

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

184,600 Lb. Crane Counterweight

44,000 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.

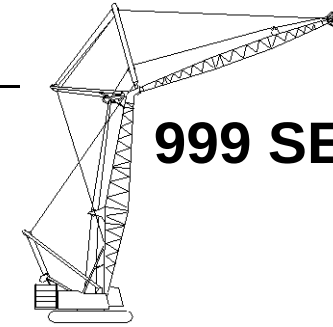
Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and luffing jib point sheaves, is considered part of luffing jib load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation 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 2

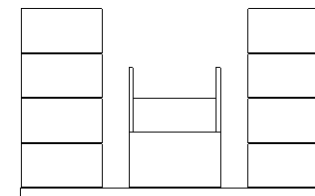
horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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, 184,600 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

Consult chart **No. 8274-A** for lifting off lower boom point with luffing jib attached. Chart **No. 8274-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.



184,600 Lb. Crane Counterweight
8 Side Boxes - 1 Center Box

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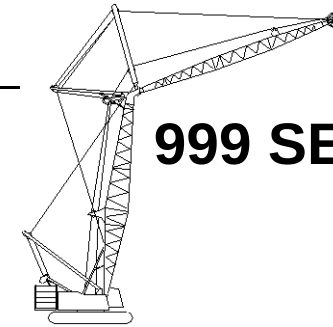
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184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

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999 SERIES 2

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	95,100 *b	60.3	135.9	93,600 b										60
65	37.8	120.9	75,600 *	45.3	127.0	86,600 *	49.3	129.7	87,100	55.4	132.7	84,600 b										65
70	30.5	113.5	68,300 *	39.2	121.5	77,500 *	43.7	125.0	79,400	50.3	129.0	77,200	56.2	131.2	74,900 b							70
75	21.1	103.1	55,800 *	32.2	114.6	69,900 *	37.4	119.1	72,900	44.8	124.4	70,800	51.1	127.6	68,800							75
80				23.4	105.1	62,500 *	30.0	111.6	67,300	38.6	118.8	65,400	45.6	123.1	63,500	51.7	125.5	61,600				80
85				8.5	87.6	46,800 *	20.4	101.0	60,800 *	31.5	111.6	60,700	39.6	117.7	58,900	46.3	121.2	57,200				85
90										22.4	101.8	56,500	32.6	110.8	54,900	40.3	115.8	53,300	46.7	118.5	51,700	90
95										5.2	81.5	49,300 *	24.0	101.6	51,300	33.5	109.2	49,800	40.7	113.2	48,300	95
100													10.0	85.2	48,000	25.1	100.3	46,700	34.0	106.7	45,300	100
105																12.4	85.5	43,900	25.7	98.0	42,600	105
110																			13.6	84.0	40,100	110

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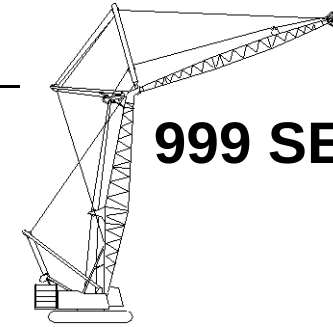
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44,000 Lb. Carbody Counterweight

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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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	92,800 *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	84,300 b										65
70	41.1	130.5	68,600 *	47.3	136.1	77,700 *	50.7	138.6	79,200	56.0	141.4	76,900										70
75	35.3	124.2	62,400 *	42.2	131.0	70,200 *	45.9	134.1	72,700	51.6	137.8	70,600	56.7	139.9	68,400							75
80	28.5	116.1	57,100 *	36.6	125.0	63,800 *	40.7	128.8	67,100	46.9	133.5	65,200	52.3	136.4	63,200							80
85	19.7	104.9	47,200 *	30.1	117.4	58,300 *	34.9	122.4	62,300 *	41.7	128.3	60,500	47.6	132.2	58,600	52.8	134.3	56,800				85
90				21.9	107.1	52,800 *	28.0	114.2	57,000 *	36.0	122.1	56,300	42.5	127.2	54,600	48.1	130.1	53,000				90
95				7.9	88.3	40,200 *	19.0	102.7	51,600 *	29.4	114.4	52,700	36.9	121.2	51,100	43.1	125.3	49,500				95
100										21.0	103.7	49,400	30.5	113.7	47,900	37.6	119.4	46,500	43.5	122.6	45,000	100
105										4.9	81.9	42,600 *	22.4	103.6	45,100	31.3	112.1	43,700	38.0	116.8	42,400	105
110													9.3	86.0	42,400	23.5	102.4	41,200	31.7	109.6	40,000	110
115																11.6	86.6	38,900	24.1	100.2	37,800	115
120																			12.7	85.1	35,700	120

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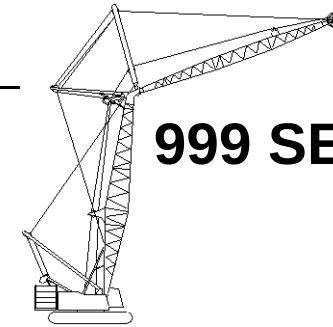
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	77,700 *													60
65	52.1	148.9	67,300 *	56.8	152.6	71,900 *	59.5	154.2	74,500 *													65
70	47.9	144.8	64,600 *	52.9	149.1	68,900 *	55.8	151.0	71,400 *	60.2	153.2	75,100 *										70
75	43.5	139.9	62,200 *	48.8	145.0	66,100 *	51.8	147.4	68,500 *	56.5	150.1	70,400										75
80	38.6	134.1	57,800 *	44.5	140.3	63,600 *	47.7	143.1	65,800 *	52.6	146.6	65,000	57.1	148.6	63,000							80
85	33.2	127.2	53,200 *	39.7	134.8	59,000 *	43.2	138.2	62,200	48.4	142.4	60,300	53.2	145.1	58,400							85
90	26.8	118.6	49,100 *	34.4	128.2	54,300 *	38.3	132.4	57,700 *	44.0	137.7	56,200	49.1	141.1	54,400							90
95	18.6	106.6	40,800 *	28.3	120.0	50,100 *	32.8	125.4	53,100 *	39.2	132.0	52,500	44.7	136.4	50,900	49.6	139.1	49,300				95
100				20.6	109.0	45,600 *	26.4	116.6	49,100 *	33.9	125.3	49,300	40.0	130.9	47,800	45.2	134.5	46,300				100
105				7.5	89.0	35,200 *	17.9	104.3	44,800 *	27.7	116.9	46,400	34.8	124.4	45,000	40.6	129.1	43,600	45.5	131.8	42,200	105
110										19.7	105.5	43,700	28.7	116.3	42,400	35.4	122.7	41,100	40.9	126.5	39,800	110
115										4.6	82.3	37,500 *	21.1	105.5	40,100	29.4	114.8	38,800	35.7	120.1	37,600	115
120													8.8	86.8	37,900	22.1	104.4	36,800	29.9	112.4	35,600	120
125																10.9	87.6	34,800	22.7	102.2	33,800	125
130																			11.9	86.2	32,100	130

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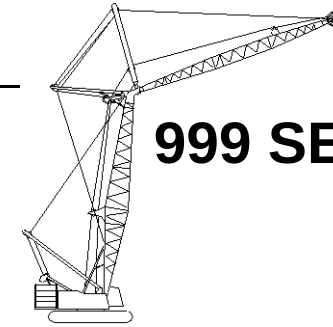
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999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	72,300 *													60
65	56.4	161.3	62,300 *	60.5	164.3	66,600 *	62.9	165.6	69,000 *													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	63,900 *										80
85	41.1	143.7	52,800 *	46.2	149.4	56,200 *	49.0	152.1	58,200 *	53.3	155.3	60,000	57.4	157.3	58,100							85
90	36.6	137.5	49,200 *	42.1	144.3	54,100 *	45.1	147.4	55,900 *	49.7	151.3	55,900	53.9	153.9	54,100							90
95	31.5	130.1	45,600 *	37.6	138.3	50,100 *	40.9	142.0	53,100 *	45.8	146.8	52,300	50.2	150.0	50,600							95
100	25.4	120.9	42,300 *	32.6	131.2	46,500 *	36.3	135.8	49,100 *	41.7	141.6	49,000	46.4	145.5	47,500	50.7	147.9	45,900				100
105	17.6	108.2	35,400 *	26.8	122.4	43,200 *	31.1	128.3	45,600 *	37.1	135.5	46,200	42.3	140.4	44,700	46.9	143.5	43,200				105
110				19.5	110.7	39,500 *	25.0	118.9	42,400 *	32.1	128.2	43,500	37.9	134.5	42,100	42.8	138.5	40,800	47.1	140.8	39,400	110
115				7.1	89.6	30,900 *	17.0	105.9	39,000 *	26.2	119.3	41,200	32.9	127.4	39,800	38.4	132.7	38,500	43.1	135.9	37,300	115
120										18.7	107.2	39,000	27.2	118.8	37,700	33.5	125.8	36,500	38.7	130.1	35,300	120
125										4.4	82.7	33,000 *	20.0	107.3	35,800	27.9	117.4	34,700	33.8	123.3	33,500	125
130													8.3	87.6	34,000	21.0	106.3	32,900	28.3	115.0	31,900	130
135																10.3	88.5	31,300	21.5	104.2	30,300	135
140																			11.3	87.2	28,800	140

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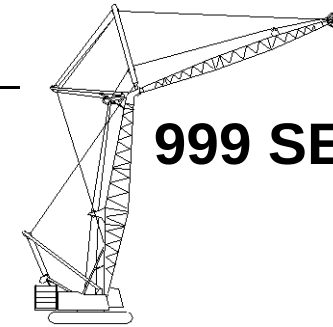
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40	74.0	183.7	73,700 *b																			40
45	71.3	182.1	71,700 *b																			45
50	68.5	180.3	68,700 *																			50
55	65.7	178.2	65,800 *	69.1	180.0	69,900 *																55
60	62.8	175.8	62,900 *	66.3	178.0	67,000 *																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	58,800 *										85
90	43.1	153.1	49,300 *	47.6	158.4	52,200 *	50.1	160.9	53,900 *	54.0	164.1	55,800 *	57.6	166.0	54,100 *							90
95	39.1	147.4	45,700 *	43.9	153.6	50,200 *	46.6	156.5	51,900 *	50.7	160.2	52,200 *	54.5	162.6	50,600 *							95
100	34.8	140.8	42,600 *	40.0	148.0	46,600 *	42.9	151.4	49,200 *	47.2	155.8	49,000 *	51.2	158.8	47,400 *							100
105	30.0	132.9	39,800 *	35.8	141.6	43,400 *	38.9	145.7	45,700 *	43.6	150.9	46,100 *	47.8	154.5	44,600 *	51.6	156.7	43,200 *				105
110	24.2	123.1	34,900 *	31.1	134.0	40,500 *	34.5	139.0	42,600 *	39.6	145.3	43,500 *	44.1	149.7	42,100 *	48.2	152.5	40,700 *				110
115	16.8	109.7	29,400 *	25.6	124.7	37,900 *	29.6	131.0	39,800 *	35.4	138.8	41,200 *	40.3	144.2	39,800 *	44.6	147.7	38,500 *				115
120				18.6	112.4	32,800 *	23.8	121.0	37,200 *	30.6	131.0	39,000 *	36.0	137.8	37,800 *	40.7	142.3	36,500 *	44.8	145.1	35,300 *	120
125				6.8	90.2	25,800 *	16.2	107.3	32,500 *	25.0	121.6	37,100 *	31.3	130.3	35,900 *	36.5	136.1	34,700 *	41.0	139.7	33,500 *	125
130										17.8	108.8	35,200 *	25.9	121.1	34,100 *	31.9	128.7	33,000 *	36.8	133.5	31,900 *	130
135										4.2	83.1	27,700 *	19.1	109.1	32,500 *	26.6	119.8	31,400 *	32.2	126.2	30,400 *	135
140													7.9	88.3	30,900 *	20.0	108.2	29,900 *	27.0	117.4	28,900 *	140
145																9.9	89.4	28,500 *	20.5	106.0	27,600 *	145
150																			10.8	88.2	26,400 *	150

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

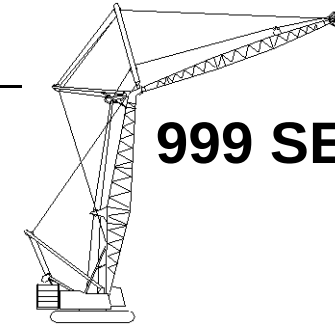
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	54,200 *										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	50,200							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	47,100							100
105	37.4	150.9	39,700 *	42.0	157.5	42,500 *	44.5	160.7	43,900 *	48.4	164.8	45,800	52.0	167.6	44,300							105
110	33.3	143.8	37,200 *	38.3	151.6	40,400 *	41.0	155.3	42,200 *	45.1	160.1	43,300	48.9	163.5	41,800	52.3	165.5	40,400				110
115	28.6	135.5	34,900 *	34.2	144.7	37,800 *	37.2	149.1	39,700 *	41.6	154.8	40,900	45.6	158.8	39,500	49.2	161.4	38,200				115
120	23.2	125.2	30,500 *	29.7	136.7	35,500 *	33.0	142.0	37,200 *	37.9	148.8	38,800	42.2	153.6	37,500	46.0	156.9	36,200				120
125	16.1	111.2	25,800 *	24.5	126.9	33,300 *	28.3	133.6	34,900 *	33.8	141.9	36,800	38.5	147.7	35,600	42.6	151.7	34,400	46.2	154.2	33,200	125
130				17.8	114.0	28,900 *	22.8	123.1	32,800 *	29.2	133.7	35,000	34.5	141.0	33,800	38.9	145.9	32,700	42.8	149.1	31,500	130
135				6.5	90.8	22,800 *	15.5	108.7	28,700 *	23.9	123.7	33,200 *	30.0	133.0	32,200	34.9	139.3	31,100	39.2	143.3	30,000	135
140										17.1	110.3	31,200 *	24.8	123.4	30,700	30.5	131.5	29,700	35.2	136.7	28,600	140
145										4.0	83.4	24,600 *	18.3	110.7	29,300	25.4	122.1	28,300	30.8	129.1	27,300	145
150													7.6	89.0	28,000	19.1	109.9	27,100	25.8	119.8	26,100	150
155																9.4	90.2	25,900	19.6	107.8	25,000	155
160																			10.3	89.1	23,900	160

Liftcrane Luffing Jib Capacities

New York City Code

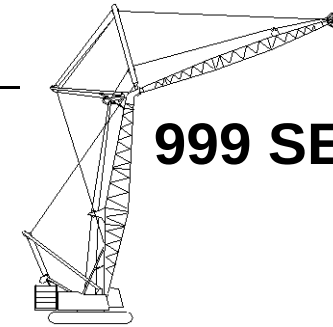
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	48,300 *	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	39,300 *	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	38,000				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	36,000				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	35,400	47.2	165.9	34,100				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	33,600	44.1	161.0	32,400	47.4	163.2	31,300	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	32,000	40.8	155.5	30,900	44.3	158.3	29,800	135
140				17.1	115.6	25,800 *	21.9	125.1	29,300 *	28.1	136.3	30,600 *	33.1	144.0	30,500	37.3	149.4	29,500	41.0	152.9	28,400	140
145				6.2	91.3	20,400 *	14.9	110.0	25,700 *	23.0	125.8	29,600 *	28.8	135.7	29,200	33.5	142.4	28,100	37.6	146.8	27,100	145
150										16.4	111.8	28,000 *	23.8	125.5	27,900	29.3	134.2	26,900	33.8	139.8	25,900	150
155										3.8	83.8	22,100 *	17.6	112.3	26,700	24.4	124.3	25,700	29.6	131.7	24,800	155
160													7.3	89.6	25,500	18.4	111.5	24,600	24.8	122.0	23,800	160
170																			9.9	90.0	21,800	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

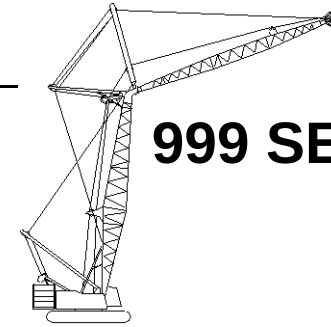
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	30,400 *	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	29,200 *	45.0	172.1	30,600 *	48.2	174.9	31,800 *				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	29,100 *	45.5	167.5	28,100	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	27,300 *	39.3	159.2	27,800	42.6	162.3	26,800	145
150				16.5	117.0	22,900 *	21.1	127.0	24,000 *	27.0	138.7	25,100 *	31.8	146.9	26,300 *	35.9	152.7	26,600	39.5	156.6	25,600	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	25,400	36.1	150.1	24,500	155
160										15.8	113.2	23,600 *	22.9	127.6	24,500 *	28.2	136.7	24,400	32.5	142.8	23,400	160
170													7.0	90.2	22,800 *	17.7	113.1	22,400	23.8	124.2	21,500	170
180																			9.6	90.8	19,800	180

Liftcrane Luffing Jib Capacities

New York City Code

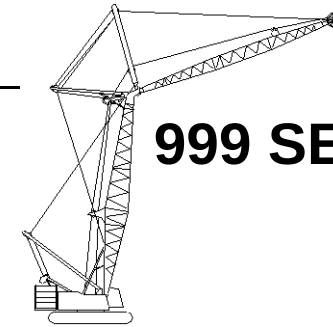
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.4	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	30,200 *	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	27,700 *	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	29.9	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	24,400 *	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	23,400 *	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	23,400 *	160
170										15.3	114.6	19,200 *	22.1	129.6	20,000 *	27.2	139.2	20,900 *	31.4	145.7	21,500 *	170
180													6.8	90.8	19,000 *	17.1	114.6	19,500 *	23.0	126.2	19,800 *	180
190																			9.2	91.7	18,300 *	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

