8	285.2	47,200 *																80
85	56.3	276.0	40,700 *	63.4	282.8	45,600 *	67.4	285.2	47,800 *													85
90	53.6	272.5	39,200 *	60.9	280.2	44,100 *	65.0	283.0	46,400 *													90
95	50.8	268.6	37,800 *	58.3	277.2	42,500 *	62.5	280.6	45,000 *													95
100	47.9	264.3	36,500 *	55.7	274.0	41,100 *	60.0	277.8	43,600 *													100
105	44.8	259.6	35,200 *	53.0	270.4	39,600 *	57.4	274.8	42,100 *													105
110	41.6	254.3	34,000 *	50.2	266.4	38,200 *	54.8	271.4	40,700 *	61.8	276.6	38,400										110
115	38.2	248.3	32,800 *	47.2	262.0	36,900 *	52.0	267.7	39,300 *	59.3	273.8	36,200										115
120	34.5	241.5	31,800 *	44.2	257.2	35,600 *	49.2	263.6	38,000 *	56.7	270.7	34,200										120
125	30.4	233.6	30,400 *	40.9	251.7	34,400 *	46.2	259.1	36,700 *	54.0	267.2	32,300										125
130	25.7	224.2	29,000 *	37.4	245.6	33,200 *	43.0	254.0	35,000	51.2	263.4	30,600										130
135	20.0	212.3	27,700 *	33.6	238.6	32,100 *	39.7	248.3	33,200	48.3	259.2	29,100	55.8	265.1	25,000							135
140	12.0	194.9	26,800 *	29.4	230.4	31,100 *	36.1	241.9	31,600	45.3	254.5	27,600	53.0	261.5	23,700							140
145				24.5	220.6	30,200 *	32.2	234.5	30,100	42.1	249.2	26,300	50.2	257.6	22,500							145
150				18.5	207.9	29,400 *	27.8	225.9	28,700	38.7	243.4	25,000	47.3	253.2	21,400							150
155				9.4	187.8	27,700 *	22.6	215.2	27,400	35.1	236.7	23,900	44.2	248.3	20,300	51.8	254.3	16,900				155
160							15.9	201.0	26,100	31.0	229.0	22,800	41.0	242.9	19,400	49.0	250.2	16,100				160
170										20.9	208.5	20,700	33.7	229.8	17,600	42.8	240.5	14,500				170
180													24.6	211.9	16,000	35.9	228.3	13,100	44.3	236.3	10,300	180
190													9.6	179.4	14,500	27.5	212.1	11,900	37.6	224.8	9,300	190
200																15.4	186.6	10,700	29.6	209.7	8,300	200
210																			18.8	187.4	7,400	210



# Liftcrane Luffing Jib Capacities

New York City Code

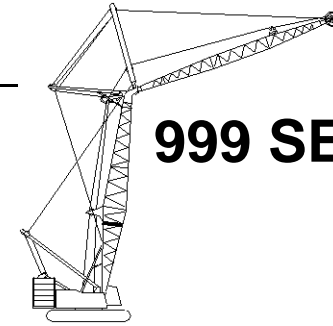
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	74.6	302.9	46,900 * <sup>b</sup>																			50
55	72.5	301.4	46,200 *																			55
60	70.3	299.7	44,900 *																			60
65	68.1	297.8	43,300 *																			65
70	65.9	295.7	41,700 *																			70
75	63.6	293.3	40,200 *	69.8	298.0	44,700 *																75
80	61.3	290.7	38,700 *	67.6	296.1	43,300 *																80
85	59.0	287.9	37,200 *	65.4	293.9	41,800 *																85
90	56.6	284.7	35,800 *	63.1	291.5	40,400 *	66.9	294.0	42,500 *													90
95	54.1	281.2	34,500 *	60.8	288.8	38,900 *	64.6	291.7	41,100 *													95
100	51.5	277.4	33,200 *	58.4	285.9	37,500 *	62.3	289.2	39,800 *													100
105	48.8	273.3	31,900 *	56.0	282.7	36,100 *	60.0	286.5	38,400 *													105
110	46.0	268.7	30,700 *	53.5	279.1	34,800 *	57.6	283.5	37,100 *													110
115	43.1	263.6	29,500 *	50.9	275.3	33,400 *	55.1	280.1	35,800 *	61.7	285.3	35,700										115
120	40.1	258.0	28,400 *	48.2	271.0	32,200 *	52.6	276.5	34,400 *	59.3	282.5	33,600										120
125	36.8	251.7	27,400 *	45.4	266.3	31,000 *	50.0	272.5	33,200 *	56.9	279.3	31,800										125
130	33.2	244.5	26,400 *	42.5	261.1	29,800 *	47.3	268.1	31,900 *	54.4	275.9	30,100										130
135	29.2	236.3	25,400 *	39.3	255.4	28,700 *	44.4	263.2	30,700 *	51.9	272.2	28,600										135
140	24.7	226.4	24,600 *	36.0	248.9	27,600 *	41.4	257.8	29,600 *	49.2	268.1	27,100	56.1	273.8	23,100							140
145	19.3	214.1	23,900 *	32.4	241.5	26,600 *	38.2	251.8	28,500 *	46.5	263.5	25,800	53.6	270.3	21,900							145
150	11.5	195.9	23,300 *	28.3	233.0	25,700 *	34.8	245.1	27,400 *	43.6	258.5	24,500	51.0	266.4	20,800							150
155				23.6	222.7	24,800 *	31.0	237.4	26,500 *	40.5	253.0	23,400	48.3	262.2	19,800							155
160				17.8	209.5	24,100 *	26.8	228.3	25,600 *	37.3	246.8	22,300	45.5	257.5	18,900	52.4	263.1	15,500				160
170							15.4	202.3	23,500	29.9	231.7	20,300	39.4	246.5	17,100	47.1	254.6	14,000				170
180										20.2	210.3	18,500	32.4	232.7	15,500	41.2	244.3	12,600				180
190													23.7	214.0	14,100	34.5	231.5	11,400	42.6	240.3	8,700	190
200													9.3	180.3	12,800	26.5	214.5	10,300	36.1	228.1	7,800	200
210																14.8	187.9	9,200	28.5	212.3	6,900	210
220																			18.1	189.1	6,100	220

# Manitowoc Cranes, Inc.

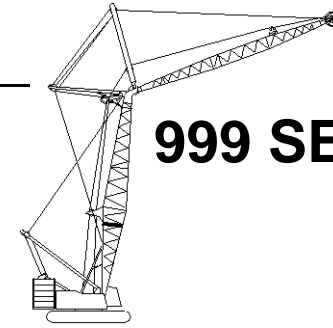
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	75.7	313.2	43,800 *																			50
55	73.7	311.8	43,000 *																			55
60	71.7	310.3	41,500 *																			60
65	69.6	308.5	40,000 *																			65
70	67.6	306.6	38,600 *																			70
75	65.5	304.4	37,100 *																			75
80	63.4	302.0	35,700 *	69.2	306.8	39,900 *																80
85	61.2	299.4	34,300 *	67.1	304.8	38,500 *																85
90	59.0	296.5	32,900 *	65.1	302.6	37,200 *																90
95	56.8	293.4	31,600 *	62.9	300.2	35,800 *	66.4	302.7	37,800 *													95
100	54.5	290.0	30,400 *	60.8	297.5	34,500 *	64.3	300.4	36,500 *													100
105	52.1	286.2	29,100 *	58.5	294.6	33,100 *	62.2	297.9	35,300 *													105
110	49.6	282.2	27,900 *	56.3	291.4	31,800 *	60.0	295.2	34,000 *													110
115	47.1	277.7	26,800 *	54.0	287.9	30,600 *	57.8	292.1	32,700 *													115
120	44.4	272.8	25,700 *	51.6	284.1	29,300 *	55.5	288.8	31,500 *	61.6	293.9	33,500										120
125	41.6	267.5	24,700 *	49.1	279.9	28,100 *	53.1	285.2	30,300 *	59.4	291.1	31,700										125
130	38.6	261.6	23,700 *	46.5	275.4	27,000 *	50.7	281.3	29,100 *	57.1	288.0	30,000										130
135	35.5	254.9	22,700 *	43.8	270.4	25,900 *	48.2	277.1	27,900 *	54.8	284.6	28,400										135
140	32.0	247.4	21,800 *	41.0	264.9	24,900 *	45.6	272.4	26,800 *	52.5	281.0	27,000										140
145	28.2	238.8	21,000 *	38.0	258.9	23,900 *	42.8	267.2	25,700 *	50.0	276.9	25,700	56.3	282.5	21,800							145
150	23.9	228.6	20,200 *	34.7	252.1	22,900 *	39.9	261.6	24,700 *	47.5	272.6	24,400	54.0	279.0	20,700							150
155	18.6	215.7	19,500 *	31.2	244.4	22,000 *	36.9	255.2	23,700 *	44.8	267.8	23,300	51.6	275.2	19,700							155
160	11.2	196.9	18,900 *	27.3	235.4	21,200 *	33.6	248.2	22,700 *	42.0	262.5	22,200	49.1	271.1	18,700							160
170				17.2	211.0	19,700 *	25.8	230.6	21,000 *	36.0	250.1	20,200	43.9	261.6	17,000	50.5	267.9	13,800				170
180							14.8	203.7	19,600 *	28.8	234.4	18,500	38.0	250.0	15,400	45.4	258.9	12,500				180
190										19.5	212.1	16,900	31.3	235.6	14,100	39.7	248.0	11,300	46.6	254.5	8,600	190
200													22.9	216.1	12,800	33.3	234.5	10,200	41.1	244.1	7,600	200
210													9.0	181.1	11,600	25.5	216.8	9,200	34.9	231.3	6,800	210
220																14.3	189.2	8,200	27.5	214.8	6,000	220
230																			17.5	190.6	5,300	230



# Liftcrane Luffing Jib Capacities

New York City Code

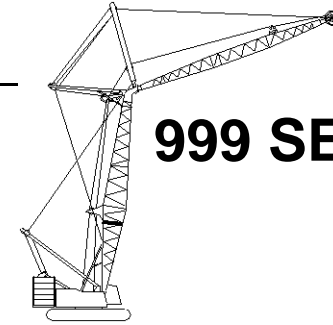
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	74.7	322.2	39,600 *																			55
60	72.9	320.8	38,100 *																			60
65	71.0	319.1	36,700 *																			65
70	69.1	317.3	35,300 *																			70
75	67.1	315.3	33,900 *																			75
80	65.2	313.1	32,600 *	70.6	317.5	36,400 *																80
85	63.2	310.7	31,200 *	68.6	315.6	35,100 *																85
90	61.2	308.1	29,900 *	66.7	313.6	33,900 *																90
95	59.1	305.2	28,600 *	64.7	311.3	32,600 *	68.0	313.6	34,400 *													95
100	57.0	302.1	27,400 *	62.7	308.8	31,300 *	66.0	311.4	33,200 *													100
105	54.8	298.7	26,200 *	60.7	306.2	30,000 *	64.1	309.1	32,000 *													105
110	52.6	295.0	25,000 *	58.6	303.2	28,700 *	62.0	306.6	30,800 *													110
115	50.3	291.0	23,900 *	56.5	300.1	27,500 *	60.0	303.8	29,600 *													115
120	47.9	286.7	22,900 *	54.3	296.6	26,300 *	57.9	300.8	28,400 *													120
125	45.5	282.0	21,800 *	52.1	292.9	25,200 *	55.8	297.5	27,200 *	61.5	302.6	30,000 *										125
130	42.9	276.9	20,800 *	49.8	288.8	24,000 *	53.6	294.0	26,000 *	59.4	299.8	28,900 *										130
135	40.2	271.2	19,900 *	47.4	284.4	23,000 *	51.3	290.1	24,900 *	57.3	296.7	27,800 *										135
140	37.4	265.0	19,000 *	44.9	279.6	21,900 *	49.0	286.0	23,800 *	55.2	293.3	26,500 *										140
145	34.3	258.1	18,100 *	42.3	274.4	20,900 *	46.6	281.4	22,700 *	52.9	289.7	25,200 *										145
150	31.0	250.3	17,300 *	39.6	268.6	20,000 *	44.0	276.5	21,700 *	50.7	285.8	23,900 *	56.6	291.2	20,200 *							150
155	27.3	241.3	16,600 *	36.7	262.2	19,100 *	41.4	271.1	20,700 *	48.3	281.5	22,800 *	54.4	287.7	19,100 *							155
160	23.1	230.7	15,900 *	33.6	255.1	18,200 *	38.6	265.1	19,800 *	45.9	276.9	21,700 *	52.2	284.0	18,200 *							160
170	10.8	197.9	14,700 *	26.4	237.8	16,600 *	32.5	251.1	18,100 *	40.6	266.2	19,800 *	47.5	275.6	16,500 *							170
180				16.7	212.5	15,300 *	25.0	232.9	16,500 *	34.8	253.3	18,000 *	42.4	265.5	14,900 *	48.8	272.6	11,900 *				180
190							14.4	204.9	15,200 *	27.9	236.9	16,500 *	36.8	253.4	13,600 *	43.9	263.0	10,700 *				190
200										18.9	213.7	15,100 *	30.3	238.3	12,400 *	38.4	251.6	9,700 *	45.0	258.7	7,100 *	200
210													22.2	218.0	11,200 *	32.2	237.5	8,700 *	39.7	247.8	6,300 *	210
220													8.7	181.8	10,100 *	24.7	219.0	7,800 *	33.7	234.4	5,500 *	220
230																13.9	190.5	6,900 *	26.6	217.2	4,800 *	230
240																			16.9	192.1	4,100 *	240

# Manitowoc Cranes, Inc.

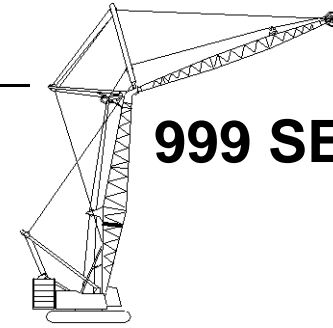
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 160 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	75.6	332.6	36,200 *																			55
60	73.9	331.2	35,200 *																			60
65	72.1	329.7	33,900 *																			65
70	70.3	328.0	32,600 *																			70
75	68.5	326.1	31,300 *																			75
80	66.7	324.1	30,000 *																			80
85	64.9	321.8	28,700 *	70.0	326.3	32,300 *																85
90	63.0	319.4	27,500 *	68.2	324.4	31,100 *																90
95	61.1	316.7	26,200 *	66.3	322.3	29,900 *																95
100	59.2	313.8	25,000 *	64.5	320.0	28,700 *	67.5	322.3	30,400 *													100
105	57.2	310.7	23,900 *	62.6	317.5	27,500 *	65.7	320.2	29,300 *													105
110	55.1	307.4	22,800 *	60.7	314.8	26,300 *	63.8	317.8	28,100 *													110
115	53.1	303.8	21,700 *	58.7	311.9	25,100 *	61.9	315.2	27,000 *													115
120	50.9	299.9	20,700 *	56.7	308.7	24,000 *	60.0	312.5	25,900 *													120
125	48.7	295.6	19,700 *	54.7	305.3	22,800 *	58.0	309.5	24,700 *													125
130	46.4	291.1	18,700 *	52.6	301.6	21,800 *	56.0	306.2	23,600 *	61.4	311.3	26,300 *										130
135	44.1	286.1	17,800 *	50.4	297.7	20,700 *	54.0	302.7	22,500 *	59.4	308.4	25,300 *										135
140	41.6	280.7	16,900 *	48.2	293.4	19,700 *	51.9	298.9	21,500 *	57.5	305.4	24,300 *										140
145	39.0	274.8	16,100 *	45.9	288.7	18,800 *	49.7	294.9	20,500 *	55.4	302.0	23,200 *										145
150	36.2	268.3	15,300 *	43.5	283.7	17,800 *	47.4	290.4	19,500 *	53.4	298.5	22,200 *										150
155	33.3	261.1	14,500 *	41.0	278.2	17,000 *	45.1	285.7	18,500 *	51.2	294.6	21,200 *	56.8	299.9	18,800							155
160	30.0	253.0	13,800 *	38.4	272.1	16,100 *	42.7	280.5	17,600 *	49.1	290.4	20,200 *	54.7	296.4	17,800							160
170	22.4	232.7	12,300 *	32.6	258.1	14,600 *	37.4	268.6	15,900 *	44.4	281.0	18,400 *	50.5	288.8	16,100							170
180	10.5	198.8	10,800 *	25.6	240.1	13,100 *	31.5	254.0	14,400 *	39.4	269.9	16,600 *	46.0	279.9	14,600	51.7	285.6	11,600				180
190				16.2	214.0	11,400 *	24.2	235.1	12,800 *	33.7	256.4	15,000 *	41.1	269.3	13,200	47.3	277.0	10,400				190
200							13.9	206.2	11,200 *	27.0	239.3	13,600 *	35.6	256.7	12,000	42.5	267.0	9,300				200
210										18.3	215.4	11,800 *	29.4	241.0	10,900	37.2	255.0	8,300	43.6	262.8	5,900	210
220													21.5	220.0	9,900	31.2	240.3	7,500	38.5	251.3	5,100	220
230													8.4	182.6	8,900	24.0	221.2	6,600	32.7	237.4	4,400	230
240																13.4	191.7	5,900				240



# Liftcrane Luffing Jib Capacities

New York City Code

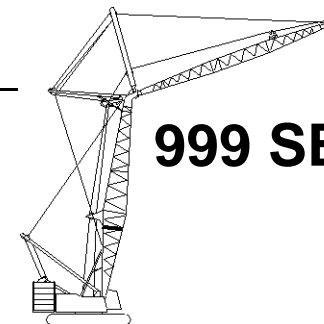
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	58.3	237.4	89,400 *b																			50
55	53.3	234.0	86,200 *b																			55
60	48.0	229.9	83,300 *b																			60
65	42.2	224.9	77,600 *	58.0	235.9	90,200 *b																65
70	35.7	218.8	71,100 *	53.1	232.5	84,700 *b	61.6	236.7	89,300 *b													70
75	28.0	210.7	65,500 *	47.8	228.4	78,200 *	56.9	233.7	82,200 b													75
80	17.3	198.8	55,100 *	42.0	223.3	72,600 *	51.8	230.1	76,000 b													80
85				35.4	217.1	67,600 *	46.4	225.8	70,600	61.1	233.0	65,200 b										85
90				27.6	208.9	63,200 *	40.5	220.5	65,800	56.3	229.9	60,800 b										90
95				16.7	196.6	58,200 *	33.7	213.9	61,600	51.2	226.3	56,900 b										95
100							25.3	205.1	57,900	45.8	221.9	53,500										100
105							12.8	190.6	54,400	39.7	216.4	50,400	55.4	224.7	46,200 b							105
110										32.8	209.6	47,500	50.3	220.9	43,600 b							110
115										24.2	200.4	45,000	44.7	216.3	41,300							115
120										10.5	184.5	42,600	38.6	210.7	39,200							120
125													31.4	203.5	37,200	48.8	213.9	33,900				125
130													22.3	193.7	35,400	43.1	209.0	32,300				130
135													4.9	173.0	33,600	36.7	203.0	30,800				135
140																29.2	195.3	29,300	46.7	205.1	26,600	140
145																19.2	184.2	28,000	40.7	199.8	25,400	145
150																			34.0	193.3	24,200	150
155																			25.7	184.6	23,200	155
160																			13.6	170.6	22,100	160