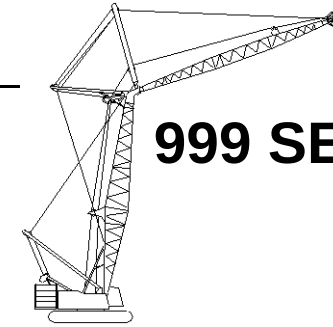
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	22,600 *				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	18,000 *	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

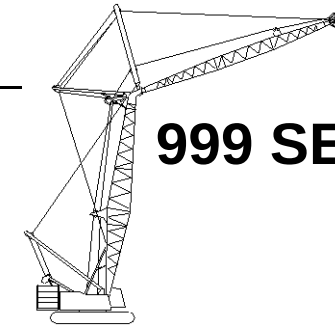
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.5	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	21,300 *				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	12,000 *	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

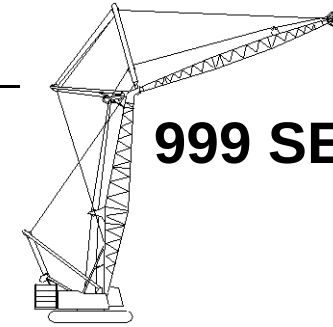
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	101,000 *b													55
60	44.5	137.0	86,000 *	52.1	142.4	92,800 *	56.2	144.7	95,800 b	62.7	147.0	92,500 b										60
65	38.3	131.3	77,000 *	46.7	138.1	88,400	51.2	141.0	86,600	58.0	144.1	83,700 b										65
70	31.1	124.1	69,500 *	40.8	132.9	80,500 *	45.7	136.6	79,000	53.0	140.7	76,300 b										70
75	21.9	114.0	60,300 *	34.0	126.4	72,500 *	39.7	131.1	72,500	47.7	136.5	70,000	54.6	139.6	67,600 b							75
80	2.0	90.3	41,500 *	25.8	117.7	65,600 *	32.7	124.3	66,900	41.9	131.5	64,700	49.4	135.6	62,400							80
85				13.7	103.7	54,600 *	24.1	115.1	62,100	35.3	125.2	60,000	43.8	130.9	57,900	50.9	133.9	55,900				85
90							10.2	98.9	53,300 *	27.4	117.0	55,900	37.5	125.1	54,000	45.4	129.5	52,100				90
95										16.5	104.6	52,200	30.2	117.6	50,500	39.3	124.0	48,700	46.7	127.1	46,900	95
100													20.6	107.1	47,300	32.3	117.1	45,700	40.7	121.9	44,000	100
105																23.6	107.6	42,900	34.0	115.3	41,400	105
110																8.9	90.5	40,400	25.7	106.6	39,100	110
115																			13.6	92.6	36,800	115

Liftcrane Luffing Jib Capacities

New York City Code

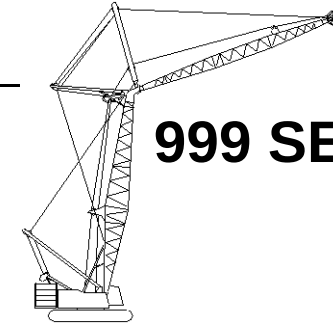
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	68.0	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	94,600 *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	89,800 *b													60
65	46.6	146.1	76,500 *	53.1	151.2	82,200 *	56.7	153.3	85,600 *	62.4	155.6	83,300 b										65
70	41.5	140.9	69,800 *	48.5	147.1	78,800 *	52.3	149.8	78,700	58.2	152.8	76,000										70
75	35.7	134.6	63,500 *	43.5	142.3	72,700 *	47.7	145.6	72,300	53.9	149.4	69,700										75
80	29.0	126.7	58,100 *	38.0	136.5	66,000 *	42.6	140.6	66,700	49.3	145.5	64,400	55.3	148.3	62,100							80
85	20.4	115.9	51,100 *	31.8	129.3	60,300 *	37.0	134.6	61,900	44.4	140.8	59,800	50.8	144.5	57,600							85
90	1.8	90.5	35,900 *	24.1	119.9	55,300 *	30.6	127.1	57,700	39.1	135.2	55,700	46.0	140.1	53,700	52.1	142.7	51,700				90
95				12.8	104.9	46,800 *	22.5	117.1	53,900	33.0	128.3	52,100	40.8	134.8	50,200	47.4	138.5	48,400				95
100							9.5	99.7	45,900 *	25.6	119.4	48,800	35.0	128.4	47,100	42.3	133.5	45,400				100
105										15.4	106.0	45,900	28.2	120.2	44,300	36.7	127.4	42,700	43.5	131.3	41,100	105
110													19.3	108.9	41,700	30.2	119.8	40,300	38.0	125.5	38,800	110
115																22.0	109.6	38,000	31.7	118.3	36,600	115
120																8.4	91.2	35,900	24.1	108.8	34,700	120
125																			12.7	93.8	32,800	125

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

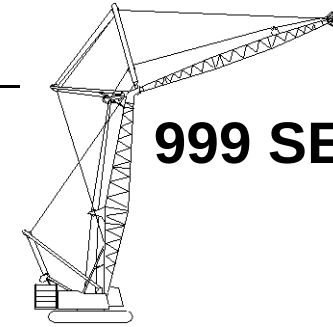
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	75,700 *	64.4	167.6	78,800 *b													60
65	52.4	159.2	67,400 *	57.8	163.3	72,600 *	60.8	165.0	75,500 *													65
70	48.2	155.1	64,800 *	53.9	159.9	69,600 *	57.1	162.0	72,400 *	62.1	164.3	75,800										70
75	43.8	150.2	62,400 *	49.9	156.0	66,800 *	53.2	158.5	69,500 *	58.4	161.4	69,500										75
80	39.0	144.6	58,800 *	45.6	151.5	64,300 *	49.1	154.5	66,600	54.6	158.1	64,200										80
85	33.6	137.8	54,100 *	40.9	146.1	61,000 *	44.8	149.8	61,800	50.6	154.3	59,600	55.8	157.0	57,400							85
90	27.3	129.3	49,900 *	35.8	139.8	56,000 *	40.1	144.4	57,600	46.4	149.9	55,500	51.9	153.3	53,500							90
95	19.3	117.6	44,200 *	29.9	132.1	51,600 *	34.8	137.8	53,900	41.8	144.7	51,900	47.7	149.1	50,000	53.0	151.5	48,100				95
100	1.7	90.6	31,600 *	22.7	122.0	47,700 *	28.8	129.8	50,500	36.7	138.6	48,700	43.3	144.2	46,900	48.9	147.5	45,200				100
105				12.0	106.0	40,900 *	21.2	119.1	47,200 *	31.0	131.2	45,800	38.4	138.4	44,200	44.5	142.7	42,500				105
110							9.0	100.5	40,300 *	24.2	121.6	43,200	32.9	131.4	41,700	39.8	137.2	40,100	45.5	140.4	38,600	110
115										14.5	107.3	40,800	26.5	122.7	39,400	34.5	130.6	37,900	40.9	135.1	36,500	115
120													18.1	110.5	37,300	28.4	122.5	35,900	35.7	128.8	34,500	120
125																20.8	111.5	34,100	29.9	121.0	32,800	125
130																7.9	92.0	32,300	22.7	110.9	31,100	130
135																			11.9	94.9	29,600	135

Liftcrane Luffing Jib Capacities

New York City Code

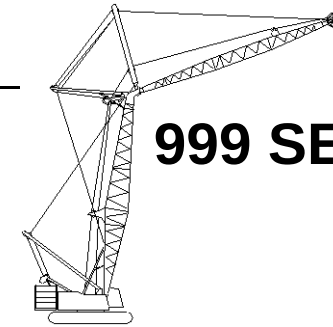
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	72.6	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	64,200 *	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	63,900 *										80
85	41.4	154.1	53,000 *	47.1	160.5	56,800 *	50.3	163.4	59,100 *	55.2	166.8	59,300 *										85
90	36.9	148.0	50,000 *	43.1	155.5	54,600 *	46.5	158.9	56,700 *	51.6	163.1	55,200 *	56.3	165.6	53,100 *							90
95	31.8	140.7	46,400 *	38.7	149.8	51,700 *	42.4	153.8	53,600 *	47.8	158.9	51,600 *	52.8	162.1	49,700 *							95
100	25.9	131.6	43,100 *	33.9	142.9	47,900 *	37.9	147.9	50,300 *	43.8	154.0	48,400 *	49.1	158.0	46,600 *							100
105	18.3	119.3	38,400 *	28.3	134.7	44,500 *	33.0	140.9	47,300 *	39.5	148.4	45,600 *	45.2	153.4	43,800 *	50.1	156.3	42,100 *				105
110	1.6	90.8	27,800 *	21.5	123.9	41,400 *	27.3	132.3	44,000 *	34.8	141.8	43,000 *	41.0	148.0	41,400 *	46.2	151.9	39,800 *				110
115				11.4	107.0	35,800 *	20.1	120.9	40,900 *	29.4	133.9	40,700 *	36.4	141.8	39,100 *	42.1	146.7	37,600 *	47.1	149.5	36,100 *	115
120							8.5	101.3	35,400 *	22.9	123.7	38,500 *	31.2	134.3	37,000 *	37.7	140.7	35,600 *	43.1	144.5	34,200 *	120
125										13.8	108.6	36,500 *	25.1	125.0	35,200 *	32.7	133.6	33,800 *	38.7	138.7	32,400 *	125
130													17.2	112.1	33,400 *	26.9	124.9	32,100 *	33.8	131.9	30,800 *	130
135																19.7	113.3	30,600 *	28.3	123.6	29,400 *	135
140																7.5	92.6	29,000 *	21.5	112.9	28,000 *	140
145																			11.3	95.9	26,600 *	145

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

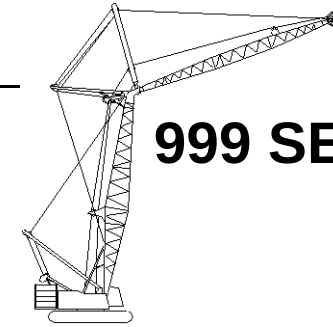
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	67,000 *													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	59,200 *										85
90	43.4	163.5	49,400 *	48.4	169.5	52,700 *	51.2	172.2	54,600 *	55.6	175.5	55,200 *										90
95	39.4	157.8	46,500 *	44.8	164.7	50,700 *	47.8	167.9	52,600 *	52.4	171.9	51,600 *	56.6	174.3	49,600 *							95
100	35.1	151.2	43,300 *	41.0	159.4	48,000 *	44.2	163.1	50,300 *	49.0	167.8	48,400 *	53.4	170.8	46,600 *							100
105	30.3	143.5	40,400 *	36.9	153.2	44,600 *	40.3	157.6	47,300 *	45.5	163.2	45,600 *	50.1	166.9	43,800 *							105
110	24.7	133.9	37,800 *	32.3	145.9	41,600 *	36.1	151.3	44,200 *	41.7	157.9	43,000 *	46.6	162.5	41,300 *	51.0	165.2	39,700 *				110
115	17.4	120.9	31,900 *	27.0	137.1	38,900 *	31.4	143.8	41,200 *	37.6	151.9	40,700 *	42.9	157.4	39,100 *	47.6	160.9	37,600 *				115
120	1.6	90.9	23,100 *	20.5	125.8	36,400 *	26.0	134.6	38,500 *	33.1	144.9	38,600 *	39.0	151.7	37,100 *	44.0	156.0	35,600 *				120
125				10.9	108.0	29,900 *	19.2	122.6	36,100 *	28.0	136.4	36,600 *	34.6	145.0	35,200 *	40.1	150.5	33,800 *	44.8	153.7	32,400 *	125
130							8.1	102.0	29,600 *	21.8	125.6	34,800 *	29.7	137.0	33,500 *	35.9	144.1	32,100 *	41.0	148.4	30,800 *	130
135										13.1	109.8	33,100 *	24.0	127.1	31,900 *	31.1	136.5	30,600 *	36.8	142.2	29,400 *	135
140													16.4	113.5	30,400 *	25.7	127.3	29,200 *	32.2	134.9	28,000 *	140
145																18.8	115.0	27,800 *	27.0	126.1	26,700 *	145
150																7.1	93.3	26,600 *	20.5	114.7	25,500 *	150
155																			10.8	96.8	24,400 *	155

Liftcrane Luffing Jib Capacities

New York City Code

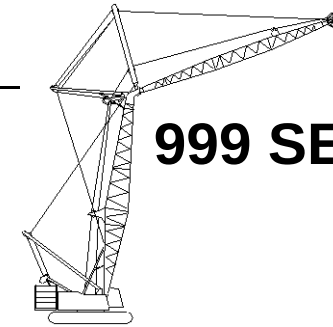
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	51,000 *										95
100	41.4	167.4	41,800 *	46.2	173.8	44,700 *	48.9	176.9	46,400 *	53.1	180.7	48,100	56.9	183.0	46,200							100
105	37.7	161.3	40,300 *	42.8	168.8	42,900 *	45.6	172.3	44,600 *	50.0	176.7	45,300	54.0	179.6	43,500							105
110	33.6	154.3	37,800 *	39.2	163.0	41,300 *	42.2	167.1	42,900 *	46.8	172.3	42,700	51.0	175.7	41,000							110
115	29.0	146.1	35,500 *	35.2	156.4	38,900 *	38.5	161.2	41,100 *	43.4	167.3	40,400	47.9	171.4	38,800	51.8	174.0	37,200				115
120	23.6	136.0	33,100 *	30.9	148.7	36,400 *	34.5	154.4	38,500 *	39.9	161.7	38,300	44.5	166.7	36,700	48.7	169.8	35,200				120
125	16.7	122.4	28,100 *	25.8	139.5	34,200 *	30.0	146.5	36,100 *	36.0	155.2	36,300	41.0	161.2	34,900	45.5	165.2	33,500				125
130	1.5	91.1	20,500 *	19.6	127.5	32,100 *	24.8	136.9	33,900 *	31.7	147.8	34,600	37.2	155.1	33,200	42.0	159.9	31,800				130
135				10.4	108.9	26,500 *	18.4	124.3	31,800 *	26.8	138.8	32,900	33.1	148.0	31,600	38.3	154.0	30,300	46.2	162.8	30,500	135
140							7.8	102.7	26,300 *	20.9	127.5	31,400	28.4	139.6	30,100	34.3	147.2	28,900	39.2	152.0	27,700	140
145										12.6	110.9	29,900	22.9	129.2	28,800	29.8	139.2	27,600	35.2	145.4	26,400	145
150													15.7	114.9	27,500	24.6	129.5	26,300	30.8	137.7	25,200	150
155																18.0	116.6	25,200	25.8	128.4	24,100	155
160																6.8	93.9	24,100	19.6	116.5	23,100	160

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

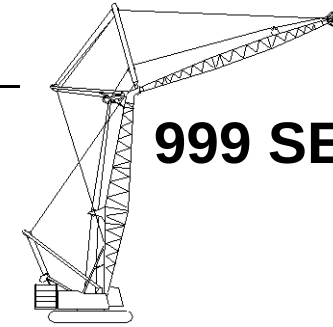
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	40,100 *	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	40,400 *							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	38,500 *							115
120	32.2	157.3	31,000 *	37.6	166.5	32,800 *	40.5	170.8	34,000 *	44.9	176.5	35,900 *	48.9	180.4	36,500 *	52.5	182.7	35,000				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	34,700 *	49.7	178.7	33,200				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	33,000 *	46.7	174.2	31,600				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	31,400 *	43.6	169.3	30,100	47.4	171.9	28,800	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	29,900 *	40.3	163.7	28,700	44.3	167.0	27,400	140
145				10.0	109.8	23,700 *	17.6	125.8	28,500 *	25.7	141.2	29,800 *	31.8	150.9	28,600 *	36.8	157.4	27,400	41.0	161.6	26,200	145
150							7.5	103.4	23,600 *	20.1	129.3	28,500 *	27.3	142.1	27,300 *	32.9	150.2	26,200	37.6	155.5	25,000	150
155										12.1	112.0	27,300 *	22.0	131.2	26,100 *	28.6	141.8	25,000	33.8	148.5	23,900	155
160													15.1	116.3	25,000 *	23.6	131.6	24,000 *	29.6	140.4	22,900	160
170																6.6	94.5	22,000 *	18.8	118.2	21,000	170

Liftcrane Luffing Jib Capacities

New York City Code

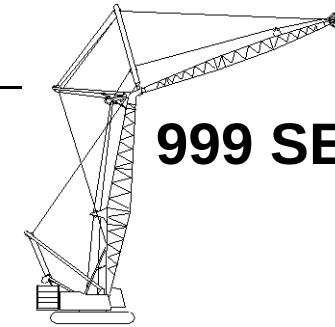
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.5	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	33,800 *	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	31,200				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	29,700				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	28,300				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	27,000	45.5	176.2	25,800	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	25,800	42.6	171.0	24,700	150
155				9.7	110.7	21,100 *	17.0	127.4	23,600 *	24.8	143.4	24,800 *	30.6	153.7	25,900	35.4	160.7	24,700	39.5	165.2	23,600	155
160							7.2	104.0	21,100 *	19.3	131.1	24,000 *	26.3	144.5	24,800	31.7	153.1	23,700	36.1	158.8	22,600	160
170													14.5	117.6	22,700	22.7	133.7	21,700	28.5	143.0	20,700	170
180																6.3	95.0	20,000	18.1	119.8	19,100	180

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

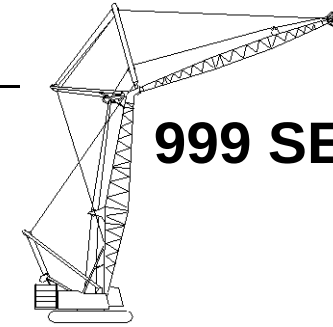
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	24,600	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	23,500	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	22,500	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	20,700	170
180													14.0	118.8	19,200 *	21.9	135.6	20,000	27.5	145.5	19,100	180
190																6.1	95.6	18,400	17.5	121.4	17,600	190

Liftcrane Luffing Jib Capacities

New York City Code

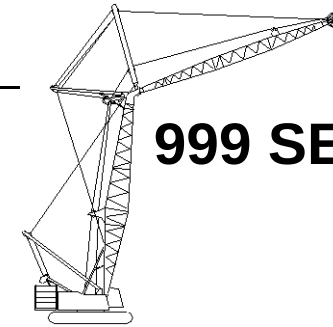
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.5	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	22,000 *	48.7	202.7	23,300 *	51.7	205.2	24,500 *				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	21,300 *	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	21,500 *	160
170	1.3	91.5	12,900 *	17.0	134.0	14,900 *	21.5	145.0	15,500 *	27.3	158.3	16,600 *	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

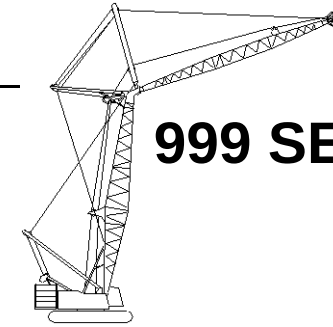
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	15,800 *	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	14,300 *	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

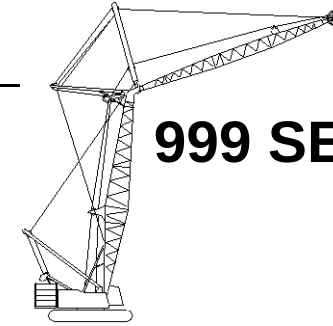
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	102,500 *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	95,100 b													60
65	38.7	141.7	78,100 *	48.0	149.2	88,100	53.0	152.2	86,100 b	60.4	155.3	82,700 b										65
70	31.6	134.6	70,500 *	42.3	144.2	80,300	47.7	148.0	78,500	55.6	152.2	75,400 b										70
75	22.6	124.9	63,800 *	35.8	138.0	73,700	41.8	143.0	72,000	50.5	148.4	69,200	58.0	151.2	66,400 b							75
80	6.0	105.3	46,300 *	28.0	130.0	67,700 *	35.3	136.7	66,500	45.0	143.9	63,900	53.0	147.8	61,300							80
85				17.4	118.1	61,300 *	27.4	128.5	61,700	38.8	138.3	59,300	47.7	143.7	56,900							85
90							16.4	116.1	57,400	31.7	131.2	55,200	41.9	138.6	53,000	50.1	142.4	50,800				90
95										22.8	121.5	51,600	35.3	132.4	49,600	44.5	137.8	47,500				95
100										6.6	102.5	48,300	27.5	124.2	46,500	38.3	132.1	44,600	46.7	135.8	42,700	100
105													16.5	111.8	43,700	31.1	124.9	41,900	40.7	130.6	40,200	105
110																22.0	114.9	39,500	34.0	124.0	37,900	110
115																2.6	91.9	37,200	25.7	115.3	35,800	115
120																			13.6	101.3	33,800	120

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

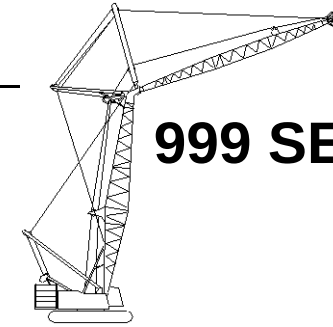
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	91,200 *b													60
65	47.0	156.4	76,700 *	54.2	162.0	83,100 *	58.2	164.3	85,800													65
70	41.8	151.3	70,800 *	49.6	158.1	79,600 *	53.9	160.9	78,200	60.4	164.0	75,000 b										70
75	36.1	145.1	64,400 *	44.8	153.5	73,600	49.3	157.0	71,800	56.2	160.9	68,900										75
80	29.5	137.4	58,900 *	39.4	147.9	67,900	44.4	152.3	66,300	51.7	157.2	63,600										80
85	21.2	126.8	54,000 *	33.4	141.1	62,100 *	39.0	146.7	61,500	47.0	153.0	59,000	53.9	156.5	56,500							85
90	5.7	105.8	40,100 *	26.2	132.4	56,800 *	32.9	139.8	57,300	41.9	147.9	55,000	49.4	152.6	52,700							90
95				16.3	119.5	52,100 *	25.6	130.9	53,600	36.2	141.7	51,400	44.5	147.9	49,300	51.4	151.2	47,200				95
100										29.6	134.0	48,200	39.1	142.3	46,200	46.6	146.9	44,200				100
105										21.3	123.5	45,400	33.0	135.4	43,500	41.5	141.7	41,600				105
110										6.2	103.1	42,700	25.7	126.5	41,000	35.8	135.4	39,300	43.5	139.9	37,500	110
115													15.5	113.2	38,700	29.1	127.6	37,100	38.0	134.1	35,500	115
120																20.5	116.7	35,100	31.7	126.9	33,600	120
125																2.5	92.1	33,200	24.1	117.5	31,900	125
130																			12.7	102.4	30,200	130

Liftcrane Luffing Jib Capacities

New York City Code

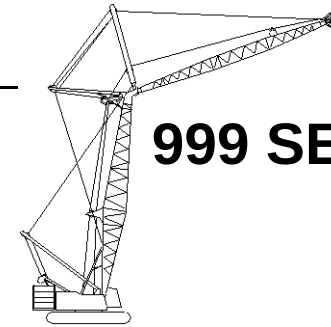
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	70.8	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	76,400 *	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	68,700										75
80	39.3	155.0	59,600 *	46.6	162.6	64,900 *	50.6	165.8	66,100	56.6	169.6	63,400										80
85	34.0	148.3	54,800 *	42.1	157.4	62,600 *	46.3	161.4	61,400	52.7	166.0	58,800										85
90	27.8	139.9	50,600 *	37.1	151.4	57,600 *	41.7	156.2	57,200	48.6	161.9	54,800	54.6	165.3	52,500							90
95	19.9	128.6	46,700 *	31.4	144.0	53,000 *	36.7	150.1	53,500	44.2	157.2	51,300	50.6	161.4	49,100							95
100	5.3	106.3	35,200 *	24.6	134.7	49,000 *	31.0	142.6	50,200	39.4	151.6	48,100	46.4	157.0	46,000	52.4	160.0	44,000				100
105				15.3	120.9	45,300 *	24.1	133.1	47,200	34.1	144.9	45,300	41.8	151.8	43,300	48.3	155.8	41,400				105
110							14.4	118.8	44,500	27.9	136.5	42,700	36.8	145.7	40,900	43.8	151.0	39,100				110
115										20.1	125.3	40,400	31.1	138.3	38,600	39.0	145.3	36,900	45.5	149.1	35,300	115
120										5.8	103.6	38,100	24.2	128.7	36,600	33.6	138.5	35,000	40.9	143.8	33,400	120
125													14.6	114.5	34,700	27.4	130.1	33,200	35.7	137.5	31,700	125
130																19.3	118.5	31,500	29.9	129.7	30,100	130
135																2.3	92.4	29,900	22.7	119.6	28,700	135
140																			11.9	103.5	27,300	140

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

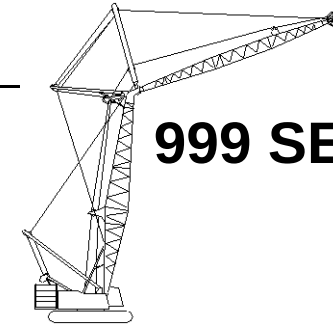
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	59,800 *	55.1	178.4	62,400 *	60.3	181.3	63,000										80
85	41.7	164.5	53,200 *	48.1	171.5	57,400 *	51.6	174.6	59,900 *	57.0	178.2	58,500										85
90	37.2	158.5	50,700 *	44.1	166.7	55,200 *	47.8	170.4	56,900	53.5	174.8	54,500										90
95	32.2	151.2	47,000 *	39.8	161.2	53,100 *	43.8	165.5	53,200	49.8	170.8	51,000	55.2	174.0	48,700							95
100	26.3	142.3	43,700 *	35.1	154.6	49,200 *	39.5	159.9	49,900	45.9	166.3	47,800	51.6	170.2	45,700							100
105	18.9	130.3	40,600 *	29.8	146.8	45,600 *	34.8	153.3	47,000	41.8	161.1	45,000	47.9	166.0	43,000							105
110	5.1	106.8	30,900 *	23.4	136.8	42,400 *	29.4	145.3	44,300	37.3	155.0	42,400	43.9	161.2	40,600	49.5	164.7	38,700				110
115				14.5	122.2	39,400 *	22.8	135.1	41,900	32.3	147.8	40,100	39.6	155.6	38,300	45.6	160.2	36,600				115
120							13.7	120.0	39,300 *	26.4	139.0	38,000	34.8	149.0	36,300	41.5	154.9	34,700	47.1	158.2	33,000	120
125										19.0	127.0	36,100	29.4	141.0	34,500	36.9	148.8	32,900	43.1	153.2	31,400	125
130										5.5	104.1	34,200	22.9	130.8	32,800	31.9	141.5	31,300	38.7	147.4	29,800	130
135													13.8	115.8	31,100	25.9	132.4	29,800	33.8	140.6	28,400	135
140																18.3	120.1	28,300	28.3	132.3	27,000	140
145																2.2	92.6	26,900	21.5	121.5	25,800	145
150																			11.3	104.5	24,600	150

Liftcrane Luffing Jib Capacities

New York City Code

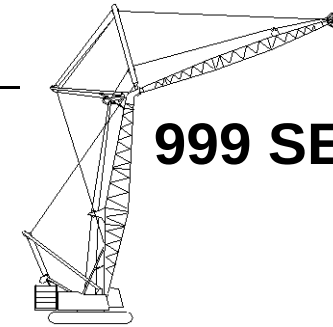
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.4	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	58,400										85
90	43.6	173.8	49,500 *	49.3	180.5	53,200 *	52.4	183.4	55,400 *	57.2	186.9	54,400										90
95	39.7	168.2	47,100 *	45.7	175.9	51,200 *	49.0	179.3	53,200	54.1	183.5	50,900										95
100	35.4	161.7	43,900 *	42.0	170.7	49,300 *	45.5	174.7	49,900	50.8	179.7	47,800	55.6	182.7	45,600							100
105	30.7	154.1	40,900 *	37.9	164.7	45,800 *	41.7	169.5	47,000	47.3	175.3	45,000	52.4	179.0	43,000							105
110	25.1	144.6	38,300 *	33.4	157.7	42,700 *	37.6	163.4	44,400	43.7	170.4	42,400	49.0	174.9	40,500							110
115	18.0	131.9	33,900 *	28.4	149.4	39,900 *	33.1	156.4	42,000	39.8	164.8	40,100	45.5	170.3	38,300	50.5	173.6	36,600				115
120	4.8	107.2	25,800 *	22.3	138.8	37,300 *	28.0	147.9	39,700 *	35.5	158.3	38,000	41.7	165.1	36,300	47.1	169.2	34,600				120
125				13.9	123.5	33,400 *	21.8	137.1	37,200 *	30.8	150.7	36,100	37.6	159.1	34,500	43.4	164.3	32,900				125
130							13.1	121.2	34,300 *	25.2	141.3	34,300	33.1	152.0	32,800	39.5	158.6	31,300	44.8	162.4	29,800	130
135										18.1	128.7	32,700	28.0	143.6	31,200	35.2	152.0	29,800	41.0	157.0	28,400	135
140										5.3	104.5	31,100	21.8	132.8	29,800	30.3	144.3	28,400	36.8	150.8	27,000	140
145													13.2	116.9	28,400	24.7	134.7	27,100	32.2	143.6	25,800	145
150																17.5	121.7	25,900	27.0	134.7	24,700	150
155																2.1	92.7	24,700	20.5	123.4	23,600	155
160																			10.8	105.5	22,500	160

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

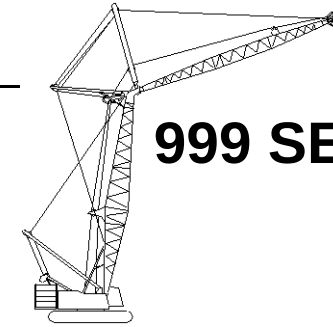
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	59,900 *													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	51,000 *	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	50,600										95
100	41.7	177.7	41,900 *	47.0	184.9	45,100 *	50.0	188.2	47,100 *	54.6	192.2	47,400										100
105	38.0	171.8	40,400 *	43.7	180.0	43,400 *	46.8	183.8	45,200 *	51.6	188.5	44,600	56.0	191.4	42,600							105
110	33.9	164.9	38,300 *	40.1	174.4	41,800 *	43.4	178.8	43,500 *	48.5	184.3	42,100	53.1	187.8	40,200							110
115	29.3	156.7	35,900 *	36.2	168.0	39,800 *	39.8	173.2	41,700	45.2	179.6	39,800	50.0	183.8	38,000							115
120	24.0	146.8	33,700 *	32.0	160.7	37,300 *	35.9	166.7	39,500	41.7	174.3	37,700	46.8	179.4	36,000	51.4	182.4	34,300				120
125	17.2	133.5	29,900 *	27.1	151.8	35,000 *	31.6	159.3	37,200 *	38.0	168.3	35,800	43.5	174.4	34,200	48.2	178.2	32,500				125
130	4.6	107.6	22,900 *	21.3	140.7	32,900 *	26.8	150.3	34,900 *	34.0	161.5	34,100	39.9	168.8	32,500	45.0	173.5	30,900				130
135				13.3	124.7	29,600 *	20.8	139.0	32,800 *	29.4	153.4	32,500	36.0	162.4	30,900	41.5	168.1	29,400	46.2	171.5	28,000	135
140							12.5	122.3	30,500 *	24.1	143.4	31,000	31.7	154.9	29,500	37.7	162.1	28,100	42.8	166.4	26,700	140
145										17.4	130.2	29,500	26.8	146.0	28,200	33.6	155.1	26,800	39.2	160.7	25,500	145
150										5.1	105.0	28,200	20.9	134.7	26,900	29.0	146.9	25,600	35.2	154.1	24,300	150
155													12.6	118.1	25,700	23.6	136.8	24,500	30.8	146.4	23,300	155
160																16.7	123.2	23,400	25.8	137.1	22,300	160
170																			10.3	106.4	20,400	170

Liftcrane Luffing Jib Capacities

New York City Code

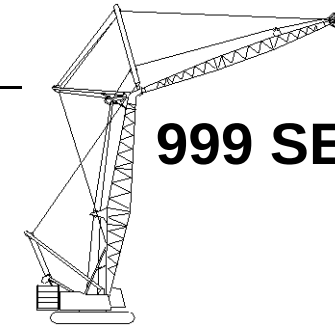
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	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 *																75
80	57.6	207.7	42,100 *	61.6	211.5	45,300 *	66.3	215.4	48,900 *													80
85	55.0	204.4	40,400 *	59.1	208.6	43,500 *	63.9	213.1	47,000 *													85
90	52.2	200.7	38,800 *	61.4	210.5	45,200 *	58.9	207.6	43,500 *	62.7	210.0	45,700 *										90
95	49.4	196.6	37,300 *	56.5	205.5	41,800 *	56.3	204.4	41,800 *													95
100	46.4	192.1	35,900 *	53.8	202.0	40,200 *	60.2	207.3	44,100 *													100
105	43.3	187.1	34,600 *	51.0	198.2	38,600 *	57.7	204.3	42,500 *													105
110	40.0	181.5	33,300 *	48.1	193.9	37,100 *	50.8	197.1	38,600 *													110
115	36.4	175.1	32,200 *	45.1	189.2	35,700 *	47.9	192.8	37,200 *	52.3	197.3	39,400 *	56.3	200.0	39,900							115
120	32.5	167.8	31,100 *	44.9	188.0	34,400 *	49.4	193.2	38,000 *	49.4	193.2	38,000 *	53.6	196.5	37,700							120
125	28.2	159.3	30,100 *	41.6	182.7	34,500 *	46.5	188.7	36,600 *	50.8	192.7	35,700	50.8	192.7	35,700							125
130	23.1	148.9	29,200 *	38.2	176.7	33,200 *	43.3	183.7	35,300 *	47.9	188.4	33,900	47.9	188.4	33,900	52.1	191.2	32,300				130
135	16.6	135.0	26,700 *	34.5	169.9	32,100 *	40.0	178.0	33,900	44.9	183.6	32,300	44.9	183.6	32,300	49.2	187.1	30,700				135
140	4.4	108.0	20,500 *	30.4	162.0	31,000 *	36.5	171.7	32,300	41.7	178.3	30,700	41.7	178.3	30,700	46.2	182.6	29,200				140
145				25.7	152.7	30,100 *	32.6	164.4	30,800	38.2	172.3	29,300	38.2	172.3	29,300	43.1	177.5	27,800	47.4	180.5	26,400	145
150				20.0	140.8	29,200 *	28.2	155.9	29,400	34.5	165.6	28,000	34.5	165.6	28,000	39.8	171.8	26,600	44.3	175.7	25,200	150
155				12.0	123.4	27,400 *	23.1	145.5	28,100	30.4	157.7	26,700	30.4	157.7	26,700	36.2	165.4	25,400	41.0	170.2	24,100	155
160							16.7	131.7	26,900	25.7	148.3	25,600	25.7	148.3	25,600	32.3	158.1	24,300	37.6	164.1	23,000	160
170							4.9	105.4	25,700 *	20.1	136.5	24,500	20.1	136.5	24,500	27.9	149.4	23,300	33.8	157.2	22,100	170
180																16.1	124.7	21,400	24.8	139.3	20,300	180
																9.9	107.3	18,600				