# Manitowoc Cranes, Inc.

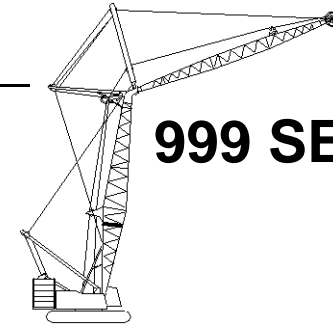
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	62.6	248.9	82,800 *b																			50
55	58.5	246.1	79,700 *b																			55
60	54.2	242.8	76,800 *	66.4	249.8	86,300 *b																60
65	49.6	238.8	73,900 *	62.4	247.4	84,500 *b																65
70	44.7	234.2	68,900 *	58.3	244.6	81,600 *b	65.4	247.9	85,900 *b													70
75	39.4	228.7	64,200 *	54.0	241.2	77,700 *	61.4	245.4	81,900 b													75
80	33.4	221.9	59,900 *	49.4	237.3	72,100 *	57.3	242.4	75,600 b													80
85	26.1	213.1	56,000 *	44.5	232.6	67,100 *	52.9	238.9	70,200													85
90	16.2	200.2	48,300 *	39.1	227.0	62,800 *	48.3	234.8	65,500	61.0	241.6	60,400 b										90
95				33.1	220.2	58,900 *	43.3	229.9	61,300	56.8	238.6	56,500 b										95
100				25.8	211.3	55,400 *	37.7	224.1	57,600	52.4	235.1	53,100										100
105				15.6	198.1	51,200 *	31.4	216.8	54,300	47.7	230.9	50,000										105
110							23.7	207.2	51,200	42.7	225.9	47,200	56.0	233.4	43,200							110
115							12.0	191.7	48,400	37.1	219.9	44,700	51.6	229.7	40,900							115
120										30.6	212.5	42,400	46.8	225.4	38,800							120
125										22.7	202.5	40,200	41.7	220.3	36,800							125
130										9.8	185.3	38,200	36.0	214.0	35,100	50.3	222.7	31,800				130
135													29.3	206.2	33,400	45.5	218.2	30,300				135
140													20.9	195.6	31,800	40.2	212.8	28,900				140
145													4.6	173.5	30,300	34.3	206.2	27,600				145
150																27.3	197.8	26,400	43.5	209.2	23,800	150
155																17.9	185.8	25,300	38.0	203.4	22,800	155
160																			31.7	196.2	21,800	160
170																			12.7	171.7	20,000	170



# Liftcrane Luffing Jib Capacities

New York City Code

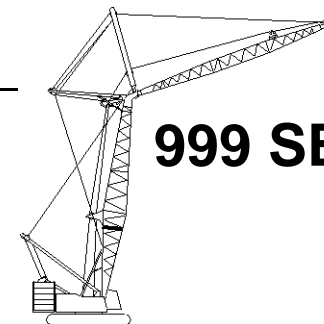
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	69.3	262.1	76,700 *b																			45
50	65.9	260.0	74,800 *b																			50
55	62.3	257.6	72,100 *b																			55
60	58.7	254.8	69,400 *	69.1	260.6	78,300 *b																60
65	54.8	251.5	67,000 *	65.7	258.5	76,100 *b																65
70	50.9	247.7	64,700 *	62.1	256.1	73,500 *b																70
75	46.6	243.3	61,500 *	58.5	253.3	71,100 *	64.8	256.6	72,000 b													75
80	42.1	238.2	57,600 *	54.7	250.0	68,700 *	61.3	254.0	66,300 b													80
85	37.1	232.1	53,900 *	50.7	246.1	65,800	57.6	251.1	61,400													85
90	31.4	224.8	50,500 *	46.4	241.7	61,300	53.7	247.6	57,100													90
95	24.6	215.4	47,600 *	41.8	236.6	57,200	49.7	243.7	53,300	60.9	250.3	46,900 b										95
100	15.3	201.6	42,900 *	36.8	230.5	53,600	45.3	239.1	50,000	57.1	247.3	43,900										100
105				31.1	223.0	50,300	40.7	233.7	46,900	53.3	243.8	41,200										105
110				24.3	213.5	47,400	35.5	227.4	44,200	49.2	239.8	38,800										110
115				14.7	199.4	44,700	29.6	219.5	41,700	44.8	235.1	36,600	56.4	242.1	31,500							115
120							22.3	209.3	39,400	40.1	229.7	34,500	52.5	238.5	29,700							120
125							11.3	192.7	37,200	34.9	223.2	32,700	48.4	234.4	28,100							125
130										28.9	215.1	31,000	44.0	229.6	26,600							130
135										21.3	204.5	29,400	39.2	223.9	25,200	51.4	231.6	21,100				135
140										9.3	186.2	27,800	33.9	217.2	23,900	47.2	227.3	20,000				140
145													27.6	208.8	22,700	42.7	222.3	19,000				145
150													19.7	197.4	21,600	37.8	216.3	18,000				150
155													4.3	173.9	20,400	32.2	209.2	17,100	45.5	218.4	13,700	155
160																25.7	200.2	16,200	40.9	213.1	13,000	160
170																			29.9	199.0	11,600	170
180																			11.9	172.8	10,300	180

# Manitowoc Cranes, Inc.

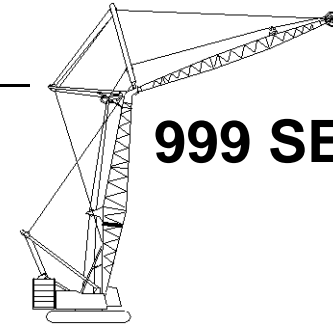
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	71.4	272.7	70,700 *b																			45
50	68.4	270.9	69,800 *b																			50
55	65.3	268.7	67,100 *b																			55
60	62.1	266.3	64,500 *																			60
65	58.8	263.4	62,100 *	68.3	269.4	70,600 *b																65
70	55.4	260.2	59,800 *	65.1	267.3	68,200 *b																70
75	51.8	256.5	57,600 *	61.9	264.8	65,800 *	67.5	267.5	69,700 *b													75
80	48.1	252.3	55,100 *	58.6	261.9	63,500 *	64.4	265.3	65,800													80
85	44.1	247.5	51,800 *	55.2	258.7	61,200 *	61.1	262.7	60,900													85
90	39.8	241.9	48,600 *	51.6	254.9	59,100 *	57.8	259.7	56,600													90
95	35.1	235.4	45,700 *	47.9	250.7	56,800	54.4	256.4	52,900													95
100	29.8	227.5	43,000 *	43.9	245.9	53,200	50.8	252.5	49,500	60.8	259.0	43,400										100
105	23.3	217.5	40,500 *	39.6	240.3	50,000	46.9	248.2	46,500	57.4	256.0	40,700										105
110	14.5	202.9	38,200 *	34.9	233.7	47,100	42.9	243.2	43,700	54.0	252.6	38,200										110
115				29.5	225.7	44,400	38.5	237.3	41,300	50.3	248.7	36,000										115
120				23.0	215.6	42,000	33.6	230.5	39,000	46.5	244.2	34,000	56.8	250.7	29,100							120
125				14.0	200.6	39,700	28.0	222.1	36,900	42.4	239.1	32,200	53.3	247.2	27,500							125
130							21.1	211.2	35,000	38.0	233.2	30,500	49.7	243.3	26,000							130
135							10.7	193.6	33,200	33.0	226.2	29,000	45.8	238.7	24,700							135
140										27.3	217.6	27,500	41.6	233.5	23,400	52.3	240.3	19,400				140
145										20.2	206.3	26,100	37.1	227.4	22,200	48.6	236.2	18,400				145
150										8.8	187.0	24,800	32.1	220.1	21,100	44.7	231.5	17,400				150
155													26.2	211.2	20,100	40.4	226.0	16,500				155
160													18.7	199.0	19,100	35.8	219.7	15,700	47.1	227.4	12,400	160
170																24.3	202.4	14,100	38.7	216.7	11,100	170
180																			28.3	201.6	9,900	180
190																			11.3	173.8	8,700	190



# Liftcrane Luffing Jib Capacities

New York City Code

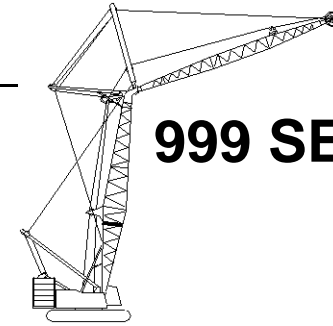
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	73.2	283.2	57,300 *b																			45
50	70.4	281.5	56,200 *b																			50
55	67.7	279.6	55,100 *b																			55
60	64.8	277.4	54,100 *																			60
65	61.9	274.9	53,200 *	70.3	280.1	57,200 *b																65
70	58.9	272.1	52,300 *	67.5	278.2	56,500 *																70
75	55.8	268.9	51,000 *	64.7	276.0	55,700 *																75
80	52.6	265.3	49,300 *	61.8	273.4	55,000 *	66.8	276.2	55,900 *													80
85	49.2	261.2	47,600 *	58.8	270.6	53,700 *	64.0	273.9	55,500 *													85
90	45.7	256.6	46,100 *	55.7	267.4	51,900 *	61.0	271.3	55,000 *													90
95	41.9	251.4	43,500 *	52.4	263.7	50,200 *	58.0	268.4	52,800													95
100	37.9	245.4	41,100 *	49.1	259.6	48,600 *	54.9	265.1	49,400													100
105	33.4	238.5	38,900 *	45.5	255.0	47,000 *	51.6	261.4	46,400	60.7	267.6	40,600										105
110	28.3	230.1	36,800 *	41.8	249.8	45,600 *	48.2	257.1	43,700	57.7	264.6	38,200										110
115	22.2	219.5	35,000 *	37.7	243.8	44,300 *	44.6	252.4	41,200	54.5	261.3	36,000										115
120	13.8	204.2	33,700 *	33.2	236.8	42,000	40.8	247.0	39,000	51.3	257.5	34,000										120
125				28.1	228.3	39,800	36.6	240.7	37,000	47.8	253.2	32,200	57.1	259.4	27,500							125
130				21.9	217.6	37,800	32.0	233.4	35,100	44.2	248.4	30,500	53.9	256.0	26,000							130
135				13.3	201.8	35,900	26.7	224.5	33,300	40.4	242.9	28,900	50.7	252.1	24,600							135
140							20.2	213.0	31,700	36.1	236.6	27,500	47.2	247.8	23,400							140
145							10.2	194.6	30,100	31.5	229.1	26,200	43.5	242.8	22,200							145
150										26.0	220.0	24,900	39.6	237.2	21,100	49.7	245.1	17,400				150
155										19.3	208.0	23,700	35.3	230.7	20,100	46.2	240.6	16,500				155
160										8.4	187.7	22,600	30.5	222.9	19,100	42.5	235.5	15,700				160
170													17.8	200.6	17,400	34.1	222.8	14,200	44.8	231.7	11,100	170
180																23.2	204.5	12,800	36.8	220.1	9,900	180
190																		27.0	204.0	8,900		190
200																		10.8	174.8	7,800		200

# Manitowoc Cranes, Inc.

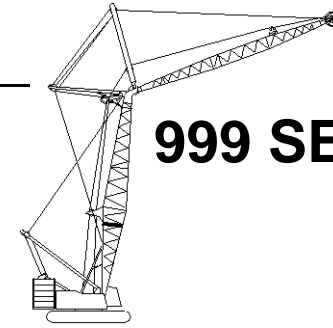
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	74.6	293.6	53,800 *b																			45
50	72.1	292.1	52,800 *b																			50
55	69.6	290.4	51,900 *																			55
60	67.0	288.4	51,000 *																			60
65	64.4	286.1	50,200 *																			65
70	61.7	283.6	48,900 *	69.5	288.9	52,700 *																70
75	59.0	280.7	47,300 *	66.9	286.9	52,100 *																75
80	56.2	277.6	45,600 *	64.3	284.7	51,300 *																80
85	53.2	274.0	44,000 *	61.6	282.1	49,600 *	66.3	285.0	51,600 *													85
90	50.2	270.1	42,400 *	58.9	279.2	48,000 *	63.6	282.6	50,700 *													90
95	47.0	265.7	40,900 *	56.0	276.0	46,300 *	61.0	280.0	49,300 *													95
100	43.7	260.7	39,500 *	53.1	272.5	44,700 *	58.2	277.1	47,700 *													100
105	40.1	255.1	37,500 *	50.1	268.5	43,100 *	55.3	273.8	45,900													105
110	36.2	248.8	35,500 *	46.9	264.1	41,600 *	52.4	270.1	43,200	60.6	276.3	37,600										110
115	32.0	241.4	33,700 *	43.5	259.1	40,300 *	49.3	266.1	40,800	57.9	273.3	35,400										115
120	27.1	232.6	32,100 *	39.9	253.5	38,900 *	46.1	261.5	38,600	55.0	270.0	33,500										120
125	21.3	221.4	30,600 *	36.0	247.1	37,700 *	42.6	256.4	36,500	52.0	266.3	31,700										125
130	13.2	205.3	29,500 *	31.7	239.7	36,600 *	39.0	250.6	34,700	48.9	262.2	30,000	57.3	268.1	25,400							130
135				26.9	230.8	35,500 *	35.0	244.0	32,900	45.7	257.6	28,500	54.5	264.7	24,100							135
140				21.0	219.5	33,900	30.6	236.2	31,300	42.2	252.4	27,000	51.5	260.9	22,800							140
145				12.7	203.0	32,200	25.6	226.9	29,800	38.6	246.5	25,700	48.4	256.7	21,700							145
150							19.3	214.7	28,400	34.6	239.8	24,500	45.1	252.0	20,600							150
155							9.8	195.4	27,100	30.1	231.9	23,300	41.6	246.7	19,600	50.6	254.0	15,900				155
160										24.9	222.3	22,200	37.9	240.7	18,600	47.5	249.6	15,100				160
170										8.0	188.4	20,200	29.2	225.6	16,900	40.6	239.3	13,600				170
180													17.0	202.2	15,300	32.6	225.8	12,300	42.8	235.7	9,300	180
190																22.2	206.5	11,100	35.2	223.3	8,300	190
200																			25.8	206.4	7,400	200
210																			10.3	175.7	6,500	210



# Liftcrane Luffing Jib Capacities

New York City Code

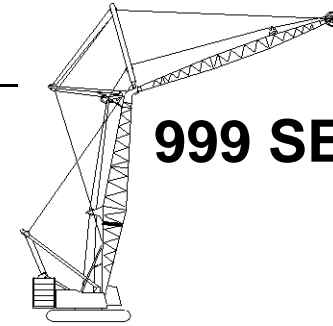
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	75.8	303.9	50,400 *b																			45
50	73.5	302.6	49,500 *b																			50
55	71.2	301.0	48,700 *																			55
60	68.9	299.2	47,900 *																			60
65	66.5	297.1	46,800 *																			65
70	64.1	294.8	45,200 *																			70
75	61.6	292.2	43,600 *	68.8	297.7	48,600 *																75
80	59.1	289.4	42,100 *	66.4	295.7	47,200 *																80
85	56.5	286.2	40,600 *	64.0	293.3	45,700 *																85
90	53.8	282.8	39,200 *	61.5	290.8	44,200 *	65.8	293.7	46,600 *													90
95	51.0	278.9	37,800 *	59.0	287.9	42,800 *	63.4	291.3	45,200 *													95
100	48.1	274.6	36,500 *	56.3	284.7	41,300 *	60.9	288.7	43,900 *													100
105	45.1	269.9	35,300 *	53.7	281.2	39,900 *	58.3	285.7	42,500 *													105
110	41.9	264.6	34,100 *	50.9	277.4	38,500 *	55.7	282.5	41,100 *													110
115	38.4	258.7	32,600 *	48.0	273.1	37,200 *	53.0	278.9	39,800 *	60.6	284.9	35,100										115
120	34.7	252.0	31,000 *	44.9	268.3	35,900 *	50.2	274.9	38,200	58.0	282.0	33,100										120
125	30.7	244.2	29,500 *	41.7	263.0	34,700 *	47.2	270.5	36,200	55.4	278.7	31,300										125
130	26.0	234.9	28,200 *	38.3	257.1	33,500 *	44.2	265.7	34,400	52.7	275.1	29,600										130
135	20.4	223.3	27,000 *	34.6	250.3	32,500 *	40.9	260.2	32,600	49.8	271.1	28,100	57.6	276.8	23,700							135
140	12.7	206.5	26,100 *	30.5	242.4	31,400 *	37.4	254.1	31,000	46.9	266.6	26,700	54.9	273.4	22,400							140
145				25.8	233.1	30,500 *	33.6	247.1	29,600	43.8	261.7	25,400	52.2	269.7	21,300							145
150				20.1	221.3	29,700 *	29.4	238.9	28,200	40.5	256.2	24,200	49.3	265.6	20,200							150
155				12.2	204.1	28,900 *	24.5	229.1	26,900	37.0	249.9	23,000	46.3	261.1	19,200							155
160							18.5	216.4	25,700	33.2	242.8	22,000	43.2	256.1	18,300	51.4	262.8	14,700				160
170										23.9	224.4	20,000	36.3	244.0	16,600	45.5	253.9	13,300				170
180										7.7	189.1	18,200	28.0	228.2	15,100	38.9	242.9	12,000	47.4	249.8	8,900	180
190													16.4	203.6	13,700	31.3	228.7	10,800	41.0	239.5	8,000	190
200																21.3	208.4	9,700	33.8	226.5	7,100	200
210																			24.8	208.6	6,200	210
220																			9.9	176.6	5,400	220