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

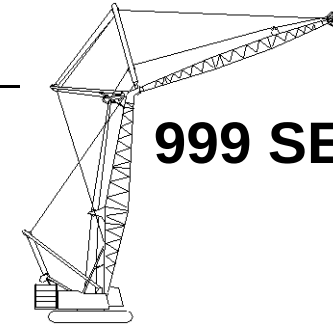
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	31,900 *	52.7	200.0	30,300				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	30,400 *	50.0	196.0	28,800				135
140	22.2	150.9	23,900 *	29.5	166.2	25,500 *	33.2	173.0	26,500 *	38.5	181.6	28,300 *	43.2	187.7	29,000 *	47.3	191.6	27,500				140
145	15.9	136.4	23,200 *	25.1	156.5	24,600 *	29.2	164.7	25,600 *	35.1	174.9	27,200 *	40.1	182.0	27,600 *	44.5	186.7	26,200				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	26,400 *	41.5	181.4	25,100	45.5	184.8	23,700	150
155				12.3	126.9	23,300 *	19.3	142.5	23,900 *	27.2	158.4	25,300 *	33.2	168.6	25,300 *	38.3	175.4	24,000	42.6	179.7	22,700	155
160							11.6	124.4	23,300 *	22.3	147.5	24,400 *	29.3	160.4	24,200 *	34.8	168.6	22,900	39.5	173.9	21,700	160
170										4.7	105.8	23,000 *	19.3	138.2	22,200	26.8	151.9	21,100	32.5	160.1	19,900	170
180																15.5	126.0	19,400	23.8	141.5	18,300	180
190																	9.6	108.2	16,900			190

Liftcrane Luffing Jib Capacities

New York City Code

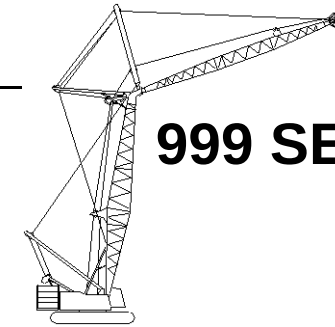
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.7	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	27,400				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	26,100				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	25,000				150
155	15.4	137.8	18,900 *	24.2	158.7	20,200 *	28.2	167.3	21,000 *	33.9	178.0	22,400 *	38.7	185.6	23,900 *	42.9	190.7	23,900	46.6	193.9	22,600	155
160	4.1	108.7	16,400 *	19.0	146.0	19,400 *	23.9	157.0	20,200 *	30.3	170.1	21,500 *	35.5	179.0	23,000 *	40.0	185.1	22,900	43.9	188.9	21,600	160
170							11.2	125.4	18,900 *	21.5	149.5	20,000 *	28.3	162.9	21,200 *	33.6	171.7	21,000	38.1	177.4	19,800	170
180										4.5	106.2	18,900 *	18.7	139.9	19,700 *	25.9	154.2	19,400	31.4	163.0	18,300	180
190																14.9	127.4	17,900	23.0	143.6	16,900	190
200																			9.2	109.0	15,600	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

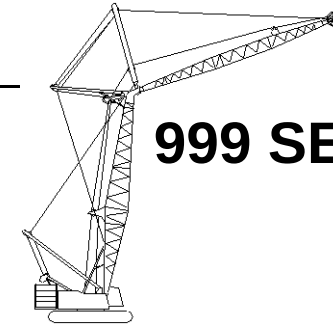
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	21,300	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	19,500	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	17,900	180
190										4.4	106.6	14,300 *	18.1	141.5	15,300 *	25.1	156.5	16,300 *	30.4	165.8	16,500	190
200																14.5	128.7	15,000 *	22.3	145.6	15,300	200
210																			9.0	109.8	14,100	210

Liftcrane Luffing Jib Capacities

New York City Code

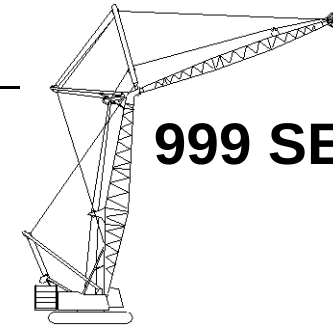
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	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	18,400				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	17,500				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	16,600				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	14,900	46.0	207.2	13,400	170
180	3.9	109.4	10,200 *	17.9	149.3	11,300 *	22.4	161.1	12,100 *	28.4	175.3	13,500 *	33.3	185.2	14,600 *	37.5	192.1	13,500	41.1	196.7	12,000	180
190							10.5	127.3	10,500 *	20.2	153.2	11,700 *	26.5	167.8	13,000 *	31.5	177.5	12,200	35.7	184.1	10,800	190
200										4.2	107.0	10,300 *	17.5	143.1	11,400 *	24.3	158.7	11,000	29.4	168.4	9,700	200
210																14.0	129.9	9,900	21.6	147.5	8,700	210
220																			8.7	110.6	7,800	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

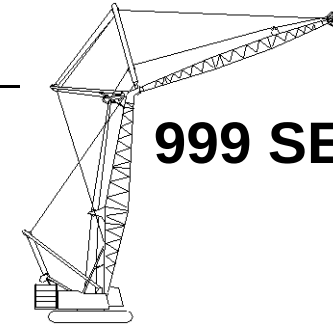
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	94,400 b													60
65	39.2	152.2	78,800 *	49.4	160.2	87,700	54.7	163.3	85,400 b	62.8	166.4	81,600 b										65
70	32.2	145.2	71,600 *	43.7	155.4	80,000	49.5	159.4	77,900	58.1	163.5	74,400 b										70
75	23.4	135.7	63,300 *	37.4	149.6	73,400	43.9	154.7	71,500	53.2	160.1	68,300 b										75
80	8.3	118.1	47,600 *	30.1	142.1	67,800	37.7	148.9	66,000	47.9	156.0	63,100	56.5	159.6	60,200 b							80
85				20.5	131.5	62,800	30.3	141.5	61,200	42.1	151.0	58,500	51.4	156.0	55,800							85
90							20.8	131.1	57,000	35.6	144.8	54,500	45.9	151.6	52,000							90
95										27.8	136.7	51,000	39.9	146.2	48,700	49.2	150.8	46,400				95
100										17.0	124.5	47,800	33.0	139.4	45,600	43.6	146.0	43,500				100
105													24.5	130.3	42,900	37.3	140.1	40,900	46.7	144.4	38,900	105
110													11.1	114.8	40,400	29.9	132.6	38,600	40.7	139.2	36,700	110
115																20.2	121.9	36,400	34.0	132.7	34,700	115
120																			25.7	124.0	32,900	120
125																			13.6	109.9	31,100	125

Liftcrane Luffing Jib Capacities

New York City Code

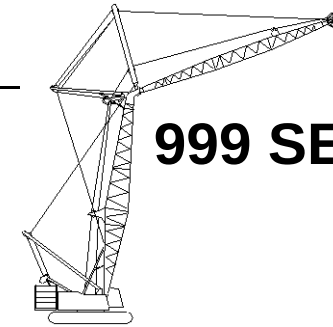
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	68.5	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	96,200 *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	87,900 *b	63.7	177.9	92,300 *b													60
65	47.3	166.7	76,900 *	55.3	172.8	84,000 *	59.7	175.2	85,100 b													65
70	42.2	161.7	71,700 *	50.8	169.0	79,700	55.4	172.0	77,600	62.5	175.0	74,100 b										70
75	36.6	155.6	65,500 *	46.0	164.6	73,200	50.9	168.3	71,200	58.4	172.2	68,000										75
80	30.0	148.0	60,200 *	40.8	159.3	67,600	46.2	163.9	65,800	54.1	168.9	62,800										80
85	21.8	137.7	55,100 *	34.9	152.9	62,700	41.0	158.6	61,000	49.5	164.9	58,200	56.9	168.3	55,500							85
90	7.8	118.8	42,100 *	28.1	144.7	58,400	35.1	152.2	56,900	44.6	160.3	54,300	52.5	164.8	51,700							90
95				19.1	133.3	54,500 *	28.3	144.1	53,200	39.3	154.7	50,700	47.9	160.6	48,300							95
100							19.5	132.8	49,800	33.2	147.9	47,600	42.8	155.6	45,300	50.7	159.6	43,100				100
105										25.9	139.1	44,800	37.2	149.7	42,700	45.9	155.2	40,600				105
110										15.9	126.0	42,200	30.8	142.3	40,200	40.6	149.9	38,300				110
115													22.9	132.4	38,000	34.8	143.4	36,200	43.5	148.6	34,400	115
120													10.4	115.7	35,900	27.9	135.2	34,200	38.0	142.8	32,500	120
125																18.9	123.6	32,500	31.7	135.6	30,900	125
130																			24.1	126.2	29,300	130
135																			12.7	111.1	27,800	135

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

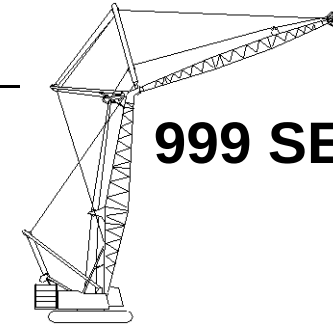
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	77,000 *b	66.8	188.9	80,600 *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	71,000	62.2	183.7	67,700										75
80	39.7	165.4	60,400 *	47.7	173.6	65,500 *	52.0	177.1	65,600	58.6	180.9	62,500										80
85	34.4	158.8	56,000 *	43.2	168.7	62,600	47.8	172.9	60,900	54.7	177.6	58,000										85
90	28.3	150.6	51,900 *	38.4	162.9	58,300	43.4	168.0	56,700	50.7	173.8	54,100	57.3	177.0	51,400							90
95	20.6	139.6	48,000 *	32.9	155.9	54,500	38.5	162.2	53,100	46.5	169.4	50,600	53.4	173.5	48,100							95
100	7.3	119.4	37,100 *	26.4	147.1	50,900 *	33.1	155.3	49,800	41.9	164.2	47,400	49.3	169.5	45,100							100
105				18.0	134.9	47,300 *	26.7	146.6	46,800	36.9	158.2	44,700	45.0	164.9	42,500	51.8	168.4	40,300				105
110							18.4	134.5	44,200	31.2	150.8	42,100	40.3	159.4	40,100	47.6	164.2	38,100				110
115										24.4	141.3	39,800	35.0	152.9	37,900	43.1	159.3	36,000				115
120										15.0	127.3	37,700	29.0	145.0	35,900	38.2	153.4	34,100	45.5	157.8	32,300	120
125													21.6	134.4	34,000	32.7	146.4	32,300	40.9	152.4	30,700	125
130													9.8	116.6	32,300	26.3	137.6	30,700	35.7	146.1	29,100	130
135																17.8	125.2	29,200	29.9	138.4	27,700	135
140																			22.7	128.2	26,400	140
145																			11.9	112.2	25,100	145

Liftcrane Luffing Jib Capacities

New York City Code

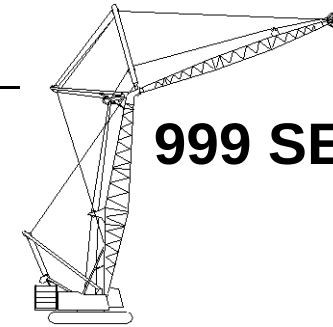
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	71,700 *													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	62,900 *	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	62,200										80
85	42.0	174.9	53,300 *	49.0	182.5	57,900 *	52.8	185.8	60,600	58.7	189.5	57,700										85
90	37.6	168.9	51,400 *	45.1	177.9	55,700 *	49.1	181.8	56,400	55.3	186.3	53,700										90
95	32.6	161.8	48,100 *	40.9	172.5	53,600 *	45.2	177.2	52,800	51.7	182.6	50,200	57.5	185.6	47,700							95
100	26.8	153.0	44,900 *	36.3	166.3	50,700 *	41.0	171.8	49,500	48.0	178.4	47,100	54.1	182.2	44,800							100
105	19.5	141.3	41,900 *	31.2	158.8	47,200 *	36.5	165.6	46,600	44.0	173.5	44,300	50.4	178.4	42,100							105
110	7.0	120.1	33,000 *	25.1	149.4	44,100 *	31.3	158.2	44,000	39.7	168.0	41,800	46.6	174.0	39,700	52.6	177.2	37,700				110
115				17.1	136.5	41,200 *	25.3	148.9	41,600	35.0	161.4	39,600	42.5	168.9	37,600	48.9	173.1	35,600				115
120							17.4	136.1	39,400	29.6	153.5	37,500	38.1	163.0	35,600	45.0	168.5	33,700				120
125										23.2	143.4	35,600	33.2	156.0	33,800	40.8	163.1	32,000	47.1	166.8	30,300	125
130										14.2	128.6	33,800	27.5	147.5	32,100	36.2	156.8	30,400	43.1	161.8	28,800	130
135													20.5	136.2	30,500	31.0	149.3	28,900	38.7	156.1	27,400	135
140													9.3	117.4	29,000	24.9	139.9	27,600	33.8	149.2	26,100	140
145																16.9	126.8	26,300	28.3	140.9	24,900	145
150																			21.5	130.2	23,700	150
155																			11.3	113.2	22,700	155

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

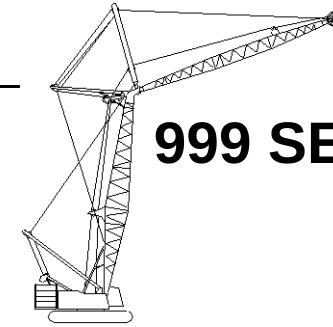
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	57,600										85
90	43.9	184.2	49,600 *	50.1	191.4	53,700 *	53.5	194.6	56,100 *	58.8	198.2	53,700										90
95	40.0	178.6	47,900 *	46.6	187.0	51,700 *	50.2	190.7	52,700	55.7	195.0	50,200										95
100	35.8	172.2	45,200 *	42.9	181.9	49,900 *	46.7	186.2	49,500	52.5	191.4	47,100	57.8	194.3	44,700							100
105	31.0	164.6	42,200 *	38.9	176.2	47,700 *	43.0	181.2	46,600	49.2	187.3	44,300	54.6	191.0	42,100							105
110	25.5	155.3	39,400 *	34.6	169.5	44,500 *	39.1	175.5	44,000	45.6	182.7	41,800	51.4	187.2	39,700							110
115	18.6	143.0	35,600 *	29.7	161.5	41,500 *	34.7	168.8	41,600	41.8	177.5	39,600	47.9	182.9	37,500							115
120	6.6	120.7	27,400 *	23.9	151.6	38,900 *	29.8	160.9	39,400	37.8	171.5	37,500	44.3	178.1	35,600	50.0	182.0	33,700				120
125				16.3	137.9	36,400 *	24.1	151.1	37,400	33.3	164.5	35,600	40.5	172.7	33,800	46.5	177.6	32,000				125
130							16.6	137.6	35,600	28.2	156.1	33,900	36.3	166.3	32,100	42.8	172.5	30,400				130
135										22.1	145.4	32,200	31.6	158.9	30,600	38.8	166.7	29,000	44.8	171.1	27,400	135
140										13.5	129.8	30,700	26.2	149.9	29,200	34.5	160.0	27,600	41.0	165.7	26,100	140
145													19.5	138.0	27,800	29.5	152.0	26,400	36.8	159.5	24,900	145
150													8.9	118.2	26,600	23.7	142.0	25,200	32.2	152.2	23,800	150
155																16.1	128.2	24,100	27.0	143.4	22,700	155
160																			20.5	132.0	21,800	160

Liftcrane Luffing Jib Capacities

New York City Code

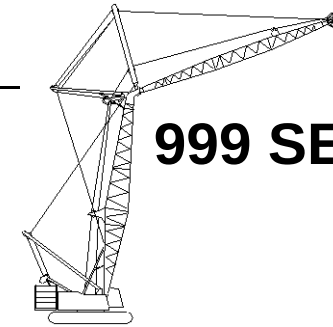
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	51,500 *	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	53,300										90
95	45.4	193.4	43,700 *	51.0	200.3	47,500 *	54.1	203.3	49,700 *	58.9	206.9	49,800										95
100	41.9	188.1	42,100 *	47.8	196.0	45,600 *	51.1	199.5	47,800 *	56.1	203.7	46,800										100
105	38.2	182.2	40,500 *	44.5	191.2	43,900 *	47.9	195.2	45,900 *	53.2	200.1	44,000	57.9	203.0	41,700							105
110	34.2	175.4	39,100 *	41.0	185.8	42,200 *	44.6	190.4	43,700	50.1	196.2	41,500	55.1	199.7	39,300							110
115	29.7	167.3	37,000 *	37.2	179.6	40,700 *	41.1	185.1	41,300	46.9	191.7	39,200	52.1	196.0	37,200							115
120	24.4	157.5	34,700 *	33.1	172.5	38,900 *	37.3	178.9	39,200	43.6	186.8	37,200	49.0	191.9	35,200							120
125	17.8	144.6	31,400 *	28.4	164.1	36,500 *	33.2	171.9	37,200	40.0	181.2	35,300	45.8	187.3	33,400	50.9	190.9	31,600				125
130	6.4	121.2	24,400 *	22.9	153.7	34,300 *	28.5	163.5	35,400	36.1	174.8	33,600	42.4	182.1	31,800	47.7	186.6	30,000				130
135				15.6	139.3	32,200 *	23.1	153.1	33,700	31.8	167.4	32,000	38.7	176.3	30,300	44.4	181.7	28,600				135
140							15.9	139.0	32,100	27.0	158.5	30,500	34.7	169.5	28,900	40.9	176.3	27,300	46.2	180.2	25,700	140
145										21.1	147.3	29,100	30.2	161.7	27,600	37.1	170.1	26,000	42.8	175.1	24,500	145
150										13.0	131.0	27,800	25.1	152.1	26,300	32.9	163.0	24,900	39.2	169.3	23,400	150
155													18.7	139.7	25,200	28.3	154.6	23,800	35.2	162.7	22,400	155
160													8.5	119.0	24,100	22.7	144.1	22,800	30.8	155.0	21,400	160
170																			19.6	133.8	19,700	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

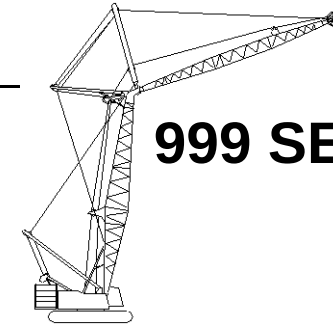
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	39,100 *	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	36,900							115
120	32.8	178.4	31,200 *	39.3	189.4	33,500 *	42.8	194.4	35,000 *	48.0	200.7	37,000	52.8	204.8	35,000							120
125	28.5	169.9	30,200 *	35.7	182.9	32,300 *	39.4	188.7	33,700 *	45.0	196.0	35,100	49.9	200.8	33,200							125
130	23.5	159.7	29,300 *	31.7	175.4	31,300 *	35.8	182.2	32,500 *	41.8	190.7	33,400	47.0	196.3	31,500	51.6	199.7	29,800				130
135	17.1	146.1	28,100 *	27.2	166.6	30,300 *	31.9	174.8	31,500 *	38.4	184.7	31,800	43.9	191.4	30,000	48.8	195.5	28,300				135
140	6.1	121.8	21,900 *	21.9	155.6	29,400 *	27.4	166.0	30,500 *	34.6	178.0	30,300	40.6	185.9	28,600	45.8	190.9	27,000				140
145				15.0	140.7	28,700 *	22.1	155.1	29,600 *	30.6	170.2	28,900	37.1	179.7	27,300	42.6	185.7	25,800	47.4	189.2	24,300	145
150							15.3	140.4	28,800 *	25.9	160.9	27,700	33.3	172.6	26,100	39.2	180.0	24,600	44.3	184.3	23,200	150
155										20.3	149.1	26,500	29.0	164.3	25,000	35.6	173.4	23,600	41.0	178.9	22,200	155
160										12.4	132.1	25,300	24.1	154.3	23,900	31.6	165.9	22,600	37.6	172.8	21,200	160
170													8.2	119.7	22,000	21.8	146.0	20,700	29.6	157.7	19,500	170
180																			18.8	135.5	17,900	180

Liftcrane Luffing Jib Capacities

New York City Code

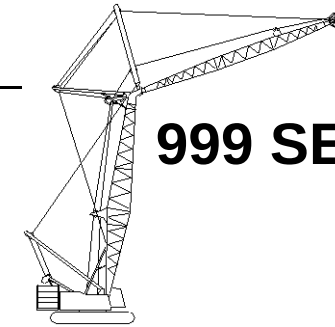
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

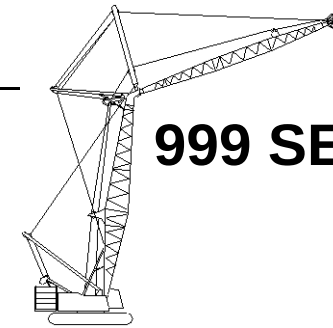
100 Ft. Boom, 140 Ft. Jib

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.8	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	34,600							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	32,800							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	31,200							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	29,700	52.3	208.5	28,000				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	28,300	49.6	204.4	26,600				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	27,000	46.9	199.9	25,400				145
150	5.9	122.3	19,500 *	21.1	157.5	24,100 *	26.4	168.4	25,000 *	33.4	181.0	26,800 *	39.1	189.5	25,800	44.0	195.0	24,300				150
155				14.4	142.0	23,400 *	21.3	157.1	24,200 *	29.4	172.9	25,800 *	35.7	183.0	24,700	41.0	189.6	23,200	45.5	193.5	21,800	155
160							14.7	141.7	23,500 *	24.9	163.1	24,900 *	32.0	175.5	23,600	37.7	183.5	22,200	42.6	188.3	20,800	160
170										12.0	133.2	23,000	23.2	156.4	21,700	30.4	168.7	20,400	36.1	176.1	19,100	170
180													7.9	120.4	20,000	21.0	147.9	18,800	28.5	160.3	17,600	180
190																			18.1	137.1	16,200	190

Liftcrane Luffing Jib Capacities

New York City Code
Luffing Jib No. 135 On Boom No. 82 or 22EL
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	26,500				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	25,300				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	24,200				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	24,600	45.2	204.2	23,100				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	23,600	42.4	199.0	22,100	46.6	202.5	20,700	160
170							14.2	142.9	19,100 *	24.1	165.3	20,400 *	30.9	178.3	21,700	36.4	186.8	20,300	41.1	192.1	19,000	170
180										11.6	134.2	19,100 *	22.4	158.4	20,000	29.4	171.4	18,700	34.9	179.3	17,500	180
190													7.6	121.1	18,400	20.3	149.7	17,300	27.5	162.8	16,200	190
200																			17.5	138.7	14,900	200

Liftcrane Luffing Jib Capacities

New York City Code

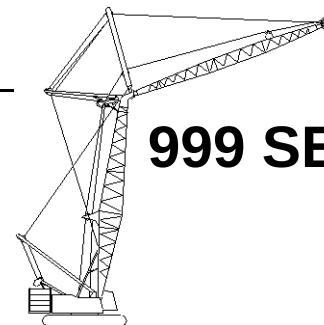
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.8	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	24,500							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	23,200							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	22,000							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	20,800							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	19,700	51.0	222.1	17,700				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	18,700	48.7	217.9	16,800				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	17,800	46.2	213.3	15,900				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	16,100	41.0	202.8	14,300	45.0	206.8	12,600	170
180							13.7	144.2	14,800 *	23.3	167.4	15,900 *	29.9	181.1	14,600	35.2	190.0	12,900	39.7	195.8	11,300	180
190										11.2	135.2	14,800 *	21.7	160.4	13,200	28.4	173.9	11,700	33.7	182.4	10,200	190
200													7.4	121.8	12,000	19.6	151.5	10,500	26.6	165.2	9,100	200
210																			16.9	140.2	8,200	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

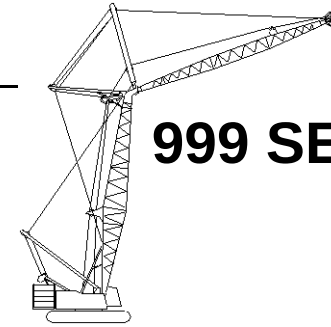
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	22,800							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	21,600							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	20,500							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	19,400							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	18,400	51.6	230.9	16,400				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	17,500	49.4	226.8	15,600				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	15,800	44.8	217.5	14,000				170
180	5.3	123.8	10,200 *	19.2	162.9	11,600 *	23.9	175.0	12,400 *	30.2	189.6	13,900 *	35.3	199.6	14,300	39.8	206.5	12,600	43.6	210.8	11,000	180
190							13.3	145.4	10,800 *	22.6	169.4	12,200 *	29.0	183.7	13,000	34.1	193.2	11,400	38.5	199.4	9,800	190
200										10.9	136.2	10,600 *	21.0	162.3	11,700	27.6	176.4	10,300	32.7	185.4	8,800	200
210													7.1	122.4	10,400 *	19.0	153.2	9,200	25.8	167.5	7,900	210
220																			16.4	141.7	7,000	220

Liftcrane Luffing Jib Capacities

New York City Code

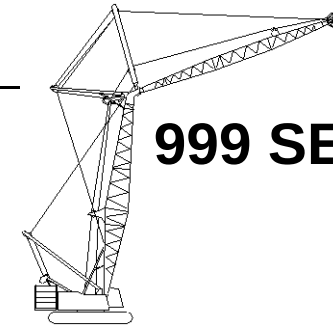
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	61.0	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	93,700 b													60
65	39.6	162.6	79,300 *	50.7	171.1	87,300 b	56.5	174.3	84,700 b													65
70	32.7	155.7	72,100 *	45.2	166.6	79,600	51.4	170.7	77,300 b	60.6	174.7	73,400 b										70
75	24.1	146.5	65,000 *	39.1	161.1	73,100	45.9	166.3	70,900	55.8	171.6	67,400 b										75
80	10.1	130.2	49,700 *	32.0	154.1	67,500	39.9	160.9	65,500	50.7	167.9	62,200										80
85				23.2	144.5	62,600	33.0	154.2	60,800	45.2	163.4	57,700	54.9	167.9	54,700 b							85
90				7.7	126.4	51,100 *	24.5	145.1	56,600	39.1	157.8	53,800	49.7	164.1	50,900							90
95							11.1	129.5	52,800	32.0	150.8	50,300	44.1	159.4	47,600							95
100										23.2	141.3	47,100	37.9	153.6	44,700	48.4	159.2	42,300				100
105										7.8	123.2	44,200	30.6	146.3	42,000	42.7	154.3	39,800				105
110													21.2	136.0	39,600	36.2	148.2	37,500	46.7	153.1	35,400	110
115																28.6	140.3	35,400	40.7	147.9	33,400	115
120																18.3	128.8	33,500	34.0	141.3	31,700	120
125																			25.7	132.6	30,000	125
130																			13.6	118.6	28,400	130

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

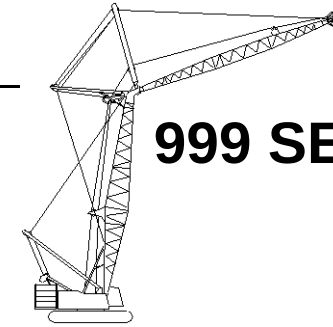
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	85,100 *b	65.1	188.6	89,900 *b													60
65	47.6	177.0	74,000 *	56.3	183.5	81,400 *	61.1	186.0	84,400 b													65
70	42.6	172.0	71,300 *	51.9	179.9	78,000 *	56.9	183.0	77,000													70
75	37.0	166.0	66,500 *	47.2	175.7	72,900	52.5	179.5	70,700	60.5	183.4	67,000 b										75
80	30.5	158.6	61,000 *	42.1	170.6	67,300	47.9	175.3	65,200	56.3	180.3	61,900										80
85	22.5	148.5	55,700 *	36.4	164.5	62,400	42.8	170.4	60,500	51.9	176.7	57,400										85
90	9.5	131.1	43,300 *	29.9	156.8	58,200	37.2	164.4	56,400	47.2	172.4	53,500	55.5	176.6	50,600							90
95				21.6	146.5	54,400	30.8	157.0	52,700	42.1	167.4	50,000	51.1	172.9	47,300							95
100				7.2	127.1	44,700 *	22.9	147.2	49,500	36.4	161.3	46,900	46.3	168.5	44,400							100
105										29.9	153.6	44,100	41.1	163.3	41,700	50.0	168.1	39,400				105
110										21.6	143.3	41,600	35.3	156.9	39,400	45.1	163.5	37,100				110
115										7.3	123.9	39,200	28.6	148.9	37,200	39.8	158.0	35,100				115
120													19.8	137.8	35,200	33.8	151.3	33,200	43.5	157.3	31,300	120
125																26.7	142.8	31,500	38.0	151.4	29,700	125
130																17.1	130.3	29,900	31.7	144.3	28,200	130
135																			24.1	134.8	26,800	135
140																			12.7	119.8	25,500	140

Liftcrane Luffing Jib Capacities

New York City Code

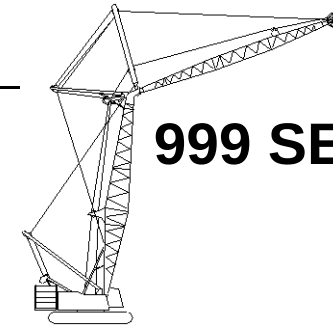
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	74,400 *	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	70,500													75
80	40.0	175.8	60,600 *	48.7	184.6	66,100 *	53.4	188.2	65,100	60.5	192.0	61,600										80
85	34.8	169.3	56,300 *	44.3	179.9	62,300	49.3	184.2	60,400	56.7	189.0	57,200										85
90	28.7	161.2	52,200 *	39.6	174.3	58,100	45.0	179.6	56,300	52.8	185.5	53,300										90
95	21.2	150.5	48,600 *	34.3	167.7	54,300	40.3	174.2	52,600	48.7	181.4	49,800	56.0	185.3	47,000							95
100	8.9	131.9	38,600 *	28.1	159.4	51,000	35.0	167.7	49,400	44.4	176.7	46,700	52.1	181.7	44,100							100
105				20.4	148.3	47,900	29.0	159.7	46,500	39.6	171.1	44,000	48.0	177.5	41,500							105
110				6.8	127.7	40,000 *	21.6	149.1	43,800	34.3	164.4	41,500	43.5	172.6	39,200	51.1	176.9	36,900				110
115							9.8	131.3	41,400	28.1	156.2	39,200	38.7	166.9	37,000	46.9	172.5	34,900				115
120										20.4	145.1	37,100	33.3	160.0	35,100	42.4	167.5	33,000				120
125										6.9	124.5	35,200	26.9	151.4	33,300	37.4	161.5	31,400	45.5	166.4	29,500	125
130													18.7	139.5	31,600	31.8	154.3	29,800	40.9	161.1	28,000	130
135																25.1	145.1	28,300	35.7	154.8	26,600	135
140																16.1	131.8	27,000	29.9	147.0	25,400	140
145																			22.7	136.9	24,200	145
150																			11.9	120.8	23,000	150

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

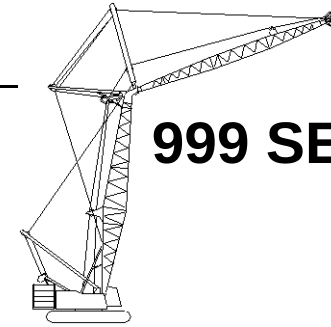
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	72,500 *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	63,500 *	60.9	203.4	66,800 *													75
80	46.4	190.4	55,400 *	53.6	197.5	60,900 *	57.5	200.4	64,200 *													80
85	42.3	185.3	53,400 *	49.9	193.5	58,500 *	54.1	197.0	60,100	60.4	200.7	56,800										85
90	37.9	179.3	51,500 *	46.1	189.0	56,300 *	50.4	193.1	56,000	57.1	197.7	52,900										90
95	33.0	172.3	48,300 *	42.0	183.8	54,100	46.6	188.7	52,300	53.6	194.2	49,500										95
100	27.2	163.7	45,100 *	37.5	177.8	50,700	42.5	183.6	49,100	49.9	190.3	46,400	56.5	194.0	43,700							100
105	20.1	152.3	42,200 *	32.5	170.7	47,700	38.1	177.7	46,200	46.1	185.8	43,700	52.9	190.5	41,200							105
110	8.5	132.6	34,500 *	26.7	161.9	44,900 *	33.2	170.8	43,600	42.0	180.6	41,200	49.3	186.4	38,800							110
115				19.3	150.1	42,000 *	27.5	162.2	41,200	37.5	174.6	38,900	45.4	181.8	36,700	52.1	185.7	34,500				115
120				6.5	128.3	35,900 *	20.5	151.0	39,000	32.5	167.4	36,900	41.2	176.5	34,800	48.3	181.5	32,700				120
125							9.3	132.2	37,000	26.7	158.6	35,000	36.6	170.3	33,000	44.4	176.8	31,000				125
130										19.3	146.9	33,300	31.5	162.9	31,400	40.1	171.2	29,400	47.1	175.5	27,600	130
135										6.5	125.1	31,600	25.5	153.7	29,800	35.4	164.8	28,000	43.1	170.5	26,300	135
140													17.7	141.1	28,400	30.1	157.0	26,700	38.7	164.7	25,000	140
145																23.8	147.2	25,500	33.8	157.9	23,900	145
150																15.3	133.1	24,300	28.3	149.6	22,800	150
155																			21.5	138.8	21,700	155
160																			11.3	121.9	20,800	160

Liftcrane Luffing Jib Capacities

New York City Code

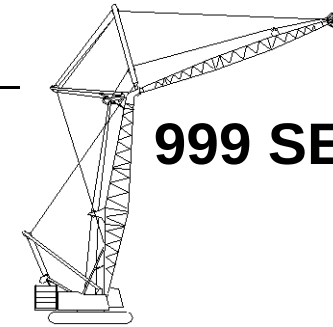
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	72.0	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	55,900	60.4	209.4	52,800										90
95	40.3	189.0	48,000 *	47.5	198.0	52,200 *	51.4	201.9	52,300	57.3	206.3	49,400										95
100	36.1	182.7	45,600 *	43.8	193.1	50,300 *	47.9	197.7	49,100	54.2	202.9	46,400										100
105	31.4	175.2	42,500 *	39.9	187.6	47,700	44.3	192.9	46,200	50.9	199.1	43,600	56.8	202.7	41,100							105
110	25.9	166.1	39,800 *	35.7	181.1	45,100	40.5	187.4	43,600	47.5	194.8	41,200	53.6	199.2	38,800							110
115	19.2	154.0	37,200 *	30.9	173.5	42,400 *	36.3	181.1	41,200	43.8	189.9	38,900	50.3	195.3	36,700							115
120	8.1	133.4	29,200 *	25.4	164.2	39,700 *	31.6	173.7	39,100	39.9	184.3	36,900	46.8	190.9	34,700	52.8	194.5	32,600				120
125				18.4	151.7	37,100 *	26.2	164.6	37,100	35.7	177.9	35,000	43.1	185.9	33,000	49.5	190.4	31,000				125
130				6.2	128.8	30,600 *	19.5	152.7	35,300	30.9	170.3	33,300	39.2	180.2	31,400	46.0	185.9	29,400				130
135							8.9	133.0	33,600	25.4	160.9	31,700	34.9	173.5	29,900	42.2	180.7	28,000				135
140										18.4	148.5	30,300	30.0	165.7	28,500	38.2	174.8	26,700	44.8	179.7	25,000	140
145										6.2	125.6	28,800	24.3	155.9	27,200	33.7	167.9	25,500	41.0	174.3	23,900	145
150													16.9	142.6	26,000	28.7	159.7	24,400	36.8	168.1	22,800	150
155																22.7	149.3	23,300	32.2	160.9	21,800	155
160																14.5	134.4	22,300	27.0	152.1	20,800	160
170																			10.8	122.8	19,100	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