# Manitowoc Cranes, Inc.

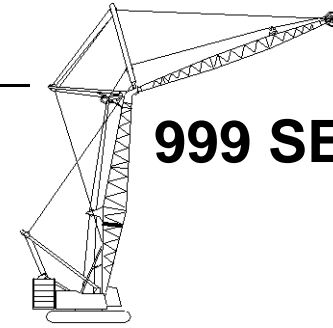
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	74.8	313.0	46,200 *b																			50
55	72.6	311.5	45,400 *																			55
60	70.5	309.8	44,600 *																			60
65	68.3	307.9	43,100 *																			65
70	66.1	305.8	41,600 *																			70
75	63.8	303.5	40,100 *	70.4	308.4	44,700 *																75
80	61.5	300.9	38,600 *	68.2	306.5	43,300 *																80
85	59.1	298.1	37,200 *	66.0	304.4	41,900 *																85
90	56.7	294.9	35,800 *	63.7	302.0	40,500 *	67.6	304.6	42,500 *													90
95	54.2	291.5	34,500 *	61.4	299.4	39,100 *	65.4	302.4	41,300 *													95
100	51.7	287.7	33,200 *	59.0	296.6	37,700 *	63.1	300.0	40,100 *													100
105	49.0	283.6	32,000 *	56.6	293.4	36,400 *	60.8	297.3	38,800 *													105
110	46.2	279.0	30,700 *	54.1	290.0	35,000 *	58.4	294.4	37,500 *													110
115	43.3	274.0	29,600 *	51.6	286.2	33,800 *	56.0	291.2	36,200 *	62.9	296.3	34,500										115
120	40.3	268.4	28,500 *	48.9	282.0	32,500 *	53.5	287.6	34,900 *	60.6	293.6	32,600										120
125	37.0	262.1	27,500 *	46.1	277.4	31,300 *	50.9	283.8	33,600 *	58.2	290.6	30,800										125
130	33.4	255.0	26,500 *	43.2	272.4	30,100 *	48.2	279.5	32,400 *	55.7	287.4	29,100										130
135	29.5	246.9	25,600 *	40.1	266.8	29,000 *	45.4	274.8	31,200 *	53.2	283.8	27,600										135
140	25.1	237.2	24,700 *	36.8	260.5	27,900 *	42.5	269.6	30,000 *	50.6	279.9	26,200	57.7	285.4	21,900							140
145	19.7	225.0	23,900 *	33.3	253.3	26,900 *	39.3	263.9	29,000 *	47.9	275.6	24,900	55.3	282.1	20,700							145
150	12.2	207.6	23,200 *	29.3	245.1	26,000 *	36.0	257.4	27,800	45.1	270.9	23,700	52.7	278.5	19,700							150
155				24.8	235.3	25,100 *	32.4	250.0	26,500	42.1	265.6	22,600	50.1	274.5	18,700							155
160				19.4	223.0	24,300 *	28.3	241.5	25,300	39.0	259.8	21,500	47.4	270.1	17,800							160
170							17.8	218.0	23,100	31.9	245.7	19,600	41.6	259.9	16,100	49.4	267.5	12,700				170
180										23.0	226.5	17,800	35.0	247.3	14,600	43.8	258.0	11,400				180
190										7.4	189.8	16,200	27.0	230.6	13,300	37.5	246.4	10,300	45.5	254.1	7,400	190
200													15.8	205.1	12,000	30.1	231.4	9,200	39.5	243.2	6,500	200
210																20.5	210.3	8,300	32.5	229.4	5,700	210
220																			23.8	210.8	4,900	220
230																			9.6	177.4	4,200	230



# Liftcrane Luffing Jib Capacities

New York City Code

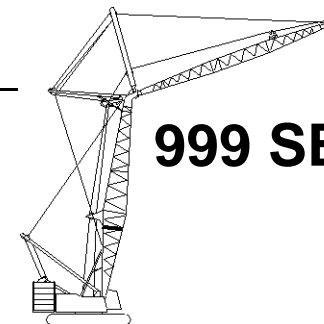
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	75.8	323.3	43,100 *																			50
55	73.8	321.9	42,400 *																			55
60	71.8	320.4	41,200 *																			60
65	69.8	318.7	39,800 *																			65
70	67.7	316.7	38,400 *																			70
75	65.7	314.6	37,000 *																			75
80	63.5	312.2	35,600 *	69.7	317.2	39,900 *																80
85	61.4	309.6	34,300 *	67.6	315.3	38,600 *																85
90	59.2	306.7	32,900 *	65.6	313.1	37,300 *																90
95	56.9	303.6	31,600 *	63.4	310.7	36,000 *	67.1	313.3	37,900 *													95
100	54.6	300.2	30,400 *	61.3	308.1	34,700 *	65.1	311.1	36,700 *													100
105	52.3	296.5	29,200 *	59.1	305.2	33,400 *	62.9	308.7	35,600 *													105
110	49.8	292.5	28,000 *	56.8	302.1	32,100 *	60.8	306.0	34,300 *													110
115	47.3	288.0	26,900 *	54.5	298.7	30,900 *	58.5	303.1	33,100 *													115
120	44.6	283.2	25,800 *	52.1	295.0	29,600 *	56.3	299.9	31,900 *	62.7	305.0	32,400										120
125	41.8	277.9	24,800 *	49.7	290.9	28,500 *	54.0	296.4	30,700 *	60.5	302.3	30,600										125
130	38.9	272.0	23,800 *	47.1	286.5	27,300 *	51.6	292.6	29,500 *	58.3	299.3	29,000										130
135	35.7	265.4	22,800 *	44.5	281.6	26,200 *	49.1	288.4	28,300 *	56.0	296.1	27,500										135
140	32.3	258.0	21,900 *	41.7	276.3	25,200 *	46.5	283.9	27,200 *	53.7	292.6	26,100										140
145	28.5	249.5	21,100 *	38.7	270.3	24,200 *	43.8	278.9	26,100 *	51.3	288.7	24,800	57.9	294.1	20,600							145
150	24.2	239.4	20,300 *	35.5	263.7	23,200 *	41.0	273.4	25,100 *	48.8	284.5	23,600	55.6	290.8	19,500							150
155	19.0	226.7	19,600 *	32.1	256.3	22,300 *	38.0	267.4	24,100 *	46.2	280.0	22,400	53.3	287.2	18,600							155
160	11.8	208.6	19,000 *	28.3	247.7	21,400 *	34.7	260.6	23,100 *	43.5	274.9	21,400	50.8	283.3	17,600							160
170				18.7	224.7	19,900 *	27.3	243.9	21,400 *	37.6	263.2	19,500	45.7	274.4	16,000	52.6	280.3	12,600				170
180							17.2	219.5	19,900 *	30.8	248.5	17,800	40.1	263.7	14,500	47.6	272.0	11,300				180
190										22.3	228.5	16,200	33.7	250.4	13,200	42.2	262.0	10,100				190
200										7.2	190.4	14,800	26.1	233.0	12,000	36.2	249.7	9,100	43.9	258.2	6,400	200
210													15.2	206.4	10,800	29.1	234.1	8,200	38.1	246.7	5,600	210
220																19.8	212.0	7,300	31.4	232.3	4,900	220
230																			23.0	212.8	4,200	230



# Manitowoc Cranes, Inc.

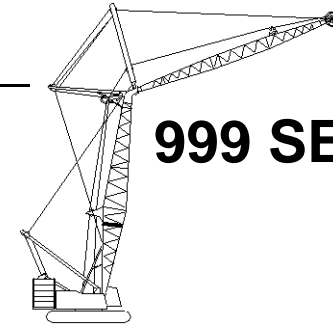
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	74.8	332.3	39,300 *																			55
60	73.0	330.9	37,900 *																			60
65	71.1	329.3	36,500 *																			65
70	69.2	327.5	35,200 *																			70
75	67.3	325.5	33,800 *																			75
80	65.3	323.3	32,500 *	71.0	327.8	36,500 *																80
85	63.3	320.9	31,200 *	69.1	326.0	35,200 *																85
90	61.3	318.2	29,900 *	67.2	324.0	34,000 *																90
95	59.2	315.4	28,700 *	65.2	321.8	32,700 *																95
100	57.1	312.3	27,400 *	63.2	319.4	31,500 *	66.7	322.1	33,400 *													100
105	55.0	308.9	26,300 *	61.2	316.8	30,200 *	64.7	319.8	32,200 *													105
110	52.8	305.3	25,100 *	59.1	313.9	29,000 *	62.7	317.3	31,100 *													110
115	50.5	301.3	24,000 *	57.0	310.8	27,800 *	60.7	314.6	29,900 *													115
120	48.1	297.0	22,900 *	54.9	307.4	26,600 *	58.6	311.7	28,700 *													120
125	45.7	292.3	21,900 *	52.7	303.7	25,500 *	56.5	308.5	27,600 *	62.5	313.6	30,100										125
130	43.1	287.2	20,900 *	50.4	299.8	24,400 *	54.3	305.1	26,400 *	60.5	310.9	28,400										130
135	40.4	281.6	20,000 *	48.0	295.4	23,300 *	52.1	301.4	25,300 *	58.4	308.0	26,900										135
140	37.6	275.4	19,100 *	45.5	290.7	22,200 *	49.8	297.3	24,200 *	56.3	304.8	25,500										140
145	34.5	268.6	18,200 *	43.0	285.6	21,200 *	47.4	292.9	23,100 *	54.1	301.3	24,300										145
150	31.2	260.8	17,400 *	40.3	280.0	20,300 *	44.9	288.1	22,100 *	51.9	297.5	23,100	58.0	302.8	19,000							150
155	27.6	252.0	16,700 *	37.4	273.8	19,400 *	42.3	282.9	21,100 *	49.5	293.4	21,900	55.9	299.5	18,000							155
160	23.4	241.5	16,000 *	34.4	266.9	18,500 *	39.6	277.1	20,200 *	47.1	289.0	20,900	53.7	296.0	17,100							160
170	11.4	209.6	14,800 *	27.4	250.2	16,900 *	33.6	263.6	18,400 *	42.0	278.8	19,000	49.1	288.0	15,400							170
180				18.1	226.3	15,500 *	26.4	246.3	16,800 *	36.4	266.6	17,300	44.2	278.6	14,000	50.8	285.2	10,700				180
190							16.7	221.0	15,500 *	29.8	251.2	15,800	38.8	267.2	12,700	46.0	276.3	9,600				190
200										21.5	230.4	14,400	32.6	253.3	11,500	40.8	265.7	8,600	47.5	272.2	5,800	200
210										6.9	191.0	13,100	25.2	235.2	10,400	35.0	252.9	7,700	42.5	262.2	5,000	210
220													14.7	207.7	9,400	28.1	236.6	6,800	36.8	250.1	4,300	220
230																19.2	213.8	6,000				230



# Liftcrane Luffing Jib Capacities

New York City Code

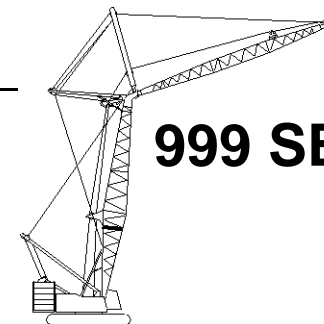
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 170 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	75.8	342.7	35,600 *																55
60	74.0	341.3	35,000 *																60
65	72.3	339.8	33,700 *																65
70	70.5	338.1	32,400 *																70
75	68.7	336.2	31,200 *																75
80	66.9	334.2	29,900 *																80
85	65.0	332.0	28,700 *	70.4	336.7	32,400 *													85
90	63.1	329.5	27,400 *	68.6	334.8	31,200 *													90
95	61.2	326.9	26,300 *	66.8	332.7	30,000 *													95
100	59.3	324.0	25,100 *	64.9	330.5	28,800 *													100
105	57.3	321.0	23,900 *	63.0	328.1	27,700 *	66.3	330.8	29,500 *										105
110	55.3	317.6	22,800 *	61.1	325.4	26,500 *	64.5	328.5	28,400 *										110
115	53.2	314.0	21,800 *	59.2	322.5	25,400 *	62.6	326.0	27,300 *										115
120	51.1	310.1	20,700 *	57.2	319.5	24,200 *	60.7	323.3	26,200 *										120
125	48.9	305.9	19,800 *	55.2	316.1	23,100 *	58.7	320.4	25,100 *										125
130	46.6	301.4	18,800 *	53.1	312.5	22,100 *	56.7	317.2	24,000 *	62.4	322.3	26,700 *							130
135	44.2	296.5	17,900 *	51.0	308.6	21,000 *	54.7	313.8	22,900 *	60.5	319.6	25,700 *							135
140	41.8	291.1	17,000 *	48.8	304.4	20,000 *	52.6	310.1	21,900 *	58.5	316.6	24,700 *							140
145	39.2	285.2	16,200 *	46.5	299.8	19,100 *	50.4	306.2	20,900 *	56.5	313.5	23,800 *							145
150	36.4	278.8	15,400 *	44.1	294.9	18,100 *	48.2	301.9	19,900 *	54.5	310.0	22,700 *							150
155	33.5	271.6	14,600 *	41.6	289.5	17,200 *	45.9	297.2	18,900 *	52.4	306.3	21,600 *							155
160	30.3	263.6	13,900 *	39.0	283.6	16,400 *	43.5	292.2	18,000 *	50.2	302.3	20,500 *	56.1	308.2	16,700				160
170	22.7	243.5	12,400 *	33.3	269.9	14,800 *	38.4	280.6	16,300 *	45.7	293.3	18,700 *	52.0	300.9	15,100				170
180	11.1	210.6	10,900 *	26.6	252.6	13,400 *	32.6	266.6	14,700 *	40.7	282.6	17,000 *	47.5	292.5	13,600				180
190				17.6	227.9	11,700 *	25.6	248.6	13,200 *	35.3	269.8	15,500 *	42.8	282.5	12,300	49.2	289.9	9,200	190
200							16.2	222.5	11,500 *	28.9	253.9	14,000 *	37.6	270.7	11,100	44.6	280.5	8,200	200
210										20.9	232.3	12,300 *	31.6	256.2	10,100	39.5	269.4	7,300	210
220										6.7	191.6	10,800 *	24.5	237.4	9,100	33.9	256.0	6,500	220
230													14.3	209.0	8,200	27.3	239.1	5,700	230
240																18.6	215.4	5,000	240

# Manitowoc Cranes, Inc.

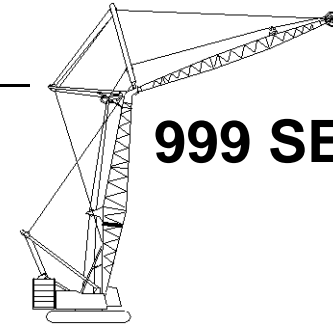
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	58.6	247.6	87,600 *b																			50
55	53.7	244.3	85,100 *b																			55
60	48.4	240.2	79,500 *b																			60
65	42.7	235.3	74,100 *	59.2	246.6	87,700 *b																65
70	36.2	229.2	68,500 *	54.3	243.3	81,100 *b																70
75	28.6	221.4	63,100 *	49.1	239.4	74,900 *b	58.5	244.7	81,100 *b													75
80	18.3	209.8	56,300 *	43.4	234.6	69,400 *	53.6	241.3	75,300 *b													80
85				37.1	228.7	64,700 *	48.3	237.2	69,900 b													85
90				29.7	221.1	60,500 *	42.6	232.3	65,200	58.8	241.2	59,800 b										90
95				19.9	210.3	56,700 *	36.1	226.2	61,000	53.9	237.9	56,000 b										95
100							28.5	218.3	57,300	48.7	233.9	52,600 b										100
105							18.1	206.7	53,900	42.9	229.0	49,500										105
110										36.5	223.0	46,700	53.8	232.9	42,500 b							110
115										29.0	215.3	44,200	48.6	228.9	40,300							115
120										18.9	204.0	41,900	42.8	224.0	38,200							120
125													36.4	218.0	36,300							125
130													28.8	210.2	34,500	47.9	222.2	31,200				130
135													18.7	198.8	32,800	42.2	217.2	29,700				135
140																35.6	211.0	28,300				140
145																27.9	203.0	27,000	46.7	213.7	24,200	145
150																17.1	190.9	25,800	40.7	208.5	23,100	150
155																			34.0	201.9	22,100	155
160																			25.7	193.2	21,100	160



# Liftcrane Luffing Jib Capacities

New York City Code

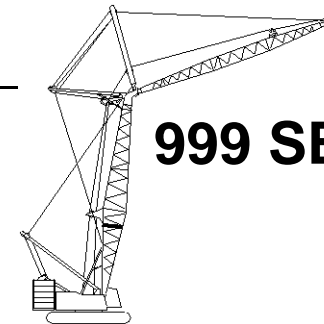
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	62.9	259.1	81,000 *b																			50
55	58.8	256.3	79,100 *b																			55
60	54.5	253.0	75,100 *																			60
65	50.0	249.1	70,400 *	63.4	258.0	83,800 *b																65
70	45.1	244.5	65,900 *	59.3	255.2	80,600 *b																70
75	39.8	239.1	61,700 *	55.0	252.0	74,400 *b	62.8	256.1	71,200 b													75
80	33.8	232.4	57,700 *	50.6	248.2	69,000 *	58.7	253.3	65,700 b													80
85	26.7	223.8	54,000 *	45.7	243.8	64,200 *	54.4	250.0	60,800													85
90	17.1	211.4	49,300 *	40.5	238.4	60,000 *	49.9	246.1	56,500													90
95				34.6	231.9	56,300 *	45.0	241.6	52,800	59.0	249.9	46,000 b										95
100				27.7	223.6	53,000 *	39.7	236.1	49,400	54.7	246.6	43,000										100
105				18.6	211.9	49,900 *	33.7	229.4	46,400	50.2	242.8	40,400										105
110							26.6	220.8	43,600	45.3	238.2	38,000										110
115							16.9	208.3	41,100	40.0	232.8	35,800	54.6	241.7	30,500							115
120										34.1	226.2	33,800	50.1	237.8	28,700							120
125										27.1	217.8	32,000	45.2	233.3	27,200							125
130										17.6	205.6	30,200	40.0	227.8	25,700							130
135													34.0	221.2	24,300	49.6	231.1	20,000				135
140													26.9	212.7	23,100	44.7	226.5	18,900				140
145													17.4	200.4	21,800	39.3	220.9	17,900				145
150																33.3	214.1	17,000				150
155																26.0	205.4	16,100	43.5	217.9	12,600	155
160																16.0	192.3	15,200	38.0	212.1	11,900	160
170																			24.1	195.4	10,600	170

# Manitowoc Cranes, Inc.

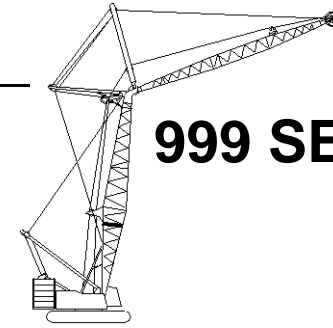
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	66.1	270.2	74,100 *b																			50
55	62.6	267.8	71,500 *b																			55
60	58.9	265.0	69,000 *																			60
65	55.1	261.7	66,600 *	66.5	269.0	75,900 *b																65
70	51.1	258.0	62,800 *	63.0	266.7	73,400 *b																70
75	46.9	253.6	59,000 *	59.4	263.9	71,100 *	66.1	267.2	70,900 b													75
80	42.4	248.6	55,400 *	55.6	260.7	68,600 *	62.5	264.8	65,300 b													80
85	37.4	242.6	52,000 *	51.7	257.0	63,900 *	58.9	262.0	60,500													85
90	31.8	235.3	48,900 *	47.5	252.8	59,700 *	55.1	258.7	56,200													90
95	25.1	226.1	46,000 *	43.0	247.8	56,000 *	51.1	255.0	52,500	62.7	261.3	45,600 b										95
100	16.1	212.8	43,800 *	38.1	242.0	52,700 *	46.9	250.6	49,200	59.1	258.6	42,700										100
105				32.6	234.9	49,700 *	42.3	245.6	46,200	55.3	255.3	40,000										105
110				26.1	226.0	46,900	37.4	239.6	43,500	51.3	251.6	37,700										110
115				17.5	213.5	44,200	31.8	232.3	41,000	47.1	247.3	35,500										115
120							25.1	223.1	38,700	42.6	242.3	33,500	55.2	250.4	28,400							120
125							16.0	209.7	36,600	37.7	236.4	31,700	51.3	246.6	26,800							125
130										32.1	229.2	30,100	47.1	242.3	25,400							130
135										25.5	220.1	28,500	42.5	237.3	24,000							135
140										16.6	207.1	27,000	37.6	231.3	22,800	50.8	240.0	18,600				140
145													32.0	224.1	21,600	46.6	235.6	17,600				145
150													25.4	215.0	20,500	42.0	230.5	16,700				150
155													16.4	201.9	19,500	37.0	224.4	15,800				155
160																31.3	217.0	15,000	45.5	227.1	11,500	160
170																15.1	193.7	13,500	35.7	215.4	10,300	170
180																			22.7	197.5	9,100	180



# Liftcrane Luffing Jib Capacities

New York City Code

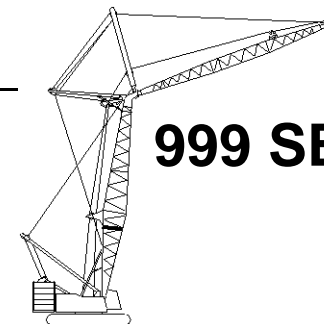
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	71.7	282.8	68,800 *b																			45
50	68.6	281.0	68,500 *b																			50
55	65.5	278.9	66,600 *b																			55
60	62.3	276.4	64,100 *																			60
65	59.0	273.6	61,800 *	69.0	279.8	69,600 *b																65
70	55.6	270.4	59,500 *	65.9	277.7	68,100 *b																70
75	52.1	266.8	56,200 *	62.7	275.3	65,800 *																75
80	48.3	262.6	53,000 *	59.4	272.6	63,600 *	65.5	275.9	64,800 b													80
85	44.4	257.8	49,900 *	56.1	269.4	61,400 *	62.3	273.5	59,900													85
90	40.1	252.3	47,000 *	52.5	265.8	59,200 *	59.0	270.6	55,700													90
95	35.4	245.9	44,300 *	48.8	261.7	55,500 *	55.6	267.4	52,000													95
100	30.2	238.1	41,800 *	44.9	257.0	52,200 *	52.0	263.8	48,700	62.5	270.0	42,100										100
105	23.8	228.3	39,500 *	40.7	251.6	49,200 *	48.3	259.6	45,700	59.2	267.2	39,500										105
110	15.3	214.2	37,800 *	36.1	245.3	46,500 *	44.3	254.8	43,000	55.8	264.0	37,100										110
115				30.9	237.8	43,900	40.1	249.3	40,600	52.2	260.4	35,000										115
120				24.7	228.3	41,500	35.4	242.9	38,400	48.5	256.3	33,000										120
125				16.6	215.0	39,300	30.1	235.1	36,300	44.6	251.5	31,200	55.7	259.1	26,200							125
130							23.8	225.2	34,400	40.3	246.1	29,600	52.2	255.4	24,800							130
135							15.1	211.1	32,600	35.7	239.7	28,100	48.5	251.3	23,500							135
140										30.4	232.0	26,600	44.5	246.5	22,300							140
145										24.2	222.3	25,300	40.3	241.1	21,100	51.8	248.8	17,000				145
150										15.8	208.5	24,000	35.6	234.6	20,100	48.0	244.6	16,100				150
155													30.3	226.9	19,100	44.0	239.8	15,300				155
160													24.0	217.2	18,100	39.7	234.2	14,500				160
170																29.7	219.8	13,000	43.1	231.1	9,700	170
180																14.3	195.0	11,600	33.8	218.5	8,600	180
190																			21.5	199.5	7,600	190

# Manitowoc Cranes, Inc.

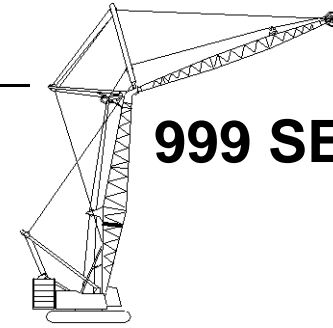
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	73.4	293.3	56,300 *b																			45
50	70.6	291.7	55,200 *b																			50
55	67.9	289.8	54,200 *b																			55
60	65.0	287.6	53,200 *																			60
65	62.1	285.1	52,300 *	71.0	290.5	56,200 *b																65
70	59.1	282.3	51,500 *	68.2	288.6	55,600 *b																70
75	56.0	279.1	50,600 *	65.4	286.5	54,900 *																75
80	52.8	275.5	49,200 *	62.5	284.0	54,200 *	67.8	286.8	54,900 *b													80
85	49.5	271.5	47,000 *	59.5	281.2	53,600 *	65.0	284.6	54,500 *													85
90	46.0	267.0	44,500 *	56.4	278.1	52,100 *	62.1	282.1	54,100 *													90
95	42.2	261.8	42,100 *	53.2	274.6	50,400 *	59.1	279.3	51,900													95
100	38.2	255.9	39,900 *	49.9	270.6	48,800 *	56.0	276.1	48,600													100
105	33.7	249.0	37,800 *	46.4	266.1	47,300 *	52.8	272.5	45,600	62.2	278.7	39,400										105
110	28.7	240.7	35,900 *	42.7	261.1	45,900 *	49.4	268.5	43,000	59.3	275.9	37,000										110
115	22.7	230.4	34,200 *	38.7	255.3	44,000	45.9	264.0	40,600	56.2	272.7	34,900										115
120	14.6	215.5	33,000 *	34.3	248.5	41,600	42.2	258.8	38,300	53.0	269.2	33,000										120
125				29.4	240.5	39,400	38.1	252.9	36,300	49.6	265.2	31,200										125
130				23.6	230.4	37,400	33.7	246.0	34,500	46.1	260.6	29,600	56.1	267.8	24,700							130
135				15.8	216.5	35,500	28.7	237.7	32,700	42.4	255.5	28,100	52.9	264.2	23,400							135
140							22.6	227.3	31,100	38.4	249.6	26,700	49.6	260.2	22,200							140
145							14.4	212.4	29,600	34.0	242.8	25,400	46.1	255.7	21,100							145
150										29.0	234.6	24,100	42.3	250.5	20,000	52.5	257.6	16,000				150
155										23.0	224.4	23,000	38.3	244.6	19,100	49.2	253.5	15,200				155
160										15.0	209.9	21,900	33.9	237.8	18,100	45.7	248.9	14,400				160
170													22.9	219.3	16,400	37.8	237.7	13,000				170
180																28.3	222.3	11,700	41.0	235.0	8,600	180
190																13.7	196.2	10,500	32.2	221.5	7,600	190
200																		20.5	201.3	6,700		200



# Liftcrane Luffing Jib Capacities

New York City Code

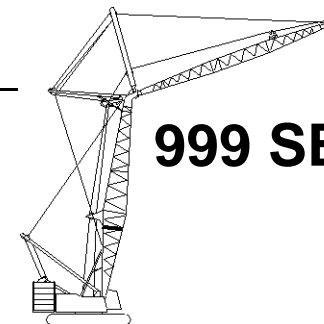
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
45	74.8	303.7	52,800 *b																			45
50	72.3	302.2	51,900 *b																			50
55	69.8	300.5	51,000 *																			55
60	67.2	298.5	50,200 *																			60
65	64.6	296.3	49,400 *																			65
70	61.9	293.8	48,600 *	70.1	299.3	51,900 *																70
75	59.2	290.9	47,100 *	67.5	297.4	51,300 *																75
80	56.4	287.8	45,500 *	64.9	295.2	50,700 *																80
85	53.4	284.3	43,900 *	62.3	292.7	49,700 *	67.2	295.6	50,700 *													85
90	50.4	280.4	42,400 *	59.5	289.9	48,200 *	64.6	293.3	50,300 *													90
95	47.2	276.0	40,300 *	56.7	286.8	46,600 *	61.9	290.8	49,400 *													95
100	43.9	271.1	38,300 *	53.8	283.3	44,900 *	59.2	288.0	48,000 *													100
105	40.3	265.6	36,400 *	50.8	279.5	43,400 *	56.3	284.8	45,200 *													105
110	36.5	259.3	34,600 *	47.7	275.1	42,000 *	53.4	281.3	42,500 *	62.1	287.4	36,500 *										110
115	32.3	251.9	32,900 *	44.3	270.3	40,600 *	50.4	277.4	40,100 *	59.3	284.6	34,400 *										115
120	27.5	243.2	31,300 *	40.8	264.9	39,300 *	47.2	273.0	37,900 *	56.5	281.4	32,400 *										120
125	21.7	232.3	29,900 *	37.0	258.7	38,000 *	43.9	268.1	35,900 *	53.6	277.9	30,700 *										125
130	13.9	216.8	28,900 *	32.8	251.5	36,900 *	40.3	262.5	34,000 *	50.6	274.0	29,000 *										130
135				28.1	243.0	35,200 *	36.4	256.2	32,300 *	47.4	269.7	27,500 *	56.4	276.5	22,800 *							135
140				22.5	232.5	33,500 *	32.2	248.9	30,800 *	44.1	264.8	26,200 *	53.5	272.9	21,600 *							140
145				15.1	217.8	31,900 *	27.4	240.2	29,300 *	40.5	259.3	24,900 *	50.5	269.0	20,500 *							145
150							21.7	229.2	27,900 *	36.7	253.0	23,700 *	47.3	264.7	19,500 *							150
155							13.8	213.6	26,600 *	32.5	245.8	22,600 *	44.0	259.8	18,500 *							155
160										27.7	237.1	21,500 *	40.4	254.3	17,600 *	50.2	262.4	13,800 *				160
170										14.4	211.2	19,500 *	32.4	240.7	16,000 *	43.6	253.0	12,400 *				170
180													21.9	221.2	14,500 *	36.2	241.1	11,200 *	46.2	249.4	8,000 *	180
190																27.0	224.8	10,100 *	39.2	238.6	7,100 *	190
200																13.1	197.4	9,000 *	30.8	224.3	6,200 *	200
210																			19.6	203.1	5,400 *	210

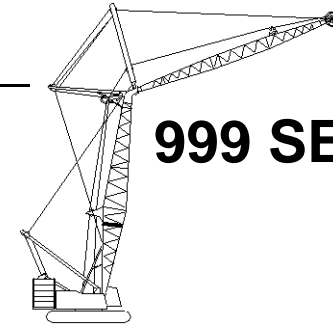




# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	76.0	314.0	49,500 *b																			45
50	73.7	312.7	48,700 *b																			50
55	71.4	311.1	47,900 *																			55
60	69.1	309.3	47,100 *																			60
65	66.7	307.3	46,400 *																			65
70	64.3	305.0	44,900 *																			70
75	61.8	302.4	43,400 *	69.4	308.1	47,800 *																75
80	59.2	299.6	42,000 *	67.0	306.1	47,100 *																80
85	56.6	296.5	40,600 *	64.6	303.9	45,700 *																85
90	54.0	293.0	39,200 *	62.1	301.3	44,300 *	66.6	304.3	46,600 *													90
95	51.2	289.2	37,800 *	59.6	298.6	42,900 *	64.2	302.0	45,300 *													95
100	48.3	285.0	36,500 *	57.0	295.5	41,500 *	61.8	299.5	44,100 *													100
105	45.3	280.3	34,900 *	54.3	292.0	40,100 *	59.2	296.6	42,800 *													105
110	42.1	275.0	33,300 *	51.6	288.3	38,800 *	56.6	293.5	41,400 *													110
115	38.7	269.1	31,700 *	48.7	284.1	37,500 *	53.9	290.0	39,800	61.9	296.0	34,000										115
120	35.0	262.5	30,200 *	45.7	279.5	36,200 *	51.2	286.2	37,600	59.4	293.2	32,000										120
125	31.0	254.8	28,800 *	42.5	274.3	35,000 *	48.3	282.0	35,600	56.8	290.1	30,300										125
130	26.4	245.6	27,600 *	39.1	268.5	33,800 *	45.2	277.3	33,700	54.1	286.7	28,700										130
135	20.9	234.2	26,400 *	35.5	262.0	32,800 *	42.1	272.0	32,000	51.3	282.8	27,200										135
140	13.4	218.0	25,600 *	31.5	254.4	31,700 *	38.6	266.1	30,500	48.4	278.6	25,800	56.7	285.1	21,300							140
145				27.0	245.5	30,800 *	35.0	259.5	29,000	45.4	274.0	24,500	54.0	281.7	20,200							145
150				21.6	234.4	29,900 *	30.9	251.7	27,700	42.2	268.7	23,400	51.3	277.9	19,100							150
155				14.6	219.1	28,800	26.3	242.6	26,400	38.9	262.9	22,200	48.4	273.6	18,200							155
160							20.8	231.1	25,200	35.2	256.3	21,200	45.4	269.0	17,300							160
170										26.6	239.6	19,300	38.8	257.9	15,600	48.1	267.0	12,100				170
180										13.8	212.4	17,600	31.1	243.6	14,200	41.8	256.9	10,800				180
190													21.1	223.1	12,900	34.7	244.2	9,700	44.3	253.6	6,700	190
200																26.0	227.1	8,700	37.6	242.1	5,900	200
210																12.6	198.5	7,800	29.6	227.0	5,100	210
220																			18.8	204.8	4,400	220



# Liftcrane Luffing Jib Capacities

New York City Code

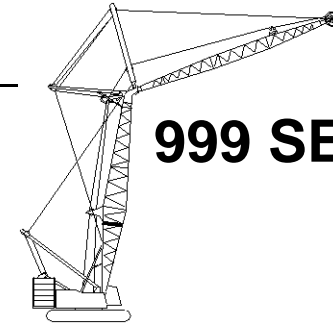
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 140 Ft. Jib

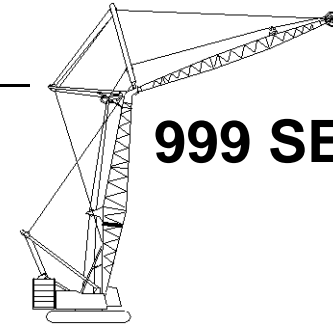
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	74.9	323.0	45,400 *b																			50
55	72.8	321.6	44,700 *																			55
60	70.6	319.9	44,000 *																			60
65	68.4	318.1	42,800 *																			65
70	66.2	316.0	41,300 *																			70
75	64.0	313.7	39,900 *	70.9	318.7	44,300 *																75
80	61.7	311.1	38,500 *	68.7	316.9	43,200 *																80
85	59.3	308.3	37,100 *	66.5	314.8	41,900 *																85
90	56.9	305.2	35,800 *	64.2	312.5	40,600 *																90
95	54.4	301.7	34,500 *	62.0	310.0	39,300 *	66.2	313.0	41,400 *													95
100	51.9	298.0	33,200 *	59.6	307.2	37,900 *	63.9	310.7	40,200 *													100
105	49.2	293.9	32,000 *	57.2	304.1	36,600 *	61.6	308.1	39,000 *													105
110	46.4	289.3	30,800 *	54.7	300.8	35,300 *	59.3	305.3	37,800 *													110
115	43.5	284.3	29,700 *	52.2	297.1	34,000 *	56.9	302.2	36,500 *													115
120	40.5	278.8	28,600 *	49.5	293.0	32,800 *	54.4	298.8	35,200 *	61.8	304.7	31,500										120
125	37.2	272.6	27,500 *	46.8	288.5	31,600 *	51.8	295.0	34,000 *	59.4	301.9	29,700										125
130	33.7	265.6	26,600 *	43.9	283.6	30,400 *	49.2	290.9	32,800 *	57.0	298.8	28,100										130
135	29.8	257.5	25,500 *	40.9	278.1	29,300 *	46.4	286.3	31,600 *	54.5	295.4	26,700										135
140	25.4	247.9	24,400 *	37.7	272.0	28,200 *	43.5	281.3	30,000	52.0	291.6	25,300										140
145	20.1	236.0	23,500 *	34.2	265.1	27,200 *	40.5	275.8	28,600	49.3	287.5	24,000	57.0	293.8	19,600							145
150	12.9	219.1	22,800 *	30.3	257.2	26,300 *	37.2	269.6	27,200	46.6	283.0	22,900	54.5	290.4	18,600							150
155				26.0	247.8	25,400 *	33.7	262.5	26,000	43.7	278.1	21,800	51.9	286.7	17,600							155
160				20.9	236.3	24,600 *	29.8	254.4	24,800	40.6	272.5	20,700	49.3	282.6	16,700							160
170							20.0	232.9	22,600	33.9	259.4	18,900	43.6	273.1	15,100	51.6	280.0	11,500				170
180										25.6	241.9	17,200	37.3	261.3	13,700	46.2	271.3	10,300				180
190										13.3	213.6	15,600	29.9	246.3	12,400	40.2	260.7	9,200	42.6	257.6	5,300	190
200													20.3	225.0	11,200	33.4	247.3	8,200	36.1	245.4	4,500	200
210																25.0	229.4	7,300				210
220																12.1	199.6	6,400				220