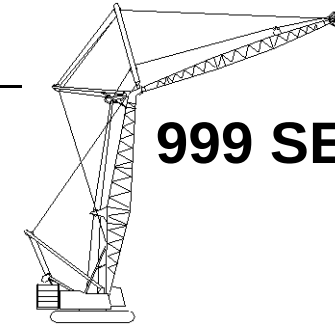
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	46,100 *	60.4	218.0	49,100										95
100	42.2	198.5	39,000 *	48.6	207.0	42,400 *	52.1	210.7	44,400 *	57.6	215.0	46,000										100
105	38.5	192.6	37,700 *	45.3	202.3	40,800 *	49.0	206.6	42,800 *	54.7	211.7	43,300										105
110	34.5	185.9	36,400 *	41.9	197.1	39,400 *	45.8	202.0	41,200 *	51.7	207.9	40,800	57.1	211.4	38,400							110
115	30.0	177.9	35,300 *	38.2	191.1	38,000 *	42.4	196.8	39,800 *	48.6	203.8	38,600	54.2	207.9	36,300							115
120	24.8	168.3	34,300 *	34.1	184.3	36,800 *	38.7	191.0	38,400 *	45.3	199.1	36,600	51.2	204.1	34,400							120
125	18.3	155.7	33,200 *	29.6	176.2	35,700 *	34.7	184.3	36,900	41.9	193.8	34,700	48.0	199.9	32,600							125
130	7.7	134.0	26,100 *	24.3	166.4	34,700 *	30.2	176.4	35,100	38.2	187.9	33,000	44.7	195.1	31,000	50.4	199.3	29,000				130
135				17.6	153.3	33,100 *	25.1	166.9	33,400	34.1	181.0	31,500	41.2	189.7	29,500	47.2	194.9	27,600				135
140				5.9	129.3	27,400 *	18.7	154.4	31,800	29.6	173.0	30,000	37.5	183.6	28,200	43.9	190.0	26,300				140
145							8.5	133.7	30,400	24.3	163.1	28,600	33.3	176.6	26,900	40.3	184.5	25,100	46.2	188.8	23,500	145
150										17.6	150.1	27,400	28.7	168.3	25,700	36.5	178.2	24,000	42.8	183.7	22,400	150
155										5.9	126.1	26,100	23.2	158.0	24,600	32.3	170.9	23,000	39.2	178.0	21,400	155
160													16.2	144.0	23,500	27.5	162.2	22,000	35.2	171.4	20,500	160
170																13.9	135.7	20,200	25.8	154.4	18,800	170
180																			10.3	123.7	17,200	180

Liftcrane Luffing Jib Capacities

New York City Code

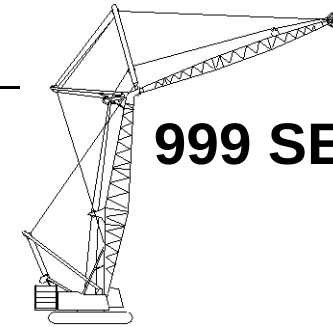
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.9	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	41,200 *	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	40,600										110
115	36.9	196.0	32,400 *	43.5	206.4	35,100 *	47.0	211.1	36,800 *	52.4	216.7	38,400	57.3	220.0	36,000							115
120	33.1	188.9	31,300 *	40.2	200.8	33,900 *	43.9	206.1	35,500 *	49.5	212.7	36,300	54.6	216.7	34,100							120
125	28.8	180.6	30,300 *	36.6	194.5	32,700 *	40.6	200.6	34,200 *	46.6	208.2	34,500	51.9	212.9	32,400							125
130	23.8	170.5	29,400 *	32.7	187.3	31,600 *	37.1	194.4	33,000 *	43.5	203.2	32,800	49.0	208.8	30,800							130
135	17.6	157.2	28,600 *	28.4	178.8	30,600 *	33.3	187.3	31,900 *	40.2	197.6	31,200	46.0	204.2	29,300	51.2	208.1	27,400				135
140	7.4	134.7	23,300 *	23.3	168.5	29,700 *	29.0	179.1	30,900 *	36.6	191.3	29,800	42.9	199.1	27,900	48.3	203.9	26,100				140
145				16.9	154.8	28,900 *	24.1	169.1	29,900 *	32.7	184.0	28,500	39.5	193.4	26,700	45.3	199.2	24,900				145
150				5.7	129.8	24,600 *	17.9	156.0	28,900	28.4	175.6	27,200	35.9	187.0	25,500	42.1	193.9	23,800	47.4	197.8	22,100	150
155							8.2	134.5	27,300 *	23.3	165.3	26,000	32.0	179.5	24,400	38.7	188.1	22,700	44.3	193.0	21,200	155
160										16.9	151.6	24,900	27.5	170.8	23,300	35.0	181.4	21,800	41.0	187.6	20,200	160
170													15.5	145.4	21,400	26.4	164.6	20,000	33.8	174.5	18,600	170
180																13.4	136.9	18,400	24.8	156.6	17,100	180
190																			9.9	124.6	15,700	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

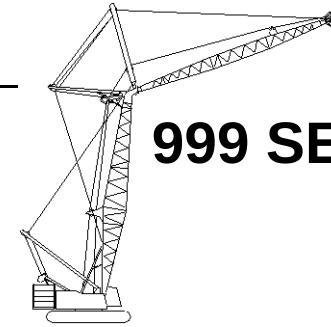
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	33,700							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	32,000							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	30,400							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	28,900							135
140	23.0	172.5	24,100 *	31.5	190.1	26,100 *	35.7	197.7	27,400 *	41.8	207.1	29,500	47.1	213.3	27,600	51.9	216.9	25,700				140
145	17.0	158.8	23,400 *	27.3	181.3	25,100 *	32.0	190.3	26,300 *	38.6	201.2	28,100	44.3	208.4	26,300	49.2	212.8	24,500				145
150	7.1	135.3	20,800 *	22.5	170.5	24,300 *	27.9	181.6	25,400 *	35.2	194.5	26,900	41.2	203.0	25,100	46.4	208.3	23,400				150
155				16.3	156.3	23,600 *	23.2	171.1	24,500 *	31.5	186.9	25,700	38.0	196.9	24,000	43.5	203.3	22,400				155
160				5.5	130.3	22,000 *	17.3	157.6	23,800 *	27.3	178.0	24,600	34.6	190.1	23,000	40.5	197.7	21,400	45.5	202.1	19,900	160
170										16.3	153.1	22,600	26.5	173.2	21,100	33.7	184.5	19,700	39.5	191.2	18,200	170
180													14.9	146.8	19,400	25.4	166.9	18,100	32.5	177.5	16,700	180
190																12.9	138.0	16,600	23.8	158.8	15,400	190
200																			9.6	125.5	14,200	200

Liftcrane Luffing Jib Capacities

New York City Code

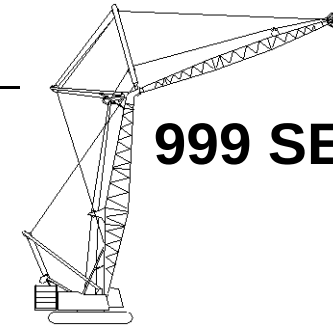
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	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	33,700										110
115	46.2	226.1	26,300 *	51.0	233.6	28,900 *	53.8	237.0	30,500 *	58.1	241.0	31,600										115
120	43.4	221.1	25,200 *	48.5	229.3	27,700 *	51.4	233.2	29,200 *	55.8	237.8	29,800										120
125	40.6	215.5	24,200 *	45.9	224.7	26,500 *	48.9	229.0	28,000 *	53.4	234.2	28,200	57.6	237.4	25,300							125
130	37.6	209.4	23,200 *	43.2	219.6	25,400 *	46.3	224.4	26,800 *	51.0	230.3	26,600	55.4	234.1	23,900							130
135	34.3	202.5	22,200 *	40.3	214.0	24,400 *	43.6	219.4	25,700 *	48.5	226.1	25,200	53.0	230.5	22,600							135
140	30.7	194.6	21,300 *	37.3	207.8	23,300 *	40.7	213.9	24,600 *	45.9	221.5	23,900	50.6	226.5	21,400							140
145	26.8	185.5	20,500 *	34.0	200.8	22,400 *	37.7	207.7	23,600 *	43.2	216.4	22,700	48.1	222.2	20,300	52.4	225.7	17,900				145
150	22.2	174.5	19,700 *	30.4	192.9	21,500 *	34.5	200.9	22,600 *	40.3	210.8	21,600	45.4	217.5	19,300	50.0	221.7	17,000				150
155	16.4	160.2	19,100 *	26.4	183.7	20,700 *	30.9	193.1	21,700 *	37.3	204.6	20,500	42.7	212.4	18,300	47.4	217.3	16,100				155
160	6.9	136.0	18,600 *	21.7	172.5	19,900 *	27.0	184.0	20,900 *	34.0	197.6	19,500	39.8	206.7	17,400	44.8	212.5	15,300				160
170				5.3	130.8	18,800 *	16.7	159.1	19,400 *	26.4	180.4	17,700	33.4	193.2	15,700	39.1	201.3	13,800	43.9	206.2	11,900	170
180										15.8	154.5	16,100	25.6	175.5	14,200	32.5	187.5	12,400	38.1	194.7	10,600	180
190													14.4	148.1	12,900	24.5	169.1	11,200	31.4	180.3	9,500	190
200																12.4	139.1	10,100	23.0	160.9	8,500	200
210																			9.2	126.3	7,600	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

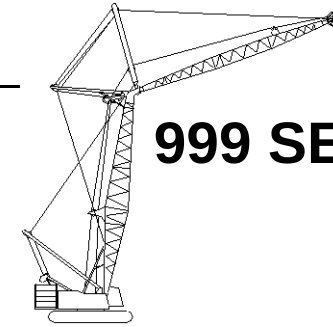
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	23,400							130
135	39.2	219.1	19,400 *	44.4	228.9	21,500 *	47.2	233.4	22,700 *	51.6	239.2	24,800	55.7	242.8	22,100							135
140	36.3	212.7	18,500 *	41.8	223.5	20,500 *	44.7	228.6	21,700 *	49.3	235.0	23,500	53.5	239.2	20,900							140
145	33.2	205.5	17,700 *	39.0	217.6	19,500 *	42.1	223.3	20,700 *	46.9	230.5	22,300	51.2	235.4	19,800							145
150	29.7	197.3	16,900 *	36.0	211.1	18,600 *	39.4	217.5	19,700 *	44.4	225.6	21,100	48.9	231.2	18,800	52.9	234.5	16,500				150
155	25.9	187.8	16,100 *	32.9	203.8	17,800 *	36.5	211.1	18,800 *	41.8	220.3	20,100	46.4	226.6	17,800	50.6	230.5	15,600				155
160	21.5	176.4	15,400 *	29.4	195.6	17,000 *	33.3	203.9	18,000 *	39.0	214.4	19,100	43.9	221.6	16,900	48.3	226.2	14,800				160
170	6.7	136.5	14,400 *	21.0	174.3	15,500 *	26.1	186.4	16,400 *	32.9	200.6	17,300	38.5	210.2	15,300	43.3	216.5	13,300	47.5	220.2	11,400	170
180				5.1	131.3	14,400 *	16.2	160.5	15,000 *	25.5	182.7	15,800	32.3	196.1	13,800	37.8	204.8	12,000	42.5	210.2	10,100	180
190										15.3	155.9	14,300	24.8	177.7	12,500	31.5	190.3	10,800	36.8	198.1	9,100	190
200													14.0	149.3	11,300	23.7	171.2	9,700	30.4	183.1	8,100	200
210																12.1	140.2	8,600	22.3	162.9	7,200	210
220																			9.0	127.1	6,300	220

Liftcrane Luffing Jib Capacities

New York City Code

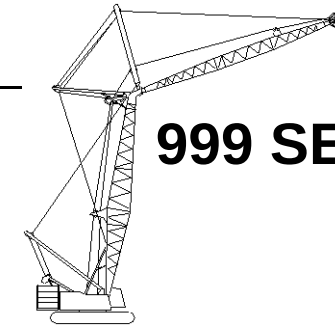
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.0	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	21,800							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	20,600							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	19,500							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	18,400							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	17,500							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	16,600	51.2	239.3	14,400				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	15,000	46.8	230.6	12,900				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	13,500	41.9	220.4	11,600	46.0	224.5	9,800	180
190				5.0	131.7	10,300 *	15.7	161.9	11,100 *	24.8	185.0	12,700 *	31.3	199.0	12,200	36.6	208.2	10,400	41.1	214.0	8,700	190
200										14.8	157.2	11,100 *	24.0	179.9	11,000	30.5	193.1	9,400	35.7	201.4	7,700	200
210													13.6	150.5	10,000	23.0	173.3	8,400	29.4	185.8	6,900	210
220																11.7	141.3	7,500	21.6	164.8	6,000	220
230																			8.7	127.9	5,200	230

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

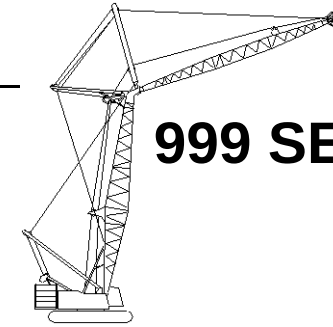
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	100,500 *b																55
60	46.1	178.3	87,100 *	57.0	185.6	96,000 b	62.8	188.1	92,900 b													60
65	40.1	173.0	79,900 *	52.0	182.0	86,800 b	58.1	185.3	84,000 b													65
70	33.2	166.3	72,500 *	46.5	177.7	79,200	53.2	181.9	76,600 b	63.0	185.8	72,300 b										70
75	24.8	157.2	66,400 *	40.6	172.5	72,700	47.9	177.8	70,300	58.3	183.0	66,300 b										75
80	11.6	142.0	51,400 *	33.8	165.9	67,100	42.1	172.8	64,900	53.4	179.6	61,300 b										80
85				25.6	157.1	62,200	35.6	166.6	60,200	48.1	175.5	56,800										85
90				13.2	142.9	56,600 *	27.8	158.5	56,100	42.3	170.5	53,000	53.3	176.2	49,800 b							90
95							17.0	146.3	52,400	35.8	164.4	49,500	48.0	172.1	46,600							95
100										28.1	156.3	46,400	42.2	167.1	43,700	52.9	171.7	41,000				100
105										17.5	144.4	43,600	35.7	160.9	41,100	47.5	167.5	38,600				105
110													27.9	152.9	38,800	41.7	162.5	36,400				110
115													17.3	140.8	36,600	35.1	156.2	34,400	46.7	161.8	32,200	115
120																27.2	147.9	32,500	40.7	156.5	30,500	120
125																16.1	135.3	30,800	34.0	150.0	28,900	125
130																			25.7	141.3	27,400	130
135																			13.6	127.3	26,000	135

Liftcrane Luffing Jib Capacities

New York City Code

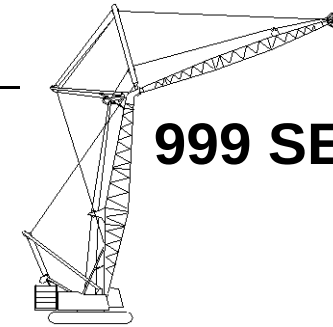
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	65.2	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	89,800 *b																55
60	52.6	191.5	77,200 *	61.5	197.2	85,900 *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	83,700 b													65
70	42.9	182.4	71,500 *	53.0	190.8	78,800 *	58.4	194.0	76,300 b													70
75	37.4	176.5	66,900 *	48.4	186.7	72,500	54.1	190.6	70,000	62.6	194.4	66,000 b										75
80	31.0	169.1	61,400 *	43.4	181.9	66,900	49.5	186.7	64,600	58.5	191.6	60,900 b										80
85	23.1	159.4	56,600 *	37.9	176.0	62,100	44.6	182.0	60,000	54.2	188.3	56,500										85
90	10.9	143.0	44,800 *	31.6	168.8	57,800	39.3	176.5	55,900	49.7	184.4	52,600										90
95				23.9	159.3	54,100	33.2	169.7	52,300	44.8	179.8	49,200	54.2	184.9	46,200							95
100				12.4	144.0	49,200 *	25.9	160.8	49,000	39.5	174.2	46,200	49.6	181.0	43,400							100
105							15.9	147.7	46,100	33.4	167.5	43,400	44.7	176.4	40,800							105
110										26.2	158.7	41,000	39.4	170.8	38,500	49.2	176.5	36,000				110
115										16.3	145.9	38,700	33.3	164.0	36,400	44.3	171.8	34,000				115
120													26.1	155.3	34,400	38.9	166.1	32,200				120
125													16.1	142.3	32,600	32.8	159.2	30,600	43.5	165.9	28,500	125
130																25.4	150.2	29,000	38.0	160.1	27,100	130
135																15.1	136.7	27,600	31.7	152.9	25,800	135
140																			24.1	143.5	24,500	140
145																			12.7	128.4	23,300	145