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	75.9	333.4	42,400 *b																50
55	74.0	332.0	41,800 *																55
60	72.0	330.5	40,900 *																60
65	69.9	328.8	39,600 *																65
70	67.9	326.8	38,200 *																70
75	65.8	324.7	36,800 *																75
80	63.7	322.3	35,500 *	70.2	327.6	39,800 *													80
85	61.5	319.8	34,200 *	68.1	325.7	38,600 *													85
90	59.3	316.9	32,900 *	66.1	323.6	37,400 *													90
95	57.1	313.8	31,600 *	64.0	321.2	36,100 *	67.9	323.9	38,000 *										95
100	54.8	310.4	30,400 *	61.8	318.7	34,800 *	65.8	321.7	36,900 *										100
105	52.4	306.8	29,200 *	59.6	315.9	33,600 *	63.7	319.4	35,700 *										105
110	50.0	302.7	28,100 *	57.4	312.8	32,300 *	61.5	316.8	34,600 *										110
115	47.4	298.4	27,000 *	55.1	309.5	31,100 *	59.3	314.0	33,400 *										115
120	44.8	293.5	25,900 *	52.7	305.8	29,900 *	57.1	310.9	32,200 *										120
125	42.0	288.3	24,900 *	50.3	301.9	28,700 *	54.8	307.5	31,000 *	61.6	313.4	29,600							125
130	39.1	282.4	23,900 *	47.8	297.5	27,600 *	52.4	303.8	29,900 *	59.5	310.5	28,000							130
135	35.9	275.9	22,900 *	45.1	292.8	26,500 *	49.9	299.8	28,700 *	57.2	307.4	26,500							135
140	32.5	268.5	22,000 *	42.4	287.5	25,500 *	47.4	295.4	27,600 *	54.9	304.1	25,200							140
145	28.8	260.1	21,200 *	39.4	281.8	24,500 *	44.8	290.5	26,500 *	52.5	300.4	23,900							145
150	24.5	250.1	20,400 *	36.3	275.3	23,500 *	42.0	285.3	25,500 *	50.1	296.4	22,700	57.2	302.5	18,400				150
155	19.4	237.7	19,700 *	33.0	268.1	22,600 *	39.0	279.4	24,500 *	47.6	292.0	21,600	54.9	299.1	17,500				155
160	12.5	220.2	19,100 *	29.3	259.8	21,700 *	35.9	272.9	23,500 *	44.9	287.2	20,600	52.5	295.4	16,600				160
170				20.1	238.1	20,100 *	28.7	257.1	21,800 *	39.2	276.2	18,700	47.5	287.1	15,000				170
180							19.3	234.6	20,200 *	32.7	262.4	17,100	42.1	277.0	13,600	49.8	284.8	10,100	180
190										24.7	244.1	15,600	36.0	264.7	12,300	44.6	275.5	9,100	190
200										12.9	214.7	14,200	28.9	248.9	11,100	38.8	264.3	8,100	200
210													19.6	226.7	10,100	32.2	250.2	7,200	210
220																24.1	231.6	6,400	220
230																11.7	200.6	5,600	230



# Liftcrane Luffing Jib Capacities

New York City Code

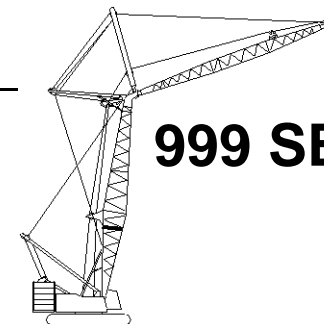
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 160 Ft. Jib

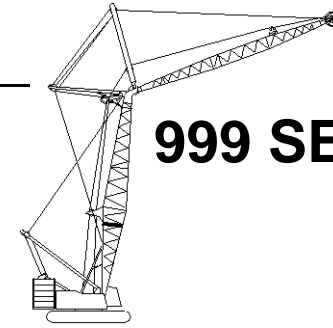
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	75.0	342.4	38,800 *																55
60	73.1	341.0	37,700 *																60
65	71.2	339.4	36,300 *																65
70	69.3	337.6	35,000 *																70
75	67.4	335.6	33,700 *																75
80	65.5	333.4	32,400 *																80
85	63.5	331.0	31,100 *	69.6	336.4	35,200 *													85
90	61.4	328.4	29,900 *	67.7	334.4	34,000 *													90
95	59.4	325.6	28,700 *	65.7	332.3	32,800 *													95
100	57.3	322.5	27,500 *	63.7	329.9	31,600 *	67.4	332.6	33,500 *										100
105	55.1	319.2	26,300 *	61.7	327.3	30,400 *	65.4	330.5	32,500 *										105
110	52.9	315.5	25,200 *	59.7	324.5	29,200 *	63.4	328.1	31,300 *										110
115	50.6	311.6	24,100 *	57.6	321.5	28,100 *	61.4	325.5	30,200 *										115
120	48.3	307.3	23,000 *	55.4	318.2	26,900 *	59.4	322.6	29,100 *										120
125	45.8	302.7	22,000 *	53.2	314.6	25,800 *	57.3	319.5	27,900 *										125
130	43.3	297.6	21,000 *	50.9	310.7	24,600 *	55.1	316.2	26,800 *	61.5	322.0	27,500							130
135	40.6	292.0	20,100 *	48.6	306.5	23,600 *	52.9	312.5	25,700 *	59.5	319.2	26,000							135
140	37.8	285.9	19,200 *	46.2	301.9	22,500 *	50.6	308.6	24,600 *	57.4	316.1	24,600							140
145	34.7	279.1	18,300 *	43.6	296.8	21,500 *	48.3	304.3	23,600 *	55.2	312.8	23,400							145
150	31.5	271.4	17,500 *	41.0	291.3	20,600 *	45.8	299.7	22,500 *	53.0	309.2	22,200							150
155	27.8	262.6	16,800 *	38.1	285.3	19,700 *	43.3	294.6	21,500 *	50.7	305.3	21,100	57.3	311.2	16,900				155
160	23.7	252.3	16,100 *	35.1	278.6	18,800 *	40.6	289.0	20,600 *	48.4	301.0	20,100	55.2	307.8	16,000				160
170	12.1	221.3	14,800 *	28.3	262.4	17,200 *	34.7	276.1	18,800 *	43.4	291.3	18,300	50.7	300.3	14,500				170
180				19.5	239.8	15,700 *	27.8	259.6	17,200 *	37.9	279.7	16,600	45.9	291.4	13,000	52.7	297.6	9,600	180
190							18.7	236.3	15,800 *	31.6	265.3	15,200	40.7	280.8	11,800	48.1	289.3	8,500	190
200										23.9	246.3	13,800	34.8	267.8	10,700	43.1	279.5	7,600	200
210										12.4	215.8	12,600	28.0	251.5	9,600	37.5	267.7	6,700	210
220													19.0	228.4	8,700	31.2	253.1	5,900	220
230																23.4	233.7	5,200	230
240																11.3	201.6	4,400	240



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 180 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	75.9	352.7	34,900 *																55
60	74.1	351.4	34,500 *																60
65	72.4	349.9	33,500 *																65
70	70.6	348.2	32,300 *																70
75	68.8	346.4	31,100 *																75
80	67.0	344.3	29,800 *																80
85	65.1	342.1	28,600 *	70.8	347.0	31,800 *													85
90	63.3	339.7	27,400 *	69.0	345.2	31,300 *													90
95	61.4	337.1	26,300 *	67.2	343.2	30,200 *													95
100	59.4	334.2	25,100 *	65.4	341.0	29,000 *													100
105	57.4	331.2	24,000 *	63.5	338.6	27,800 *	67.0	341.4	29,600 *										105
110	55.4	327.9	22,900 *	61.6	336.0	26,700 *	65.1	339.2	28,700 *										110
115	53.4	324.3	21,800 *	59.7	333.2	25,600 *	63.2	336.7	27,600 *										115
120	51.2	320.4	20,800 *	57.7	330.2	24,500 *	61.3	334.1	26,500 *										120
125	49.0	316.2	19,800 *	55.7	326.9	23,400 *	59.4	331.3	25,500 *										125
130	46.8	311.7	18,900 *	53.6	323.3	22,300 *	57.4	328.2	24,400 *										130
135	44.4	306.8	18,000 *	51.5	319.5	21,300 *	55.4	324.9	23,300 *	61.5	330.7	25,600							135
140	41.9	301.5	17,100 *	49.3	315.4	20,300 *	53.3	321.3	22,300 *	59.5	327.9	24,300							140
145	39.3	295.7	16,300 *	47.1	310.9	19,300 *	51.2	317.4	21,300 *	57.5	324.8	23,000							145
150	36.6	289.3	15,500 *	44.7	306.0	18,400 *	49.0	313.2	20,300 *	55.5	321.5	21,800							150
155	33.7	282.1	14,700 *	42.3	300.8	17,500 *	46.7	308.7	19,300 *	53.4	317.9	20,800							155
160	30.5	274.2	14,000 *	39.7	295.0	16,700 *	44.4	303.8	18,400 *	51.3	314.1	19,800	57.5	319.8	15,600				160
170	23.0	254.3	12,500 *	34.1	281.7	15,100 *	39.3	292.6	16,700 *	46.9	305.4	17,900	53.4	313.0	14,100				170
180	11.7	222.3	11,000 *	27.5	264.9	13,600 *	33.6	279.1	15,100 *	42.0	295.2	16,300	49.1	304.9	12,700				180
190				18.9	241.5	11,900 *	27.0	262.0	13,600 *	36.7	283.0	14,800	44.5	295.5	11,400	51.0	302.4	8,100	190
200							18.2	237.9	11,900 *	30.7	268.0	13,500	39.4	284.4	10,300	46.6	293.7	7,200	200
210										23.2	248.4	12,300	33.8	270.9	9,300	41.7	283.4	6,300	210
220										12.1	216.9	11,200 *	27.1	253.9	8,400	36.4	271.1	5,500	220
230													18.4	230.1	7,500	30.2	255.8	4,800	230
240																22.6	235.7	4,200	240



# Liftcrane Luffing Jib Capacities

New York City Code

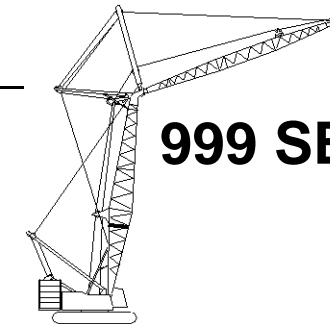
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	58.9	257.8	84,500 *b																			50
55	54.0	254.5	80,200 *b																			55
60	48.8	250.5	75,100 *b																			60
65	43.1	245.7	70,300 *	60.4	257.2	83,000 *b																65
70	36.7	239.7	65,800 *	55.5	254.1	78,600 *b																70
75	29.2	232.0	62,000 *	50.4	250.3	73,600 *b	60.2	255.5	71,000 b													75
80	19.2	220.9	57,500 *	44.9	245.8	68,300 *	55.4	252.4	65,400 b													80
85				38.7	240.2	63,600 *	50.2	248.6	60,600 b													85
90				31.6	233.1	59,500 *	44.7	244.0	56,300	61.3	252.4	48,900 b										90
95				22.6	223.3	55,800 *	38.5	238.4	52,600	56.5	249.4	45,600 b										95
100				6.0	203.7	48,700 *	31.3	231.2	49,200	51.4	245.7	42,700 b										100
105							22.2	221.3	46,200	46.0	241.3	40,000										105
110							4.4	200.2	43,300	40.0	236.0	37,600	57.2	244.7	31,800 b							110
115										33.1	229.2	35,500	52.2	241.2	30,000 b							115
120										24.6	220.1	33,500	46.8	236.9	28,300							120
125										11.3	204.7	31,500	40.9	231.7	26,700							125
130													34.2	225.2	25,200	52.4	234.8	20,600 b				130
135													26.0	216.6	23,900	47.1	230.6	19,400				135
140													14.1	202.9	22,600	41.2	225.4	18,400				140
145																34.5	219.0	17,400				145
150																26.5	210.5	16,500	46.7	222.4	12,700	150
155																14.8	197.3	15,500	40.7	217.2	12,000	155
160																			34.0	210.6	11,300	160
170																			13.6	187.9	9,900	170

# Manitowoc Cranes, Inc.

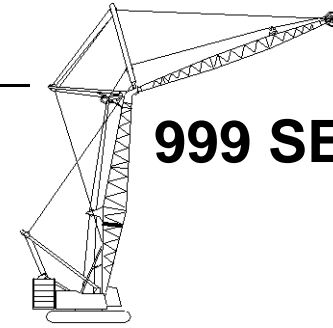
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	63.2	269.3	78,200 *b																			50
55	59.1	266.5	75,400 *b																			55
60	54.8	263.2	71,000 *b																			60
65	50.3	259.4	66,700 *	64.4	268.5	80,400 *b																65
70	45.5	254.9	62,700 *	60.3	265.9	76,400 *b																70
75	40.2	249.5	58,800 *	56.1	262.8	72,600 *b	64.2	266.8	70,400 b													75
80	34.3	242.9	55,200 *	51.7	259.1	67,800 *	60.2	264.2	64,900 b													80
85	27.3	234.5	52,200 *	46.9	254.8	63,100 *	56.0	261.1	60,100 b													85
90	17.9	222.5	49,500 *	41.8	249.7	59,000 *	51.5	257.4	55,900													90
95				36.1	243.6	55,300 *	46.8	253.1	52,200	61.1	261.1	45,000 b										95
100				29.5	235.8	52,100 *	41.6	247.9	48,800	56.9	258.1	42,100 b										100
105				21.1	225.2	49,100 *	35.9	241.7	45,800	52.5	254.5	39,500										105
110				5.6	204.3	43,200 *	29.3	233.9	43,100	47.9	250.4	37,100										110
115							20.8	223.2	40,600	42.8	245.4	35,000	57.6	253.4	29,300 b							115
120							4.1	200.6	38,200	37.3	239.5	33,000	53.2	249.9	27,700							120
125										30.9	232.1	31,200	48.6	245.9	26,100							125
130										23.0	222.2	29,600	43.6	241.0	24,700							130
135										10.5	205.6	27,900	38.2	235.3	23,400							135
140													31.9	228.1	22,200	48.8	239.5	17,800				140
145													24.3	218.8	21,000	43.9	234.8	16,800				145
150													13.2	204.0	19,900	38.4	229.0	16,000				150
155																32.2	222.0	15,100				155
160																24.7	212.8	14,300	43.5	226.5	10,700	160
170																			31.7	213.5	9,500	170
180																			12.7	189.0	8,300	180



# Liftcrane Luffing Jib Capacities

New York City Code

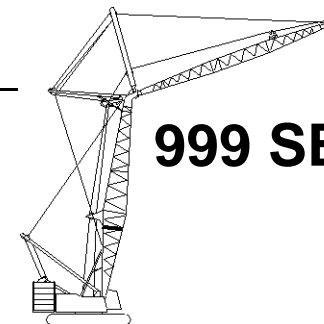
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	66.3	280.3	72,000 *b																			50
55	62.8	277.9	70,600 *b																			55
60	59.2	275.2	67,000 *																			60
65	55.4	271.9	63,300 *	67.4	279.5	73,500 *b																65
70	51.4	268.2	59,700 *	63.9	277.2	73,100 *b																70
75	47.2	263.9	56,200 *	60.3	274.5	70,800 *b	67.3	277.8	70,100 b													75
80	42.7	258.9	52,900 *	56.5	271.5	67,500 *	63.8	275.5	64,500 b													80
85	37.8	253.0	49,800 *	52.6	267.9	62,800 *	60.2	272.9	59,800 b													85
90	32.2	245.9	46,900 *	48.5	263.8	58,700 *	56.4	269.8	55,600													90
95	25.7	236.9	44,500 *	44.1	259.0	55,100 *	52.5	266.2	51,900													95
100	16.9	224.0	42,300 *	39.3	253.4	51,800 *	48.4	262.1	48,600	61.0	269.7	41,700 b										100
105				34.0	246.7	48,800 *	44.0	257.3	45,600	57.3	266.7	39,100										105
110				27.8	238.4	46,200 *	39.2	251.6	42,900	53.4	263.3	36,800										110
115				19.9	227.1	43,700 *	33.8	244.9	40,500	49.3	259.3	34,700										115
120				5.3	204.7	38,800 *	27.6	236.4	38,300	45.0	254.6	32,700	57.8	262.0	27,300							120
125							19.6	225.0	36,200	40.3	249.2	31,000	54.0	258.7	25,800							125
130							3.9	200.9	34,200	35.1	242.7	29,300	50.0	254.7	24,400							130
135										29.1	234.8	27,800	45.7	250.2	23,100							135
140										21.6	224.2	26,400	41.0	244.9	21,900							140
145										9.9	206.5	25,000	35.9	238.6	20,800	50.2	248.4	16,500				145
150													30.1	230.9	19,700	45.9	243.9	15,600				150
155													22.9	220.9	18,700	41.3	238.7	14,800				155
160													12.4	205.2	17,700	36.2	232.4	14,000				160
170																23.3	214.9	12,600	40.9	230.4	9,200	170
180																			29.9	216.3	8,100	180
190																			11.9	190.1	7,100	190



# Manitowoc Cranes, Inc.

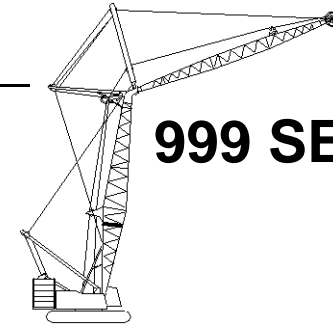
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	68.8	291.1	66,600 *b																			50
55	65.7	289.0	65,700 *b																			55
60	62.5	286.6	62,700 *																			60
65	59.3	283.8	59,600 *	69.8	290.2	67,400 *b																65
70	55.9	280.6	56,600 *	66.7	288.2	67,400 *b																70
75	52.3	277.0	53,500 *	63.5	285.9	65,600 *																75
80	48.6	272.9	50,500 *	60.3	283.2	63,600 *	66.6	286.5	64,000 b													80
85	44.7	268.2	47,700 *	56.9	280.1	61,500 *	63.4	284.2	59,200													85
90	40.4	262.7	45,100 *	53.4	276.7	58,200 *	60.1	281.5	55,000													90
95	35.8	256.4	42,600 *	49.8	272.7	54,600 *	56.8	278.4	51,300													95
100	30.5	248.7	40,200 *	45.9	268.2	51,300 *	53.3	274.9	48,100													100
105	24.3	239.1	38,100 *	41.7	263.0	48,400 *	49.6	271.0	45,100	60.9	278.4	38,500										105
110	16.0	225.5	36,500 *	37.2	256.9	45,700 *	45.7	266.4	42,500	57.6	275.4	36,200										110
115				32.2	249.7	43,300 *	41.6	261.2	40,100	54.1	272.0	34,100										115
120				26.3	240.8	41,100 *	37.1	255.1	37,900	50.5	268.1	32,200										120
125				18.9	228.8	39,000 *	32.0	247.8	35,800	46.6	263.7	30,500										125
130				5.1	205.2	34,800 *	26.1	238.8	34,000	42.6	258.7	28,800	54.6	267.4	23,800							130
135							18.6	226.6	32,200	38.1	252.8	27,400	51.0	263.6	22,500							135
140							3.7	201.3	30,500	33.2	245.8	26,000	47.2	259.3	21,300							140
145										27.6	237.3	24,700	43.2	254.3	20,200							145
150										20.5	226.1	23,500	38.8	248.5	19,200	51.2	257.2	15,000				150
155										9.4	207.4	22,300	34.0	241.8	18,200	47.4	252.9	14,200				155
160													28.5	233.5	17,300	43.4	248.0	13,400				160
170													11.8	206.2	15,600	34.2	235.6	12,100	47.1	244.8	8,500	170
180																22.1	216.9	10,800	38.7	234.0	7,500	180
190																			28.3	218.9	6,600	190
200																			11.3	191.1	5,700	200

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code

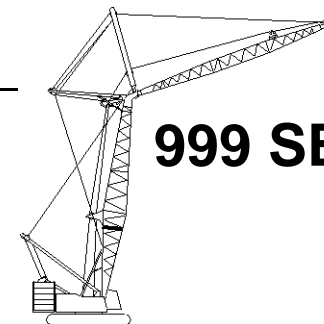
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	70.8	301.8	54,100 *b																			50
55	68.0	299.9	53,200 *b																			55
60	65.2	297.7	52,300 *																			60
65	62.3	295.3	51,400 *																			65
70	59.3	292.5	50,600 *	68.9	299.0	54,500 *b																70
75	56.2	289.3	49,700 *	66.1	296.9	53,900 *																75
80	53.1	285.8	47,300 *	63.2	294.6	53,300 *																80
85	49.7	281.8	45,000 *	60.2	291.9	52,700 *	66.0	295.3	53,500 *													85
90	46.2	277.3	42,700 *	57.2	288.8	52,100 *	63.1	292.9	53,100 *													90
95	42.5	272.2	40,500 *	54.0	285.4	50,600 *	60.1	290.2	51,300													95
100	38.5	266.3	38,400 *	50.7	281.6	49,000 *	57.1	287.1	48,000													100
105	34.1	259.5	36,500 *	47.3	277.2	47,600 *	53.9	283.7	45,100													105
110	29.1	251.4	34,700 *	43.6	272.3	45,900 *	50.6	279.8	42,400	60.8	287.0	36,100										110
115	23.2	241.2	33,100 *	39.7	266.7	43,500 *	47.2	275.5	40,000	57.8	284.1	34,100										115
120	15.3	226.8	31,900 *	35.4	260.2	41,200 *	43.5	270.5	37,800	54.6	280.7	32,200										120
125				30.7	252.5	39,100	39.6	264.9	35,800	51.4	277.0	30,400										125
130				25.1	243.0	37,100	35.3	258.3	34,000	48.0	272.7	28,800										130
135				18.0	230.4	35,300	30.5	250.6	32,300	44.4	267.9	27,300	55.1	276.1	22,400							135
140				4.8	205.6	31,500 *	24.9	241.1	30,700	40.5	262.4	26,000	51.9	272.4	21,300							140
145							17.7	228.2	29,200	36.3	256.1	24,700	48.5	268.2	20,200							145
150							3.5	201.6	27,700	31.6	248.7	23,500	44.9	263.5	19,200							150
155										26.3	239.7	22,400	41.1	258.1	18,200	52.0	266.0	14,100				155
160										19.6	227.8	21,300	37.0	252.0	17,300	48.7	261.9	13,400				160
170													27.1	236.0	15,700	41.3	251.9	12,000				170
180													11.2	207.2	14,200	32.6	238.6	10,800	44.8	249.0	7,500	180
190																21.0	218.8	9,700	36.8	237.4	6,600	190
200																			27.0	221.3	5,800	200
210																			10.8	192.1	5,000	210

# Manitowoc Cranes, Inc.

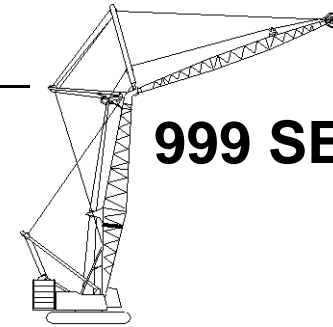
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	72.5	312.3	50,900 *b																			50
55	70.0	310.6	50,100 *b																			55
60	67.4	308.7	49,300 *																			60
65	64.8	306.4	48,500 *																			65
70	62.1	303.9	47,800 *	70.7	309.7	50,900 *b																70
75	59.4	301.1	46,700 *	68.2	307.8	50,400 *																75
80	56.6	298.0	44,700 *	65.6	305.6	49,900 *																80
85	53.7	294.5	42,700 *	62.9	303.2	49,300 *																85
90	50.6	290.6	40,700 *	60.2	300.5	48,200 *	65.5	304.0	49,400 *													90
95	47.5	286.3	38,700 *	57.4	297.5	46,700 *	62.8	301.6	49,100 *													95
100	44.1	281.4	36,800 *	54.5	294.1	45,200 *	60.1	298.8	47,500													100
105	40.6	276.0	35,000 *	51.6	290.4	43,700 *	57.3	295.8	44,600													105
110	36.8	269.7	33,300 *	48.4	286.2	42,300 *	54.4	292.4	41,900													110
115	32.6	262.5	31,800 *	45.2	281.5	40,900 *	51.4	288.6	39,600	60.7	295.7	33,500										115
120	27.8	253.9	30,300 *	41.7	276.2	39,600 *	48.3	284.4	37,400	58.0	292.7	31,600										120
125	22.2	243.2	29,000 *	38.0	270.2	38,300 *	45.0	279.7	35,400	55.1	289.4	29,900										125
130	14.6	228.1	28,000 *	33.9	263.3	36,800	41.6	274.4	33,600	52.1	285.8	28,300										130
135				29.3	255.2	34,900	37.8	268.4	31,900	49.0	281.6	26,800										135
140				24.0	245.2	33,200	33.7	261.4	30,300	45.8	277.1	25,500	55.5	284.8	20,700							140
145				17.2	231.9	31,700	29.2	253.3	28,900	42.4	271.9	24,200	52.6	281.2	19,600							145
150				4.6	206.0	28,600 *	23.8	243.2	27,500	38.7	266.0	23,000	49.5	277.1	18,600							150
155							16.9	229.8	26,200	34.7	259.3	21,900	46.3	272.6	17,700							155
160							3.4	201.9	24,900	30.3	251.5	20,900	42.9	267.5	16,800	52.7	274.8	12,800				160
170										18.7	229.5	19,000	35.3	255.2	15,200	46.5	266.3	11,500				170
180													25.9	238.4	13,800	39.4	255.6	10,300				180
190													10.7	208.2	12,400	31.2	241.4	9,200	42.8	253.0	6,000	190
200																20.1	220.6	8,200	35.2	240.7	5,200	200
210																			25.8	223.7	4,500	210

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code

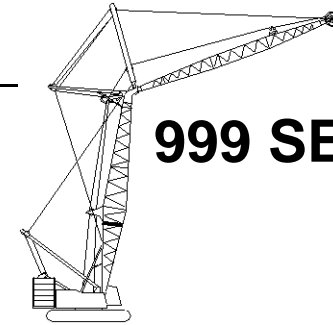
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 130 Ft. Jib

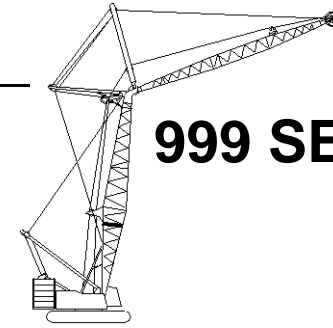
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	73.9	322.8	47,800 *b																			50
55	71.6	321.2	47,000 *																			55
60	69.2	319.4	46,300 *																			60
65	66.8	317.4	45,600 *																			65
70	64.4	315.1	44,600 *																			70
75	62.0	312.6	43,200 *	69.9	318.5	47,000 *																75
80	59.4	309.8	41,800 *	67.6	316.5	46,500 *																80
85	56.8	306.7	40,300 *	65.2	314.4	45,700 *																85
90	54.2	303.3	38,600 *	62.7	311.9	44,300 *	67.5	314.9	45,800 *													90
95	51.4	299.5	36,900 *	60.2	309.2	43,000 *	65.1	312.7	45,300 *													95
100	48.5	295.3	35,300 *	57.6	306.2	41,700 *	62.6	310.2	44,100 *													100
105	45.5	290.6	33,700 *	55.0	302.8	40,300 *	60.1	307.5	42,900 *													105
110	42.3	285.4	32,100 *	52.2	299.2	39,000 *	57.5	304.5	41,600 *													110
115	38.9	279.6	30,600 *	49.4	295.1	37,700 *	54.9	301.1	39,200 *													115
120	35.3	273.0	29,200 *	46.4	290.6	36,500 *	52.1	297.4	37,000 *	60.7	304.4	31,200 *										120
125	31.3	265.3	27,900 *	43.3	285.5	35,300 *	49.3	293.3	35,100 *	58.1	301.4	29,500 *										125
130	26.7	256.3	26,700 *	40.0	279.9	34,100 *	46.3	288.8	33,300 *	55.5	298.1	27,900 *										130
135	21.3	245.1	25,600 *	36.4	273.6	33,000 *	43.2	283.8	31,600 *	52.8	294.5	26,500 *										135
140	14.0	229.4	24,900 *	32.5	266.3	32,000 *	39.9	278.1	30,000 *	49.9	290.5	25,100 *										140
145				28.2	257.7	31,100 *	36.3	271.7	28,600 *	47.0	286.1	23,900 *	55.9	293.5	19,200 *							145
150				23.1	247.3	30,000 *	32.4	264.4	27,300 *	43.9	281.2	22,700 *	53.2	289.9	18,200 *							150
155				16.6	233.4	28,600 *	28.0	255.8	26,000 *	40.6	275.7	21,600 *	50.4	286.0	17,300 *							155
160				4.4	206.4	26,000 *	22.9	245.3	24,800 *	37.1	269.5	20,600 *	47.5	281.6	16,400 *							160
170							3.2	202.2	22,500 *	29.0	254.1	18,700 *	41.1	271.4	14,900 *	50.5	279.7	11,100 *				170
180										18.0	231.1	17,100 *	33.9	258.3	13,500 *	44.5	270.5	9,900 *				180
190													24.9	240.6	12,200 *	37.8	259.1	8,900 *	47.4	267.1	5,600 *	190
200													10.3	209.1	11,000 *	29.9	244.2	7,900 *	41.0	256.8	4,900 *	200
210																19.3	222.4	7,000 *	33.8	243.8	4,200 *	210



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 140 Ft. Jib

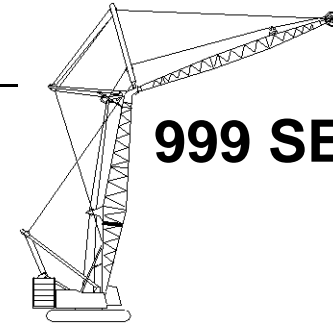
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	75.0	333.1	44,600 *b																50
55	72.9	331.7	43,900 *																55
60	70.8	330.1	43,300 *																60
65	68.6	328.2	42,400 *																65
70	66.4	326.1	41,100 *																70
75	64.1	323.8	39,700 *																75
80	61.8	321.3	38,300 *	69.2	327.3	43,000 *													80
85	59.5	318.5	37,000 *	67.0	325.3	41,800 *													85
90	57.1	315.4	35,700 *	64.8	323.1	40,600 *													90
95	54.6	312.0	34,400 *	62.5	320.6	39,300 *	67.0	323.6	41,300 *										95
100	52.0	308.3	33,200 *	60.2	317.8	38,000 *	64.7	321.4	40,200 *										100
105	49.4	304.2	32,000 *	57.8	314.8	36,800 *	62.4	318.9	39,100 *										105
110	46.6	299.7	30,700 *	55.3	311.5	35,500 *	60.1	316.2	38,000 *										110
115	43.8	294.7	29,400 *	52.8	307.9	34,300 *	57.7	313.1	36,800 *										115
120	40.7	289.2	28,100 *	50.2	303.9	33,000 *	55.3	309.8	35,600 *	63.0	315.7	30,600							120
125	37.5	283.0	26,900 *	47.5	299.6	31,900 *	52.7	306.2	34,400 *	60.6	313.0	28,900							125
130	34.0	276.1	25,800 *	44.6	294.8	30,700 *	50.1	302.2	32,800	58.3	310.1	27,400							130
135	30.1	268.1	24,700 *	41.6	289.4	29,600 *	47.4	297.8	31,100	55.8	306.8	25,900							135
140	25.7	258.7	23,700 *	38.5	283.5	28,500 *	44.5	293.0	29,600	53.3	303.3	24,600							140
145	20.5	246.9	22,800 *	35.0	276.8	27,500 *	41.5	287.6	28,200	50.7	299.4	23,300							145
150	13.5	230.6	22,200 *	31.3	269.1	26,600 *	38.4	281.7	26,800	48.0	295.1	22,200	56.2	302.2	17,600				150
155				27.1	260.2	25,700 *	34.9	274.9	25,600	45.2	290.4	21,100	53.7	298.7	16,700				155
160				22.2	249.3	24,800 *	31.2	267.2	24,400	42.2	285.1	20,100	51.1	294.8	15,900				160
170				4.3	206.8	23,500 *	22.0	247.3	22,300	35.7	272.8	18,300	45.6	285.9	14,300				170
180							3.1	202.4	20,300	28.0	256.7	16,600	39.6	275.0	12,900	48.6	284.3	9,300	180
190										17.3	232.7	15,100	32.6	261.3	11,700	42.8	274.5	8,300	190
200													24.0	242.8	10,600	36.4	262.4	7,400	200
210													9.9	210.0	9,500	28.8	246.8	6,500	210
220																18.6	224.0	5,700	220



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	74.1	342.1	41,100 *																55
60	72.1	340.6	40,400 *																60
65	70.1	338.9	39,200 *																65
70	68.0	337.0	38,000 *																70
75	66.0	334.9	36,700 *																75
80	63.8	332.5	35,400 *	70.7	337.9	39,600 *													80
85	61.7	329.9	34,100 *	68.6	336.1	38,500 *													85
90	59.5	327.1	32,800 *	66.6	334.0	37,300 *													90
95	57.3	324.0	31,600 *	64.5	331.7	36,200 *													95
100	55.0	320.7	30,400 *	62.3	329.2	35,000 *	66.5	332.4	36,900 *										100
105	52.6	317.0	29,200 *	60.2	326.5	33,700 *	64.4	330.1	35,900 *										105
110	50.1	313.0	28,100 *	57.9	323.5	32,500 *	62.3	327.6	34,800 *										110
115	47.6	308.7	27,000 *	55.7	320.2	31,300 *	60.1	324.8	33,700 *										115
120	45.0	303.9	25,900 *	53.3	316.7	30,200 *	57.9	321.8	32,500 *										120
125	42.2	298.6	24,900 *	50.9	312.8	29,000 *	55.6	318.5	31,400 *	62.8	324.4	28,800							125
130	39.3	292.8	23,900 *	48.4	308.5	27,900 *	53.2	314.9	30,300 *	60.6	321.7	27,200							130
135	36.2	286.4	23,000 *	45.8	303.9	26,800 *	50.8	311.0	29,100 *	58.4	318.7	25,800							135
140	32.8	279.1	22,100 *	43.1	298.8	25,800 *	48.3	306.8	28,000 *	56.1	315.5	24,400							140
145	29.1	270.7	21,300 *	40.2	293.1	24,700 *	45.7	302.1	27,000 *	53.8	312.0	23,200							145
150	24.8	260.9	20,500 *	37.1	286.9	23,800 *	43.0	297.0	25,900 *	51.4	308.2	22,100							150
155	19.8	248.7	19,800 *	33.8	279.9	22,900 *	40.1	291.3	24,900 *	48.9	304.0	21,000	56.4	310.9	16,600				155
160	13.1	231.8	19,200 *	30.2	271.9	22,000 *	37.0	285.1	23,900 *	46.3	299.4	20,000	54.1	307.4	15,700				160
170				21.4	251.2	20,400 *	30.1	270.0	22,100 *	40.7	288.9	18,200	49.3	299.5	14,200				170
180				4.1	207.2	19,200 *	21.3	249.2	20,300	34.5	275.9	16,500	44.0	290.0	12,800	51.8	297.3	9,200	180
190							3.0	202.7	18,500	27.0	259.1	15,100	38.2	278.6	11,600	46.8	288.7	8,200	190
200										16.7	234.2	13,800	31.5	264.2	10,500	41.3	278.3	7,300	200
210													23.2	244.9	9,500	35.1	265.7	6,400	210
220													9.6	210.8	8,500	27.8	249.3	5,600	220
230																18.0	225.7	4,900	230

# Manitowoc Cranes, Inc.

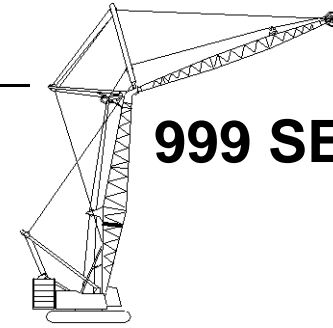
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	75.1	352.5	37,500 *																55
60	73.2	351.1	36,800 *																60
65	71.4	349.5	36,000 *																65
70	69.5	347.7	34,800 *																70
75	67.5	345.7	33,500 *																75
80	65.6	343.6	32,300 *																80
85	63.6	341.2	31,100 *	70.0	346.8	35,200 *													85
90	61.6	338.6	29,800 *	68.1	344.9	34,100 *													90
95	59.5	335.8	28,600 *	66.2	342.8	32,900 *													95
100	57.4	332.7	27,500 *	64.2	340.4	31,800 *													100
105	55.3	329.4	26,300 *	62.2	337.9	30,600 *	66.1	341.1	32,600 *										105
110	53.1	325.8	25,200 *	60.2	335.2	29,400 *	64.1	338.8	31,500 *										110
115	50.8	321.9	24,100 *	58.1	332.2	28,300 *	62.1	336.2	30,400 *										115
120	48.5	317.6	23,100 *	55.9	328.9	27,100 *	60.1	333.5	29,400 *										120
125	46.0	313.0	22,100 *	53.7	325.4	26,000 *	58.0	330.5	28,300 *										125
130	43.5	307.9	21,100 *	51.5	321.6	24,900 *	55.9	327.2	27,200 *	62.6	333.1	26,700							130
135	40.8	302.4	20,200 *	49.2	317.4	23,900 *	53.7	323.7	26,100 *	60.6	330.3	25,200							135
140	38.0	296.3	19,300 *	46.8	312.9	22,800 *	51.4	319.9	25,000 *	58.5	327.4	23,900							140
145	35.0	289.6	18,400 *	44.2	308.0	21,800 *	49.1	315.7	24,000 *	56.4	324.2	22,700							145
150	31.7	282.0	17,600 *	41.6	302.6	20,900 *	46.7	311.2	22,900 *	54.2	320.7	21,500							150
155	28.1	273.3	16,900 *	38.8	296.7	19,900 *	44.2	306.3	21,900 *	51.9	317.0	20,500							155
160	24.0	263.1	16,100 *	35.9	290.2	19,100 *	41.5	300.9	21,000 *	49.6	312.9	19,500	56.7	319.5	15,200				160
170	12.6	232.9	14,900 *	29.2	274.5	17,400 *	35.8	288.4	19,200 *	44.7	303.6	17,700	52.3	312.4	13,600				170
180				20.8	253.1	16,000 *	29.1	272.6	17,500 *	39.4	292.6	16,100	47.6	304.0	12,300				180
190				4.0	207.5	14,800 *	20.6	251.0	16,100 *	33.4	279.0	14,600	42.5	294.0	11,100	50.1	302.0	7,600	190
200							2.9	203.0	14,900 *	26.1	261.5	13,300	36.9	282.0	10,000	45.2	292.9	6,700	200
210										16.2	235.6	12,100	30.5	267.0	9,000	39.9	282.0	5,900	210
220													22.4	246.9	8,100	34.0	268.8	5,100	220
230													9.3	211.7	7,200	26.9	251.8	4,400	230