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

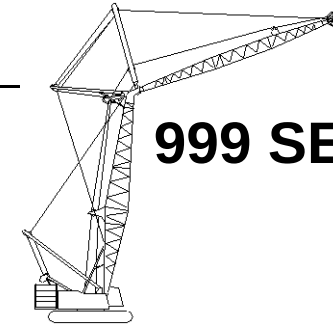
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	78,000 *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	69,800													75
80	40.4	186.2	60,600 *	49.8	195.6	66,700	54.7	199.4	64,400	62.3	203.1	60,600										80
85	35.2	179.8	56,600 *	45.4	191.0	61,900	50.7	195.5	59,800	58.7	200.3	56,300										85
90	29.2	171.8	52,400 *	40.8	185.7	57,700	46.5	191.1	55,700	54.9	197.0	52,400										90
95	21.8	161.3	48,800 *	35.6	179.3	54,000	41.9	186.0	52,100	50.9	193.2	49,000										95
100	10.3	143.9	39,900 *	29.7	171.6	50,700	36.9	179.9	48,900	46.7	188.9	46,000	54.8	193.6	43,100							100
105				22.5	161.4	47,700	31.2	172.5	46,000	42.1	183.7	43,300	50.8	189.8	40,600							105
110				11.7	145.1	44,000 *	24.4	163.1	43,400	37.1	177.7	40,800	46.6	185.4	38,300							110
115							15.0	149.1	41,000	31.5	170.4	38,600	42.0	180.3	36,200	50.5	185.3	33,800				115
120										24.7	161.0	36,600	37.0	174.3	34,300	46.2	180.9	32,000				120
125										15.4	147.3	34,700	31.4	166.9	32,500	41.7	175.7	30,400				125
130													24.6	157.5	30,900	36.6	169.5	28,800	45.5	175.1	26,800	130
135													15.2	143.7	29,400	30.9	162.1	27,500	40.9	169.8	25,500	135
140																24.0	152.4	26,100	35.7	163.4	24,300	140
145																14.2	138.0	24,900	29.9	155.7	23,200	145
150																			22.7	145.5	22,100	150
155																			11.9	129.5	21,100	155

Liftcrane Luffing Jib Capacities

New York City Code

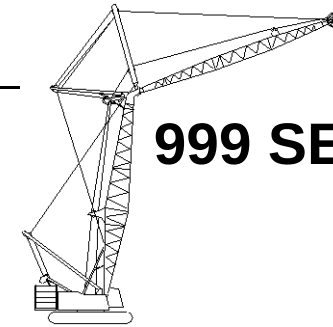
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	70.4	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	61,500 *	58.7	211.3	64,100													80
85	42.6	195.7	53,500 *	50.8	204.4	59,100 *	55.3	208.1	59,500	62.1	211.8	55,900										85
90	38.2	189.8	51,600 *	47.0	200.1	56,800 *	51.7	204.4	55,400	58.8	209.0	52,000										90
95	33.3	182.8	48,500 *	43.0	195.1	53,700	48.0	200.1	51,800	55.4	205.7	48,700										95
100	27.7	174.4	45,300 *	38.6	189.3	50,400	44.0	195.3	48,600	51.9	202.0	45,600										100
105	20.7	163.2	42,400 *	33.8	182.5	47,500	39.7	189.7	45,800	48.1	197.8	42,900	55.4	202.3	40,200							105
110	9.7	144.8	35,700 *	28.2	174.1	44,800	35.0	183.2	43,200	44.1	193.0	40,500	51.8	198.6	37,900							110
115				21.3	163.3	42,300	29.6	175.3	40,800	39.9	187.5	38,300	48.1	194.4	35,800							115
120				11.1	146.1	39,400 *	23.2	165.2	38,700	35.1	181.0	36,300	44.1	189.6	33,900	51.5	194.1	31,600				120
125							14.2	150.4	36,700	29.8	173.1	34,400	39.8	184.1	32,200	47.7	189.9	30,000				125
130										23.4	163.1	32,700	35.1	177.5	30,600	43.7	185.0	28,500				130
135										14.6	148.6	31,100	29.7	169.6	29,100	39.4	179.4	27,100	47.1	184.1	25,100	135
140													23.3	159.6	27,700	34.7	172.8	25,800	43.1	179.2	23,900	140
145													14.4	145.0	26,400	29.3	164.7	24,600	38.7	173.4	22,800	145
150																22.7	154.5	23,500	33.8	166.6	21,800	150
155																13.5	139.2	22,400	28.3	158.3	20,800	155
160																			21.5	147.5	19,900	160

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

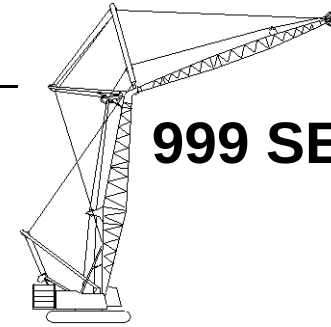
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	61,300 *	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	56,800 *	58.8	220.0	59,400													85
90	44.4	204.9	49,800 *	51.7	213.3	54,600 *	55.7	216.8	55,400	61.9	220.5	52,000										90
95	40.6	199.5	48,100 *	48.3	209.1	52,700 *	52.5	213.1	51,800	58.9	217.6	48,600										95
100	36.4	193.2	45,900 *	44.7	204.3	50,400	49.2	209.1	48,600	55.8	214.4	45,600										100
105	31.7	185.8	42,900 *	40.9	198.9	47,500	45.6	204.5	45,700	52.6	210.8	42,900										105
110	26.4	176.8	40,100 *	36.7	192.7	44,800	41.8	199.2	43,200	49.3	206.8	40,500	55.8	211.0	37,800							110
115	19.7	165.0	37,500 *	32.1	185.4	42,400	37.8	193.2	40,800	45.7	202.2	38,300	52.6	207.4	35,800							115
120	9.3	145.6	30,800 *	26.8	176.6	40,200	33.3	186.2	38,700	42.0	197.0	36,300	49.2	203.4	33,900							120
125				20.3	165.1	37,800 *	28.2	177.8	36,800	37.9	191.0	34,400	45.7	198.8	32,200	52.3	202.9	29,900				125
130				10.5	147.0	34,300 *	22.1	167.2	35,000	33.5	184.0	32,800	41.9	193.6	30,600	48.9	198.8	28,400				130
135							13.5	151.6	33,300	28.4	175.7	31,200	37.9	187.6	29,100	45.4	194.2	27,100				135
140										22.3	165.1	29,700	33.4	180.6	27,800	41.6	188.9	25,800				140
145										13.9	149.9	28,400	28.3	172.2	26,500	37.5	182.9	24,600	44.8	188.4	22,800	145
150													22.2	161.6	25,300	33.0	175.8	23,500	41.0	183.0	21,800	150
155													13.8	146.2	24,200	27.9	167.3	22,500	36.8	176.8	20,800	155
160																21.6	156.4	21,500	32.2	169.5	19,900	160
170																			20.5	149.3	18,300	170

Liftcrane Luffing Jib Capacities

New York City Code

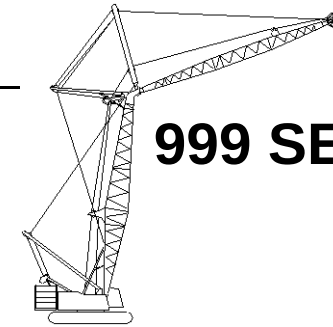
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	48,200										95
100	42.4	208.9	39,100 *	49.4	218.0	42,800 *	53.2	221.9	45,000 *	59.0	226.3	45,200										100
105	38.8	203.1	37,800 *	46.1	213.4	41,200 *	50.1	217.9	43,400 *	56.2	223.1	42,500										105
110	34.8	196.4	36,500 *	42.7	208.3	39,800 *	46.9	213.5	41,800 *	53.3	219.6	40,100										110
115	30.3	188.5	35,400 *	39.1	202.6	38,400 *	43.6	208.6	40,300 *	50.2	215.6	37,900	56.1	219.7	35,400							115
120	25.2	179.0	34,400 *	35.1	196.0	37,100 *	40.0	203.0	38,400	47.0	211.2	35,900	53.2	216.2	33,500							120
125	18.9	166.7	33,400 *	30.7	188.2	36,000 *	36.1	196.6	36,500	43.7	206.3	34,100	50.2	212.2	31,800							125
130	8.9	146.4	27,600 *	25.7	178.9	35,000 *	31.8	189.2	34,700	40.1	200.7	32,400	47.0	207.8	30,200	53.0	211.7	28,000				130
135				19.5	166.9	33,700 *	27.0	180.3	33,100	36.3	194.4	30,900	43.6	202.9	28,800	49.9	207.7	26,700				135
140				10.1	147.9	30,800 *	21.1	169.1	31,500	32.0	187.0	29,500	40.1	197.3	27,400	46.7	203.3	25,400				140
145							13.0	152.8	30,100	27.2	178.2	28,100	36.2	190.9	26,200	43.4	198.3	24,300				145
150										21.3	167.1	26,900	31.9	183.5	25,000	39.8	192.6	23,200	46.2	197.5	21,400	150
155										13.3	151.1	25,700	27.1	174.7	23,900	35.9	186.2	22,200	42.8	192.4	20,400	155
160													21.2	163.5	22,900	31.6	178.7	21,200	39.2	186.6	19,600	160
170																20.7	158.3	19,400	30.8	172.4	17,900	170
180																			19.6	151.1	16,500	180

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

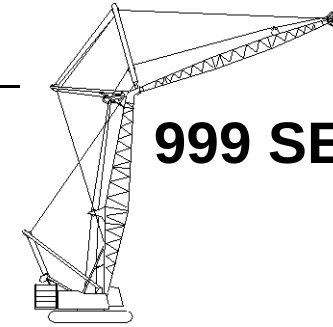
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	42,300										105
110	40.7	212.7	33,600 *	47.3	222.5	36,800 *	50.9	226.8	38,700 *	56.5	231.8	39,900										110
115	37.2	206.5	32,500 *	44.2	217.6	35,500 *	48.0	222.5	37,300 *	53.8	228.3	37,700										115
120	33.4	199.4	31,400 *	41.0	212.2	34,200 *	45.0	217.8	36,000 *	51.0	224.5	35,700	56.5	228.4	33,200							120
125	29.1	191.2	30,400 *	37.5	206.0	33,000 *	41.8	212.5	34,700 *	48.1	220.2	33,900	53.8	224.9	31,500							125
130	24.2	181.2	29,500 *	33.7	199.0	31,900 *	38.4	206.5	33,500 *	45.1	215.5	32,200	51.0	221.1	30,000							130
135	18.1	168.3	28,700 *	29.5	190.9	30,900 *	34.6	199.8	32,300 *	41.9	210.2	30,700	48.1	216.8	28,500							135
140	8.5	147.2	24,600 *	24.7	181.1	29,900 *	30.6	191.9	31,300 *	38.5	204.3	29,300	45.1	212.1	27,200	50.8	216.6	25,200				140
145				18.7	168.6	29,100 *	25.9	182.6	29,900	34.8	197.6	27,900	41.8	206.8	25,900	47.8	212.2	24,000				145
150				9.7	148.8	27,600 *	20.3	170.9	28,600	30.7	189.8	26,700	38.4	200.9	24,800	44.8	207.5	22,900				150
155							12.4	153.9	27,400	26.1	180.5	25,500	34.7	194.1	23,700	41.6	202.1	21,900	47.4	206.5	20,200	155
160										20.5	168.9	24,500	30.6	186.3	22,700	38.1	196.2	21,000	44.3	201.6	19,300	160
170													20.4	165.4	20,800	30.3	181.5	19,200	37.6	190.1	17,700	170
180																19.9	160.1	17,700	29.6	175.0	16,300	180
190																			18.8	152.8	14,900	190

Liftcrane Luffing Jib Capacities

New York City Code

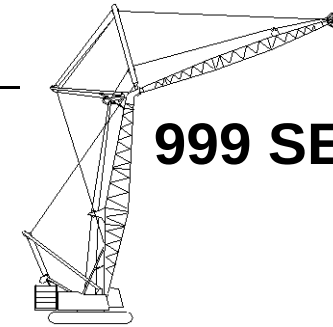
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	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	35,000										105
110	45.2	227.3	30,300 *	51.0	235.7	33,400 *	54.2	239.4	35,300 *	59.2	243.6	32,800										110
115	42.3	222.1	29,100 *	48.3	231.4	32,100 *	51.6	235.6	33,900 *	56.7	240.5	30,900										115
120	39.2	216.3	28,000 *	45.5	226.7	30,800 *	48.9	231.4	32,400	54.3	237.0	29,100										120
125	35.8	209.8	27,000 *	42.5	221.6	29,600 *	46.2	226.9	30,600	51.7	233.3	27,400	56.7	237.1	24,300							125
130	32.1	202.4	25,900 *	39.4	215.8	28,500 *	43.3	221.8	29,000	49.0	229.1	25,900	54.2	233.6	23,000							130
135	28.0	193.7	25,000 *	36.1	209.4	27,400 *	40.2	216.2	27,500	46.3	224.6	24,600	51.7	229.9	21,700							135
140	23.3	183.3	24,200 *	32.4	202.0	26,400 *	36.9	209.9	26,100	43.4	219.5	23,300	49.0	225.7	20,500							140
145	17.4	169.9	23,500 *	28.4	193.5	25,400 *	33.3	202.8	24,800	40.3	214.0	22,100	46.2	221.2	19,400	51.5	225.4	16,900				145
150	8.2	147.9	22,000 *	23.8	183.3	24,600 *	29.4	194.6	23,600	37.0	207.7	21,000	43.3	216.1	18,400	48.8	221.2	15,900				150
155				18.0	170.2	23,800 *	24.9	184.9	22,400	33.5	200.6	20,000	40.3	210.5	17,500	46.0	216.6	15,100				155
160				9.3	149.6	22,800	19.5	172.7	21,400	29.6	192.5	19,000	37.0	204.3	16,600	43.1	211.5	14,300				160
170										19.7	170.7	17,200	29.5	189.0	15,000	36.7	199.5	12,800	42.6	205.6	10,800	170
180													19.7	167.2	13,500	29.2	184.1	11,500	36.1	193.4	9,600	180
190																19.2	161.8	10,400	28.5	177.6	8,500	190
200																			18.1	154.4	7,600	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

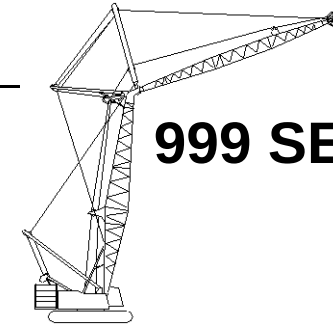
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	32,700										110
115	46.3	236.4	26,400 *	51.6	244.5	29,300 *	54.6	248.1	31,000 *	59.2	252.3	30,700										115
120	43.6	231.4	25,300 *	49.1	240.3	28,000 *	52.2	244.4	29,700 *	57.0	249.2	28,900										120
125	40.8	225.9	24,300 *	46.6	235.8	26,900 *	49.7	240.3	28,400 *	54.7	245.8	27,300										125
130	37.8	219.8	23,300 *	43.9	230.8	25,700 *	47.2	235.9	27,300 *	52.3	242.1	25,800	56.9	245.8	22,800							130
135	34.5	213.0	22,300 *	41.0	225.4	24,700 *	44.5	231.0	26,100 *	49.8	238.0	24,400	54.6	242.4	21,600							135
140	31.0	205.2	21,400 *	38.0	219.3	23,600 *	41.7	225.7	25,000 *	47.3	233.6	23,200	52.2	238.7	20,400							140
145	27.1	196.2	20,600 *	34.8	212.6	22,700 *	38.8	219.8	24,000 *	44.6	228.8	22,000	49.8	234.6	19,300							145
150	22.5	185.4	19,800 *	31.3	204.9	21,800 *	35.6	213.2	23,000 *	41.8	223.4	20,900	47.2	230.2	18,300	52.0	234.2	15,800				150
155	16.8	171.4	19,200 *	27.4	196.0	20,900 *	32.2	205.8	22,100 *	38.9	217.6	19,900	44.6	225.3	17,400	49.6	230.1	15,000				155
160	7.9	148.6	18,700 *	22.9	185.4	20,100 *	28.4	197.2	21,200 *	35.7	211.0	18,900	41.8	220.0	16,500	47.0	225.6	14,200				160
170				9.0	150.4	18,900 *	18.9	174.3	19,400	28.5	195.1	17,100	35.7	207.6	14,900	41.6	215.4	12,700	46.6	219.9	10,600	170
180										19.1	172.4	15,600	28.5	191.6	13,500	35.4	202.8	11,500	41.1	209.5	9,500	180
190													19.0	168.9	12,200	28.2	186.7	10,300	34.9	196.6	8,500	190
200																18.5	163.5	9,200	27.5	180.1	7,500	200
210																			17.5	156.0	6,600	210

Liftcrane Luffing Jib Capacities

New York City Code

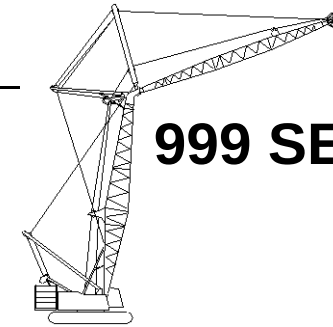
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	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	26,600 *	59.3	260.9	28,500 *										120
125	44.8	240.6	21,400 *	49.9	249.2	23,900 *	52.7	253.1	25,400 *	57.2	257.8	26,800 *										125
130	42.2	235.4	20,400 *	47.5	244.8	22,800 *	50.4	249.2	24,300 *	55.0	254.5	25,300 *										130
135	39.4	229.6	19,500 *	45.0	240.0	21,800 *	48.1	244.9	23,200 *	52.8	250.8	24,000 *	57.1	254.4	21,000 *							135
140	36.5	223.2	18,600 *	42.4	234.8	20,700 *	45.6	240.2	22,100 *	50.5	246.9	22,700 *	55.0	251.1	19,900 *							140
145	33.4	216.0	17,700 *	39.7	229.1	19,800 *	43.0	235.1	21,100 *	48.1	242.6	21,500 *	52.8	247.4	18,800 *							145
150	30.0	207.9	16,900 *	36.8	222.7	18,900 *	40.3	229.4	20,100 *	45.7	237.9	20,400 *	50.5	243.5	17,800 *							150
155	26.2	198.6	16,200 *	33.7	215.6	18,000 *	37.5	223.2	19,200 *	43.1	232.8	19,400 *	48.1	239.2	16,900 *	52.6	242.9	14,500 *				155
160	21.8	187.3	15,500 *	30.3	207.6	17,200 *	34.4	216.4	18,300 *	40.4	227.2	18,500 *	45.7	234.5	16,000 *	50.3	238.9	13,700 *				160
170	7.7	149.3	14,400 *	22.2	187.3	15,700 *	27.5	199.7	16,700 *	34.6	214.2	16,700 *	40.4	223.8	14,500 *	45.4	229.9	12,200 *				170
180				8.7	151.2	14,600 *	18.3	176.0	15,300 *	27.6	197.6	15,200 *	34.5	210.7	13,100 *	40.2	219.1	11,000 *	45.0	224.1	9,000 *	180
190										18.5	174.1	13,800 *	27.6	194.1	11,800 *	34.3	205.9	9,800 *	39.7	213.1	8,000 *	190
200													18.4	170.5	10,600 *	27.2	189.1	8,800 *	33.7	199.7	7,000 *	200
210																17.9	165.1	7,900 *	26.6	182.5	6,200 *	210
220																			16.9	157.5	5,400 *	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