# Liftcrane Luffing Jib Capacities

New York City Code

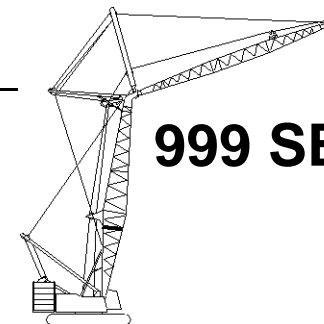
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 190 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	76.0	362.8	34,000 *																55
60	74.3	361.5	33,400 *																60
65	72.5	360.0	32,800 *																65
70	70.7	358.3	32,100 *																70
75	68.9	356.5	30,900 *																75
80	67.1	354.5	29,700 *																80
85	65.3	352.3	28,500 *																85
90	63.4	349.9	27,400 *	69.5	355.6	30,800 *													90
95	61.5	347.3	26,200 *	67.7	353.6	30,200 *													95
100	59.6	344.4	25,100 *	65.8	351.5	29,100 *													100
105	57.6	341.4	24,000 *	64.0	349.1	28,000 *	67.6	352.0	29,000 *										105
110	55.6	338.1	22,900 *	62.1	346.6	26,900 *	65.8	349.8	28,800 *										110
115	53.5	334.5	21,900 *	60.2	343.8	25,800 *	63.9	347.5	27,800 *										115
120	51.4	330.7	20,900 *	58.2	340.8	24,700 *	62.0	344.9	26,800 *										120
125	49.2	326.5	19,900 *	56.2	337.6	23,700 *	60.1	342.1	25,700 *										125
130	46.9	322.0	19,000 *	54.1	334.1	22,600 *	58.1	339.1	24,700 *										130
135	44.6	317.2	18,100 *	52.0	330.4	21,600 *	56.1	335.9	23,700 *	62.4	341.7	24,800							135
140	42.1	311.9	17,200 *	49.9	326.3	20,600 *	54.1	332.4	22,700 *	60.5	339.0	23,500							140
145	39.5	306.1	16,400 *	47.6	321.9	19,600 *	51.9	328.7	21,700 *	58.6	336.1	22,300							145
150	36.8	299.7	15,600 *	45.3	317.2	18,700 *	49.8	324.6	20,700 *	56.6	332.9	21,200							150
155	33.9	292.7	14,800 *	42.9	312.0	17,800 *	47.5	320.2	19,700 *	54.5	329.5	20,100							155
160	30.7	284.8	14,100 *	40.3	306.4	16,900 *	45.2	315.4	18,800 *	52.4	325.8	19,100							160
170	23.3	265.2	12,700 *	34.8	293.4	15,300 *	40.2	304.6	17,000 *	48.0	317.4	17,300	54.8	324.8	13,200				170
180	12.3	234.0	11,100 *	28.3	277.1	13,800 *	34.7	291.5	15,400 *	43.3	307.7	15,700	50.6	317.2	11,900				180
190				20.1	254.9	12,200 *	28.2	275.2	13,900 *	38.2	296.1	14,300	46.1	308.3	10,700	52.9	314.8	7,200	190
200				3.9	207.9	10,700 *	20.0	252.8	12,200 *	32.3	281.9	13,000	41.2	297.8	9,600	48.5	306.6	6,300	200
210							2.8	203.2	10,700 *	25.3	263.8	11,900	35.8	285.3	8,600	43.8	297.0	5,500	210
220										15.7	237.0	10,800	29.5	269.7	7,700	38.7	285.6	4,800	220
230													21.7	248.8	6,900	32.9	271.8	4,100	230
240													9.0	212.5	6,100				240



# Manitowoc Cranes, Inc.

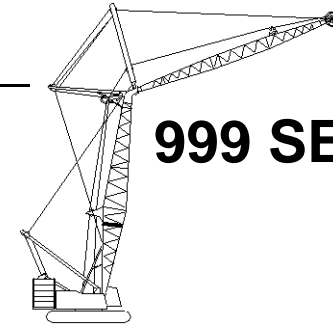
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	59.3	268.0	80,200 *b																			50
55	54.4	264.8	75,600 *b																			55
60	49.2	260.8	71,100 *b																			60
65	43.5	256.1	66,800 *																			65
70	37.2	250.2	62,700 *	56.7	264.8	76,100 *b																70
75	29.8	242.6	59,300 *	51.7	261.2	71,300 *b																75
80	20.0	231.8	55,700 *	46.3	256.9	66,100 *b	57.1	263.4	64,600 b													80
85				40.3	251.6	61,500 *	52.0	259.8	59,800 b													85
90				33.5	244.9	57,500 *	46.6	255.5	55,700 b													90
95				25.1	236.0	53,900 *	40.7	250.3	51,900	59.0	260.7	44,600 b										95
100				12.3	221.2	50,700 *	34.0	243.8	48,600	54.1	257.4	41,700 b										100
105							25.7	235.0	45,600	48.8	253.4	39,100 b										105
110							13.5	221.0	42,800	43.2	248.6	36,800										110
115										36.8	242.6	34,700	55.7	253.0	28,900 b							115
120										29.3	234.9	32,700	50.5	249.3	27,200 b							120
125										19.3	223.8	30,900	45.0	244.8	25,700							125
130													38.9	239.2	24,300							130
135													31.8	232.1	23,000	51.6	243.3	18,300 b				135
140													22.9	222.5	21,800	46.2	238.9	17,300				140
145													7.0	203.7	20,500	40.2	233.6	16,400				145
150																33.4	226.9	15,500				150
155																25.0	218.0	14,700	46.7	231.1	10,800	155
160																12.1	203.1	13,800	40.7	225.8	10,200	160
170																			25.7	210.6	9,000	170



# Liftcrane Luffing Jib Capacities

New York City Code

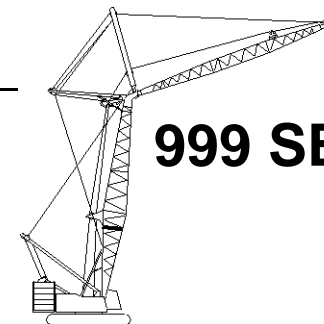
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	63.4	279.4	75,000 *b																			50
55	59.4	276.7	71,100 *b																			55
60	55.1	273.5	67,200 *b																			60
65	50.6	269.7	63,400 *	65.3	279.0	77,400 *b																65
70	45.8	265.2	59,700 *	61.3	276.5	73,800 *b																70
75	40.6	259.9	56,200 *	57.2	273.5	70,200 *b	65.6	277.5	69,600 b													75
80	34.7	253.4	52,900 *	52.8	270.0	65,600 *	61.6	275.0	64,100 b													80
85	27.8	245.2	49,900 *	48.1	265.9	61,100 *	57.4	272.1	59,300 b													85
90	18.7	233.5	47,700 *	43.1	261.0	57,100 *	53.1	268.6	55,200													90
95				37.6	255.1	53,500 *	48.5	264.5	51,500													95
100				31.3	247.8	50,300 *	43.5	259.7	48,200	59.1	269.3	41,100 b										100
105				23.4	238.1	47,400 *	38.0	253.9	45,300	54.8	266.1	38,600 b										105
110				11.5	222.3	44,800 *	31.7	246.7	42,600	50.3	262.3	36,300										110
115							24.1	237.2	40,100	45.5	257.7	34,200										115
120							12.7	222.2	37,800	40.2	252.4	32,300	56.2	261.7	26,600 b							120
125										34.3	245.8	30,500	51.8	258.1	25,100							125
130										27.3	237.4	28,900	47.1	253.8	23,800							130
135										18.1	225.5	27,300	42.0	248.7	22,500							135
140													36.3	242.6	21,300	52.7	252.0	16,700				140
145													29.7	234.9	20,200	48.1	247.9	15,800				145
150													21.4	224.4	19,100	43.1	243.0	14,900				150
155													6.5	204.3	18,000	37.5	237.1	14,100				155
160																31.2	229.8	13,400				160
170																11.3	204.1	11,900				170
180																			38.0	229.4	8,500	180
																			24.1	212.8	7,400	180

# Manitowoc Cranes, Inc.

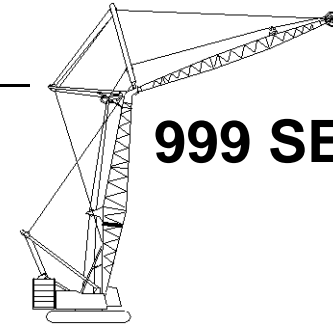
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	66.6	290.5	69,700 *b																			50
55	63.1	288.1	66,800 *b																			55
60	59.4	285.4	63,400 *b																			60
65	55.7	282.2	60,100 *	68.2	289.9	70,800 *b																65
70	51.7	278.5	56,900 *	64.7	287.7	69,600 *b																70
75	47.5	274.3	53,700 *	61.2	285.2	68,300 *b																75
80	43.0	269.3	50,700 *	57.5	282.2	65,100 *	65.0	286.2	63,700 b													80
85	38.2	263.5	47,800 *	53.6	278.8	60,700 *	61.4	283.7	59,000 b													85
90	32.7	256.4	45,200 *	49.5	274.8	56,800 *	57.7	280.7	54,800													90
95	26.2	247.6	42,800 *	45.2	270.2	53,200 *	53.9	277.3	51,200													95
100	17.6	235.1	41,000 *	40.5	264.8	50,000 *	49.8	273.4	47,900	62.9	280.8	40,700 b										100
105				35.4	258.4	47,200 *	45.5	268.9	45,000	59.2	278.0	38,200										105
110				29.4	250.5	44,600 *	40.9	263.5	42,400	55.4	274.8	35,900										110
115				22.1	240.2	42,200 *	35.7	257.2	40,000	51.5	271.1	33,800										115
120				10.8	223.2	40,000 *	29.9	249.4	37,800	47.3	266.8	32,000										120
125							22.7	239.3	35,700	42.8	261.8	30,200	56.6	270.4	24,700							125
130							11.9	223.3	33,800	37.9	255.9	28,600	52.7	266.9	23,400							130
135										32.3	248.8	27,100	48.6	262.8	22,100							135
140										25.7	239.8	25,800	44.2	258.0	21,000							140
145										17.0	227.0	24,400	39.5	252.4	19,900							145
150													34.1	245.8	18,900	49.5	256.8	14,600				150
155													28.0	237.5	17,900	45.2	252.2	13,800				155
160													20.2	226.3	17,000	40.5	246.8	13,100				160
170																29.4	232.5	11,700	45.5	244.4	8,100	170
180																10.7	205.1	10,400	35.7	232.7	7,100	180
190																			22.7	214.8	6,200	190

# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code

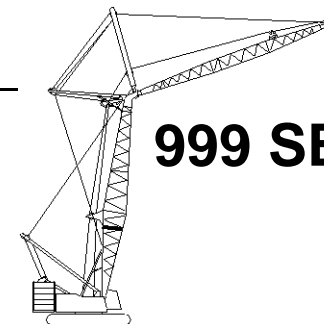
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	69.0	301.3	55,900 *b																			50
55	65.9	299.2	54,800 *b																			55
60	62.8	296.8	53,800 *																			60
65	59.5	294.0	52,800 *	70.5	300.6	57,400 *b																65
70	56.1	290.9	51,900 *	67.4	298.6	56,600 *b																70
75	52.6	287.3	50,100 *	64.3	296.4	55,900 *b																75
80	48.9	283.2	47,500 *	61.1	293.8	55,200 *	67.6	297.1	56,200 *b													80
85	45.0	278.5	45,000 *	57.7	290.9	54,500 *	64.5	294.9	55,800 *b													85
90	40.7	273.1	42,700 *	54.3	287.5	53,800 *	61.3	292.3	54,300													90
95	36.1	266.8	40,500 *	50.7	283.6	53,000 *	58.0	289.4	50,700													95
100	30.9	259.3	38,400 *	46.8	279.3	49,800 *	54.5	286.1	47,400													100
105	24.8	249.8	36,600 *	42.8	274.2	47,000 *	50.9	282.3	44,500	62.6	289.4	37,600										105
110	16.7	236.6	35,200 *	38.4	268.4	44,300 *	47.1	277.9	41,900	59.3	286.7	35,300										110
115				33.5	261.5	42,000 *	43.1	272.9	39,500	55.9	283.5	33,300										115
120				27.9	253.1	39,800 *	38.7	267.1	37,300	52.4	279.9	31,400										120
125				20.9	242.1	37,800 *	33.8	260.3	35,300	48.7	275.7	29,700										125
130				10.3	224.2	35,900 *	28.3	252.0	33,500	44.7	271.0	28,100	57.0	279.1	22,800							130
135							21.5	241.3	31,800	40.5	265.6	26,700	53.5	275.6	21,500							135
140							11.3	224.3	30,200	35.8	259.2	25,300	49.8	271.7	20,400							140
145										30.6	251.6	24,000	46.0	267.2	19,300							145
150										24.4	242.0	22,800	41.9	262.0	18,400							150
155										16.1	228.5	21,700	37.4	255.9	17,400	50.6	265.7	13,200				155
160													32.3	248.7	16,600	46.8	261.3	12,500				160
170													19.1	228.0	14,900	38.3	250.4	11,100				170
180																27.8	235.1	10,000	43.1	248.4	6,500	180
190																10.1	206.0	8,800	33.8	235.8	5,700	190
200																		21.5	216.8	4,800		200

# Manitowoc Cranes, Inc.

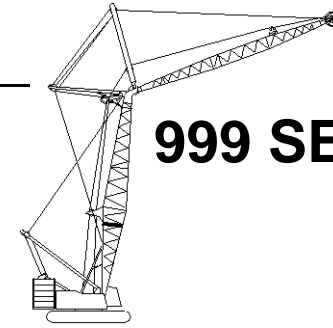
Manitowoc, Wisconsin 54220 U.S.A.



## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	71.0	311.9	53,000 *b																			50
55	68.2	310.0	52,100 *b																			55
60	65.4	307.9	51,200 *																			60
65	62.5	305.5	50,400 *																			65
70	59.5	302.7	49,600 *	69.6	309.4	53,400 *b																70
75	56.5	299.6	47,500 *	66.8	307.4	52,800 *b																75
80	53.3	296.0	45,300 *	63.9	305.1	52,200 *																80
85	50.0	292.1	43,100 *	61.0	302.5	51,700 *	67.0	305.9	52,300 *b													85
90	46.5	287.6	41,000 *	57.9	299.5	51,100 *	64.1	303.6	52,000 *													90
95	42.8	282.5	39,000 *	54.8	296.2	50,500 *	61.2	301.0	50,600													95
100	38.8	276.7	37,000 *	51.6	292.5	49,100 *	58.1	298.1	47,300													100
105	34.4	270.0	35,300 *	48.1	288.2	46,900 *	55.0	294.8	44,400													105
110	29.5	262.0	33,600 *	44.5	283.5	44,300 *	51.8	291.1	41,800	62.3	298.1	35,300										110
115	23.6	252.0	32,100 *	40.7	278.0	42,000 *	48.4	286.9	39,500	59.4	295.3	33,200										115
120	15.9	238.1	31,000 *	36.5	271.8	39,800 *	44.8	282.1	37,300	56.3	292.2	31,300										120
125				31.9	264.4	37,800 *	41.0	276.8	35,300	53.1	288.6	29,600										125
130				26.6	255.5	36,000 *	36.8	270.6	33,500	49.8	284.6	28,100										130
135				20.0	243.9	34,300 *	32.2	263.3	31,800	46.3	280.1	26,600	57.3	287.8	21,500							135
140				9.8	225.0	32,700 *	26.9	254.5	30,300	42.5	275.0	25,300	54.1	284.4	20,400							140
145							20.5	243.1	28,800	38.5	269.2	24,000	50.8	280.5	19,300							145
150							10.8	225.2	27,400	34.1	262.4	22,900	47.4	276.2	18,300							150
155										29.2	254.3	21,800	43.7	271.3	17,400							155
160										23.3	244.1	20,800	39.8	265.7	16,600	51.5	274.5	12,400				160
170													30.8	251.6	15,000	44.5	265.5	11,100				170
180													18.2	229.6	13,500	36.5	253.8	10,000				180
190																26.5	237.5	8,900	41.0	252.3	5,600	190
200																9.7	206.9	7,900	32.2	238.8	4,900	200
210																			20.5	218.6	4,200	210



# Liftcrane Luffing Jib Capacities

New York City Code

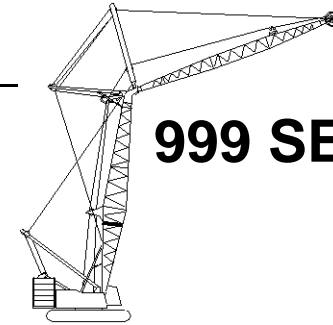
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	72.7	322.4	49,900 *b																50
55	70.1	320.7	49,100 *b																55
60	67.6	318.8	48,300 *																60
65	65.0	316.6	47,600 *																65
70	62.3	314.1	46,600 *																70
75	59.6	311.3	44,700 *	68.8	318.2	49,400 *													75
80	56.8	308.2	42,800 *	66.2	316.1	48,900 *													80
85	53.9	304.8	40,900 *	63.6	313.8	48,400 *													85
90	50.8	300.9	39,100 *	60.9	311.1	47,900 *	66.4	314.6	48,300 *										90
95	47.7	296.6	37,300 *	58.1	308.2	46,700 *	63.8	312.3	48,100 *										95
100	44.4	291.8	35,500 *	55.3	304.9	45,300 *	61.1	309.7	46,800										100
105	40.8	286.4	33,800 *	52.3	301.2	43,900 *	58.3	306.7	43,900										105
110	37.1	280.2	32,300 *	49.2	297.2	42,500 *	55.5	303.5	41,300										110
115	32.9	273.0	30,800 *	46.0	292.6	41,100 *	52.5	299.8	39,000	62.1	306.8	32,600							115
120	28.2	264.5	29,400 *	42.6	287.5	39,300 *	49.4	295.8	36,800	59.4	304.0	30,800							120
125	22.6	254.0	28,200 *	38.9	281.7	37,400 *	46.2	291.3	34,900	56.6	300.9	29,100							125
130	15.3	239.4	27,300 *	34.9	275.0	35,500 *	42.8	286.2	33,100	53.7	297.4	27,500							130
135				30.5	267.2	33,900 *	39.2	280.4	31,400	50.7	293.5	26,100							135
140				25.4	257.8	32,300 *	35.2	273.8	29,900	47.5	289.2	24,800	57.5	296.4	19,700				140
145				19.1	245.6	30,800 *	30.8	266.1	28,400	44.2	284.3	23,500	54.6	293.1	18,700				145
150				9.4	225.9	29,500 *	25.8	256.8	27,100	40.6	278.8	22,400	51.6	289.3	17,700				150
155							19.6	244.9	25,800	36.8	272.6	21,300	48.5	285.1	16,800				155
160							10.3	226.2	24,600	32.6	265.4	20,300	45.3	280.5	16,000				160
170										22.3	246.1	18,500	38.1	269.2	14,500	49.2	279.2	10,500	170
180													29.5	254.3	13,100	42.5	269.5	9,400	180
190													17.4	231.2	11,800	34.9	257.0	8,400	190
200																25.4	239.8	7,400	200
210																9.3	207.7	6,500	210

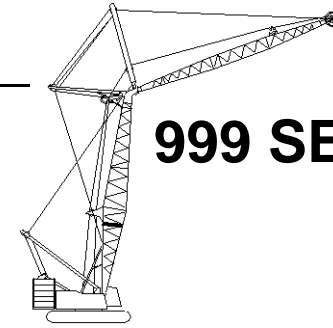
# Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

## Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	74.0	332.9	46,800 *b																50
55	71.7	331.3	46,100 *																55
60	69.4	329.5	45,400 *																60
65	67.0	327.5	44,700 *																65
70	64.6	325.3	43,400 *																70
75	62.1	322.8	41,900 *	70.5	328.8	46,000 *													75
80	59.6	320.0	40,300 *	68.1	327.0	45,600 *													80
85	57.0	316.9	38,700 *	65.8	324.8	45,100 *													85
90	54.3	313.5	37,100 *	63.3	322.5	44,200 *													90
95	51.6	309.7	35,500 *	60.8	319.8	42,900 *	65.9	323.3	44,600 *										95
100	48.7	305.6	34,000 *	58.3	316.9	41,700 *	63.5	321.0	44,000 *										100
105	45.7	300.9	32,500 *	55.6	313.6	40,400 *	61.0	318.3	42,900 *										105
110	42.5	295.8	31,000 *	52.9	310.0	39,100 *	58.4	315.4	41,000										110
115	39.2	290.0	29,600 *	50.1	306.0	37,900 *	55.8	312.2	38,600										115
120	35.5	283.4	28,300 *	47.2	301.6	36,700 *	53.1	308.6	36,500	62.0	315.4	30,400							120
125	31.6	275.9	27,100 *	44.1	296.7	35,500 *	50.3	304.6	34,500	59.5	312.6	28,700							125
130	27.1	267.0	26,000 *	40.8	291.3	34,400 *	47.4	300.3	32,800	56.9	309.5	27,100							130
135	21.7	256.0	25,000 *	37.3	285.1	33,300 *	44.3	295.4	31,100	54.2	306.1	25,700							135
140	14.7	240.8	24,200 *	33.5	278.1	32,000 *	41.0	290.0	29,600	51.4	302.3	24,400							140
145				29.3	269.9	30,600 *	37.6	283.9	28,200	48.5	298.1	23,200	57.7	305.1	18,300				145
150				24.4	260.0	29,200 *	33.8	276.9	26,800	45.5	293.4	22,000	55.0	301.8	17,300				150
155				18.3	247.2	27,900 *	29.6	268.8	25,600	42.4	288.3	21,000	52.3	298.1	16,500				155
160				9.0	226.7	26,700 *	24.8	259.1	24,400	39.0	282.4	20,000	49.5	294.0	15,600				160
170							9.9	227.0	22,200	31.3	268.2	18,200	43.4	284.5	14,100	52.9	292.1	10,100	170
180										21.4	248.0	16,500	36.5	272.6	12,700	47.1	283.7	9,000	180
190													28.3	256.8	11,500	40.8	273.3	8,000	190
200													16.8	232.7	10,400	33.5	260.1	7,100	200
210																24.3	242.0	6,300	210
220																8.9	208.5	5,400	220



# Liftcrane Luffing Jib Capacities

New York City Code

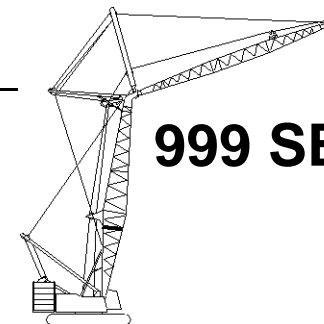
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
50	75.2	343.2	43,800 *b																50
55	73.1	341.8	43,100 *																55
60	70.9	340.2	42,500 *																60
65	68.7	338.3	41,300 *																65
70	66.5	336.3	40,100 *																70
75	64.3	334.0	38,900 *																75
80	62.0	331.5	37,600 *	69.8	337.7	42,300 *													80
85	59.6	328.7	36,300 *	67.6	335.7	41,600 *													85
90	57.2	325.6	34,900 *	65.3	333.5	40,500 *													90
95	54.8	322.2	33,600 *	63.1	331.1	39,300 *	67.7	334.2	41,100 *										95
100	52.2	318.5	32,300 *	60.8	328.5	38,100 *	65.5	332.0	40,200 *										100
105	49.6	314.5	31,000 *	58.4	325.5	36,800 *	63.2	329.6	39,100 *										105
110	46.8	310.0	29,700 *	55.9	322.3	35,600 *	60.9	327.0	38,100 *										110
115	44.0	305.1	28,500 *	53.4	318.8	34,400 *	58.5	324.1	37,000 *										115
120	40.9	299.6	27,300 *	50.8	314.9	33,200 *	56.1	320.9	35,800 *										120
125	37.7	293.5	26,100 *	48.2	310.6	32,100 *	53.6	317.3	34,100	61.8	324.1	28,100							125
130	34.2	286.6	25,000 *	45.3	305.9	30,900 *	51.0	313.5	32,300	59.5	321.3	26,600							130
135	30.4	278.7	24,000 *	42.4	300.7	29,800 *	48.3	309.2	30,600	57.1	318.2	25,200							135
140	26.1	269.4	23,100 *	39.3	294.9	28,800 *	45.5	304.6	29,100	54.6	314.8	23,900							140
145	20.9	257.9	22,200 *	35.9	288.4	27,800 *	42.6	299.4	27,700	52.1	311.1	22,700							145
150	14.1	242.0	21,600 *	32.3	281.0	26,800 *	39.5	293.7	26,400	49.4	307.0	21,500	57.9	313.8	16,800				150
155				28.2	272.4	25,900 *	36.1	287.2	25,200	46.7	302.5	20,500	55.4	310.5	15,900				155
160				23.5	262.1	25,100 *	32.5	279.9	24,000	43.8	297.6	19,500	52.9	306.9	15,000				160
170				8.7	227.5	23,700 *	23.8	261.2	21,900	37.5	285.9	17,700	47.6	298.5	13,500				170
180							9.6	227.9	20,000	30.1	271.0	16,100	41.7	288.4	12,200	50.8	296.9	8,400	180
190										20.6	249.9	14,600	35.1	275.8	11,000	45.3	287.9	7,400	190
200													27.2	259.3	9,900	39.2	276.9	6,600	200
210													16.1	234.2	8,900	32.2	263.0	5,800	210
220																23.4	244.1	5,000	220
230																8.6	209.2	4,200	230

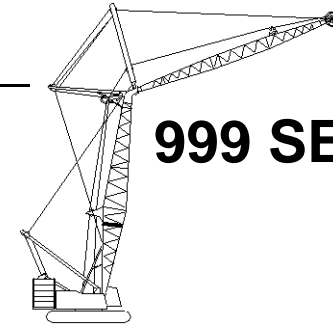




# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	74.2	352.2	39,800 *																55
60	72.2	350.7	38,900 *																60
65	70.2	349.0	38,000 *																65
70	68.2	347.1	37,000 *																70
75	66.1	345.0	36,000 *																75
80	64.0	342.7	35,000 *																80
85	61.8	340.1	33,900 *	69.1	346.5	38,300 *													85
90	59.7	337.3	32,700 *	67.1	344.5	37,200 *													90
95	57.4	334.3	31,500 *	65.0	342.3	36,100 *													95
100	55.1	330.9	30,400 *	62.9	339.8	35,000 *	67.2	343.0	36,800 *										100
105	52.8	327.3	29,200 *	60.7	337.1	33,800 *	65.1	340.7	35,900 *										105
110	50.3	323.3	28,100 *	58.5	334.2	32,700 *	63.0	338.3	34,900 *										110
115	47.8	319.0	27,000 *	56.2	331.0	31,500 *	60.9	335.6	33,800 *										115
120	45.2	314.2	26,000 *	53.9	327.5	30,400 *	58.6	332.7	32,800 *										120
125	42.4	309.0	25,000 *	51.5	323.7	29,200 *	56.4	329.5	31,700 *										125
130	39.5	303.2	24,000 *	49.0	319.5	28,100 *	54.1	326.1	30,600 *	61.7	332.8	26,400							130
135	36.4	296.8	23,100 *	46.4	315.0	27,100 *	51.7	322.3	29,500 *	59.5	330.0	25,000							135
140	33.0	289.6	22,200 *	43.7	310.0	26,000 *	49.2	318.2	28,400 *	57.3	326.9	23,700							140
145	29.3	281.3	21,400 *	40.9	304.5	25,000 *	46.6	313.6	27,300 *	55.0	323.5	22,500							145
150	25.2	271.6	20,600 *	37.9	298.4	24,000 *	43.9	308.7	26,300 *	52.6	319.9	21,400							150
155	20.2	259.7	19,900 *	34.7	291.6	23,100 *	41.1	303.2	25,100	50.2	315.9	20,300	58.0	322.4	15,700				155
160	13.6	243.2	19,300 *	31.1	283.9	22,200 *	38.1	297.2	23,900	47.6	311.5	19,400	55.7	319.2	14,900				160
170				22.7	264.2	20,600 *	31.4	282.8	21,800	42.2	301.5	17,600	51.0	311.7	13,400				170
180				8.4	228.2	19,300 *	23.0	263.3	20,000	36.2	289.2	16,000	45.8	302.9	12,100				180
190							9.2	228.7	18,300	29.1	273.6	14,600	40.3	292.2	10,900	49.0	301.6	7,300	190
200										19.9	251.7	13,300	33.9	278.9	9,800	43.7	292.0	6,400	200
210													26.3	261.7	8,800	37.9	280.4	5,600	210
220													15.6	235.6	7,900	31.1	265.9	4,900	220
230																22.6	246.1	4,200	230



# Liftcrane Luffing Jib Capacities

New York City Code

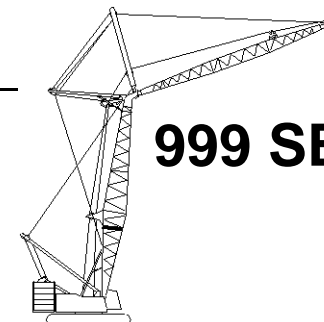
Luffing Jib No. 135 On Boom No. 82 or 22EL

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 160 Ft. Jib

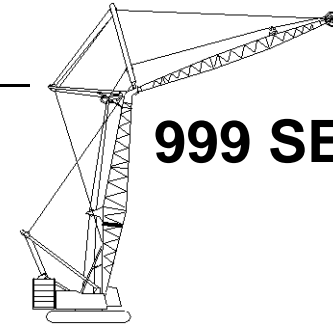
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Elev. Feet	Luffing Jib Capacity Pounds	
55	75.2	362.6	36,100 *																55
60	73.4	361.2	35,400 *																60
65	71.5	359.6	34,700 *																65
70	69.6	357.8	33,900 *																70
75	67.7	355.9	33,100 *																75
80	65.7	353.7	32,100 *																80
85	63.7	351.4	30,900 *	70.5	357.1	34,300 *													85
90	61.7	348.8	29,800 *	68.6	355.3	34,000 *													90
95	59.7	346.0	28,600 *	66.7	353.2	32,900 *													95
100	57.6	342.9	27,500 *	64.7	351.0	31,800 *													100
105	55.4	339.6	26,300 *	62.7	348.5	30,700 *	66.8	351.7	32,200 *										105
110	53.2	336.0	25,200 *	60.7	345.8	29,600 *	64.8	349.4	31,600 *										110
115	51.0	332.1	24,200 *	58.6	342.9	28,500 *	62.8	347.0	30,600 *										115
120	48.6	327.9	23,200 *	56.5	339.7	27,300 *	60.8	344.3	29,600 *										120
125	46.2	323.3	22,200 *	54.3	336.2	26,200 *	58.7	341.4	28,600 *										125
130	43.6	318.3	21,200 *	52.1	332.5	25,200 *	56.6	338.2	27,500 *										130
135	41.0	312.8	20,300 *	49.7	328.4	24,100 *	54.4	334.8	26,400 *	61.6	341.4	24,500							135
140	38.2	306.8	19,400 *	47.4	324.0	23,100 *	52.2	331.1	25,400 *	59.6	338.6	23,200							140
145	35.2	300.1	18,500 *	44.9	319.2	22,100 *	49.9	327.0	24,400 *	57.5	335.6	22,000							145
150	31.9	292.5	17,700 *	42.3	313.9	21,100 *	47.5	322.6	23,300 *	55.3	332.2	20,900							150
155	28.4	283.9	17,000 *	39.5	308.2	20,200 *	45.0	317.9	22,300 *	53.1	328.6	19,800							155
160	24.3	273.8	16,200 *	36.6	301.8	19,300 *	42.5	312.6	21,400 *	50.8	324.7	18,800							160
170	13.2	244.4	15,000 *	30.1	286.6	17,700 *	36.8	300.6	19,600 *	46.0	315.8	17,100	53.8	324.4	12,800				170
180				22.0	266.1	16,200 *	30.4	285.5	17,900 *	40.8	305.3	15,500	49.2	316.4	11,500				180
190				8.1	228.9	15,000 *	22.3	265.3	16,400 *	35.0	292.4	14,100	44.3	307.0	10,400	52.0	314.5	6,700	190
200							8.9	229.5	15,200 *	28.2	276.2	12,900	38.9	295.8	9,300	47.3	306.0	5,900	200
210										19.2	253.4	11,700	32.8	281.9	8,400	42.2	296.0	5,100	210
220													25.4	264.0	7,500	36.6	283.8	4,400	220
230													15.1	236.9	6,600				230



# Liftcrane Luffing Jib Capacities

New York City Code  
 Luffing Jib No. 135 On Boom No. 82 or 22EL  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

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



## 999 SERIES 3

### 200 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
60	74.4	371.6	32,300 *																60
65	72.6	370.1	31,700 *																65
70	70.8	368.5	31,000 *																70
75	69.1	366.6	30,400 *																75
80	67.2	364.6	29,600 *																80
85	65.4	362.4	28,400 *																85
90	63.5	360.0	27,300 *	69.9	366.0	30,100 *													90
95	61.6	357.5	26,200 *	68.1	364.0	29,800 *													95
100	59.7	354.6	25,100 *	66.3	361.9	29,200 *													100
105	57.7	351.6	24,000 *	64.4	359.6	28,100 *													105
110	55.7	348.3	23,000 *	62.5	357.2	27,000 *	66.4	360.4	28,200 *										110
115	53.6	344.8	22,000 *	60.6	354.4	26,000 *	64.5	358.1	28,000 *										115
120	51.5	341.0	21,000 *	58.7	351.5	24,900 *	62.7	355.7	27,000 *										120
125	49.3	336.8	20,000 *	56.7	348.4	23,900 *	60.8	353.0	26,000 *										125
130	47.1	332.4	19,000 *	54.6	344.9	22,800 *	58.8	350.1	25,000 *										130
135	44.7	327.5	18,100 *	52.5	341.2	21,800 *	56.8	346.9	24,000 *										135
140	42.3	322.2	17,300 *	50.4	337.3	20,800 *	54.8	343.5	23,000 *	61.5	350.1	22,800							140
145	39.7	316.5	16,400 *	48.2	333.0	19,900 *	52.7	339.8	22,000 *	59.6	347.3	21,600							145
150	37.0	310.2	15,700 *	45.9	328.3	18,900 *	50.5	335.9	21,000 *	57.6	344.2	20,500							150
155	34.1	303.2	14,900 *	43.5	323.2	18,000 *	48.3	331.6	20,100 *	55.6	340.9	19,400							155
160	31.0	295.3	14,200 *	41.0	317.7	17,200 *	46.0	327.0	19,100 *	53.5	337.4	18,500							160
170	23.6	276.0	12,800 *	35.5	305.0	15,600 *	41.1	316.5	17,400 *	49.2	329.4	16,700	56.2	336.6	12,400				170
180	12.8	245.5	11,200 *	29.2	289.2	14,100 *	35.7	303.8	15,800 *	44.6	320.0	15,200	52.1	329.3	11,100				180
190				21.3	268.0	12,500 *	29.4	288.2	14,200 *	39.6	308.9	13,800	47.7	320.9	10,000				190
200				7.9	229.6	10,900 *	21.6	267.2	12,600 *	33.9	295.5	12,500	42.9	311.0	8,900	50.4	319.3	5,500	200
210							8.7	230.3	11,000 *	27.3	278.6	11,400	37.7	299.2	8,000	45.8	310.3	4,700	210
220										18.7	255.1	10,300	31.8	284.8	7,100	40.9	299.8	4,000	220
230													24.7	266.2	6,300				230
240													14.6	238.2	5,600				240