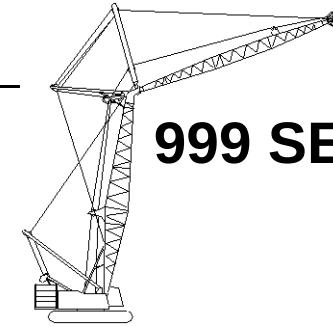
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	19,500							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	18,500							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	17,500							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	16,500							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	15,700	53.0	251.7	13,300				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	14,100	48.7	243.5	11,900				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	12,700	44.0	234.0	10,600				180
190				8.5	152.0	10,500 *	17.7	177.6	11,400 *	26.8	200.0	13,200 *	33.4	213.8	11,500	38.9	222.7	9,500	43.6	228.2	7,600	190
200										17.9	175.7	11,500 *	26.7	196.5	10,300	33.2	209.0	8,500	38.5	216.7	6,700	200
210													17.8	172.1	9,300	26.4	191.5	7,600	32.7	202.7	5,900	210
220																17.4	166.6	6,700	25.8	184.9	5,100	220
230																			16.4	159.0	4,400	230

Liftcrane Luffing Jib Capacities

New York City Code

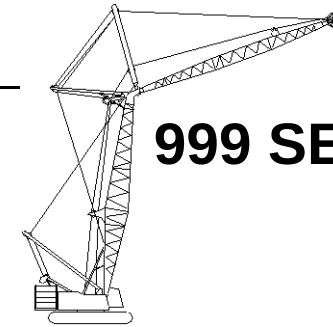
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	61.7	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	95,500 b																60
65	40.5	183.4	80,400 *	53.2	192.9	86,400 b	59.8	196.2	83,200 b													65
70	33.7	176.8	73,000 *	47.9	188.8	78,800	54.9	193.0	75,900 b													70
75	25.4	168.0	66,800 *	42.1	183.8	72,300	49.8	189.1	69,700	60.8	194.1	65,400 b										75
80	13.0	153.6	53,100 *	35.6	177.6	66,800	44.2	184.5	64,400	56.0	191.1	60,400 b										80
85				27.8	169.5	61,900	37.9	178.7	59,700	50.9	187.4	56,000 b										85
90				17.0	157.3	57,600	30.7	171.4	55,600	45.4	182.9	52,200	56.7	188.0	48,700 b							90
95							21.3	161.2	52,000	39.3	177.4	48,800	51.7	184.4	45,600 b							95
100										32.3	170.4	45,800	46.2	180.0	42,800							100
105										23.5	161.0	43,000	40.3	174.7	40,200	52.1	180.2	37,500 b				105
110										8.8	143.7	40,500	33.4	168.0	37,900	46.7	175.9	35,300				110
115													25.0	159.1	35,800	40.8	170.6	33,400				115
120													12.2	144.2	33,900	34.0	164.1	31,600	46.7	170.4	29,300	120
125																25.8	155.4	30,000	40.7	165.2	27,800	125
130																13.7	141.5	28,400	34.0	158.6	26,400	130
135																			25.7	149.9	25,100	135
140																			13.6	135.9	23,800	140

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

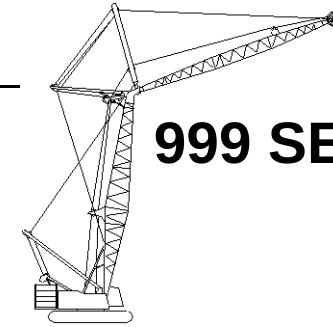
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	90,400 *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	82,900 b													65
70	43.3	192.8	71,600 *	54.1	201.6	78,500	59.8	204.9	75,600 b													70
75	37.8	186.9	67,300 *	49.5	197.7	72,100	55.6	201.7	69,400													75
80	31.5	179.7	61,700 *	44.6	193.0	66,500	51.1	198.0	64,100	60.7	202.8	60,000 b										80
85	23.8	170.2	56,900 *	39.3	187.5	61,700	46.4	193.6	59,400	56.5	199.8	55,600										85
90	12.1	154.7	46,100 *	33.2	180.7	57,500	41.2	188.4	55,400	52.1	196.2	51,800										90
95				26.0	171.9	53,800	35.4	182.0	51,800	47.4	191.9	48,500	57.1	196.6	45,200							95
100				15.9	158.8	50,400	28.6	174.1	48,600	42.3	186.9	45,500	52.8	193.1	42,400							100
105										36.7	180.8	42,800	48.1	189.0	39,900							105
110										30.1	173.2	40,300	43.1	184.1	37,600							110
115										22.0	163.0	38,100	37.6	178.2	35,500	48.5	184.8	33,000				115
120										8.2	144.5	36,000	31.2	170.9	33,700	43.5	180.0	31,200				120
125													23.4	161.2	31,900	38.0	174.2	29,600				125
130													11.4	145.3	30,300	31.8	167.0	28,100	43.5	174.6	26,000	130
135																24.1	157.6	26,800	38.0	168.8	24,700	135
140																12.8	142.6	25,400	31.7	161.6	23,500	140
145																			24.1	152.1	22,400	145
150																			12.7	137.1	21,300	150

Liftcrane Luffing Jib Capacities

New York City Code

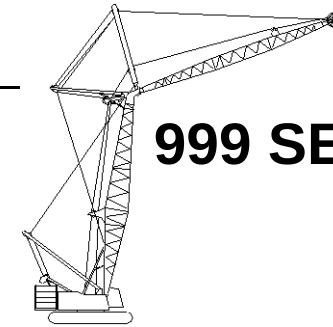
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	68.3	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	75,400 *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	75,300 b													70
75	45.4	202.0	62,900 *	54.8	210.3	69,800 *	59.8	213.5	69,200													75
80	40.7	196.6	60,800 *	50.8	206.5	66,400	56.1	210.4	63,900													80
85	35.6	190.3	56,900 *	46.5	202.1	61,600	52.2	206.8	59,200	60.6	211.5	55,400										85
90	29.7	182.4	52,700 *	42.0	197.0	57,400	48.0	202.6	55,200	56.9	208.4	51,600										90
95	22.4	172.2	49,100 *	37.0	190.9	53,700	43.6	197.7	51,600	53.0	204.9	48,200										95
100	11.4	155.7	41,200 *	31.3	183.5	50,400	38.7	192.0	48,500	48.9	200.9	45,300	57.5	205.3	42,100							100
105				24.5	174.1	47,400	33.3	185.1	45,600	44.5	196.2	42,600	53.6	201.9	39,600							105
110				15.0	160.2	44,700	27.0	176.5	43,000	39.8	190.6	40,200	49.5	197.9	37,400							110
115							18.8	164.7	40,600	34.5	184.0	38,000	45.2	193.3	35,300							115
120										28.4	175.8	36,000	40.5	187.9	33,500	49.9	193.7	31,000				120
125										20.7	164.9	34,100	35.3	181.5	31,800	45.6	189.2	29,400				125
130										7.7	145.2	32,400	29.4	173.6	30,200	40.9	183.9	27,900				130
135													22.0	163.2	28,700	35.8	177.6	26,600	45.5	183.7	24,500	135
140													10.7	146.2	27,300	29.9	169.8	25,300	40.9	178.4	23,300	140
145																22.7	159.7	24,100	35.7	172.1	22,200	145
150																12.0	143.7	23,000	29.9	164.3	21,200	150
155																			22.7	154.2	20,300	155
160																			11.9	138.2	19,300	160

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

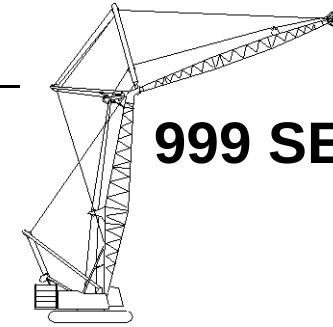
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	64,500 *	63.1	224.9	68,300 *													75
80	47.0	211.0	55,600 *	55.3	219.0	62,000 *	59.9	222.2	63,500													80
85	42.9	206.0	53,600 *	51.7	215.3	59,600 *	56.5	219.1	58,900													85
90	38.5	200.2	51,800 *	48.0	211.1	57,100	53.0	215.5	54,900	60.5	220.1	51,200										90
95	33.7	193.4	48,800 *	44.0	206.3	53,400	49.3	211.5	51,300	57.2	217.1	47,900										95
100	28.1	185.0	45,500 *	39.7	200.7	50,100	45.4	206.9	48,200	53.7	213.7	44,900										100
105	21.2	174.1	42,600 *	35.0	194.2	47,200	41.2	201.6	45,300	50.1	209.7	42,200	57.7	214.0	39,200							105
110	10.8	156.7	36,800 *	29.6	186.3	44,500	36.7	195.4	42,800	46.2	205.3	39,800	54.3	210.6	37,000							110
115				23.2	176.2	42,100	31.6	188.0	40,400	42.1	200.1	37,700	50.6	206.8	34,900							115
120				14.2	161.4	39,800	25.6	178.9	38,300	37.6	194.1	35,700	46.8	202.4	33,100							120
125							17.8	166.3	36,300	32.7	187.0	33,900	42.8	197.3	31,400	50.9	202.6	29,000				125
130										26.9	178.3	32,200	38.4	191.5	29,800	47.1	198.2	27,500				130
135										19.6	166.7	30,600	33.5	184.6	28,400	43.1	193.3	26,200				135
140										7.3	145.8	29,100	27.8	176.2	27,100	38.7	187.5	25,000	47.1	192.8	22,900	140
145													20.9	165.1	25,800	33.9	180.7	23,800	43.1	187.8	21,800	145
150													10.2	147.1	24,600	28.3	172.4	22,700	38.7	182.0	20,800	150
155																21.5	161.6	21,700	33.8	175.2	19,900	155
160																11.4	144.7	20,700	28.3	166.9	19,000	160
170																			11.3	139.2	17,400	170

Liftcrane Luffing Jib Capacities

New York City Code

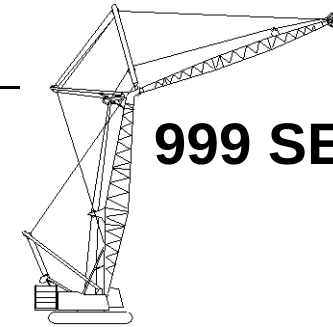
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	72.4	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	61,700 *	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	58,900													85
90	44.7	215.3	49,900 *	52.5	224.1	55,100 *	56.8	227.8	54,800													90
95	40.8	209.9	48,200 *	49.2	220.1	53,100 *	53.6	224.3	51,300	60.5	228.8	47,800										95
100	36.7	203.6	46,200 *	45.6	215.5	50,100	50.3	220.4	48,100	57.5	225.8	44,900										100
105	32.1	196.3	43,100 *	41.9	210.2	47,200	46.9	216.0	45,300	54.3	222.4	42,200										105
110	26.8	187.4	40,300 *	37.8	204.2	44,500	43.2	211.0	42,700	51.0	218.6	39,800	57.9	222.7	36,900							110
115	20.2	175.9	37,700 *	33.3	197.2	42,100	39.2	205.3	40,400	47.6	214.3	37,600	54.8	219.3	34,900							115
120	10.3	157.7	32,200 *	28.2	188.8	39,900	34.9	198.6	38,300	44.0	209.4	35,700	51.5	215.6	33,100							120
125				22.1	178.2	37,900	30.1	190.8	36,400	40.1	203.9	33,900	48.1	211.4	31,400							125
130				13.6	162.7	36,000 *	24.4	181.1	34,600	35.8	197.5	32,200	44.5	206.6	29,800	51.8	211.4	27,500				130
135							17.0	167.8	32,900	31.1	189.9	30,700	40.7	201.2	28,400	48.4	207.2	26,200				135
140										25.6	180.6	29,300	36.5	194.9	27,100	44.8	202.5	24,900				140
145										18.7	168.4	27,900	31.9	187.5	25,800	41.0	197.1	23,800				145
150										7.0	146.5	26,600	26.5	178.6	24,700	36.9	190.9	22,700	44.8	197.0	20,800	150
155													19.9	166.9	23,600	32.3	183.7	21,700	41.0	191.7	19,900	155
160													9.7	148.0	22,600	27.0	174.9	20,800	36.8	185.5	19,000	160
170																10.9	145.7	19,000	27.0	169.4	17,500	170
180																			10.8	140.1	16,000	180

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

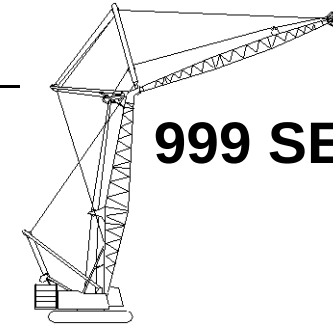
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	51,000 *													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	44,800 *	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	44,500										100
105	39.0	213.5	37,900 *	46.9	224.5	41,600 *	51.2	229.2	44,000 *	57.7	234.5	41,800										105
110	35.1	206.9	36,700 *	43.6	219.6	40,200 *	48.1	225.0	42,400 *	54.8	231.1	39,500										110
115	30.7	199.1	35,500 *	40.0	214.0	38,800 *	44.8	220.2	40,100	51.8	227.4	37,300										115
120	25.6	189.8	34,500 *	36.1	207.6	37,500 *	41.3	214.8	38,000	48.7	223.2	35,300	55.2	228.0	32,700							120
125	19.4	177.7	33,200 *	31.9	200.2	36,300 *	37.5	208.7	36,100	45.5	218.6	33,500	52.3	224.4	31,000							125
130	9.9	158.5	28,800 *	27.0	191.3	35,300 *	33.4	201.7	34,400	42.0	213.3	31,900	49.2	220.3	29,500							130
135				21.1	180.1	34,100	28.7	193.4	32,700	38.3	207.4	30,400	46.0	215.7	28,000	52.5	220.2	25,800				135
140				13.0	163.8	32,100 *	23.3	183.2	31,200	34.3	200.6	29,000	42.5	210.6	26,700	49.4	216.1	24,500				140
145							16.2	169.3	29,800	29.8	192.6	27,600	38.9	204.8	25,500	46.2	211.6	23,400				145
150										24.5	182.9	26,400	34.9	198.1	24,400	42.8	206.5	22,400				150
155										17.9	170.0	25,300	30.5	190.3	23,300	39.2	200.7	21,400	46.2	206.1	19,500	155
160										6.7	147.1	24,100	25.4	180.9	22,300	35.2	194.2	20,500	42.8	201.1	18,600	160
170													9.3	148.8	20,400	25.8	177.2	18,800	35.2	188.7	17,100	170
180																10.4	146.6	17,200	25.8	171.7	15,700	180
190																			10.3	141.1	14,400	190

Liftcrane Luffing Jib Capacities

New York City Code

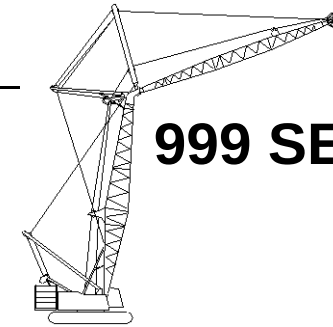
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.2	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	41,700 *	59.9	248.2	43,900 *													95
100	47.3	233.4	36,300 *	53.7	241.6	40,100 *	57.3	245.1	41,300	62.9	248.8	36,900										100
105	44.2	228.5	35,000 *	50.9	237.8	38,600 *	54.7	241.7	38,700	60.4	246.1	34,500										105
110	40.9	223.1	33,700 *	48.0	233.5	37,200 *	51.9	238.0	36,300	57.8	243.1	32,400										110
115	37.4	216.9	32,600 *	45.0	228.7	35,800 *	49.0	233.9	34,200	55.2	239.8	30,500										115
120	33.7	210.0	31,500 *	41.8	223.5	34,500	46.1	229.3	32,300	52.5	236.2	28,700										120
125	29.4	201.8	30,500 *	38.4	217.5	32,600	42.9	224.2	30,500	49.6	232.1	27,100	55.6	236.7	23,800							125
130	24.6	192.0	29,600 *	34.7	210.8	30,900	39.6	218.5	28,900	46.7	227.6	25,600	52.9	233.1	22,400							130
135	18.6	179.4	28,800 *	30.6	203.0	29,300	36.0	212.1	27,400	43.6	222.7	24,300	50.1	229.2	21,200							135
140	9.5	159.4	25,700 *	25.9	193.6	27,800	32.0	204.7	26,000	40.3	217.1	23,000	47.1	224.8	20,100							140
145				20.3	181.9	26,400	27.6	195.9	24,700	36.7	210.8	21,800	44.1	219.9	19,000	50.3	225.0	16,200				145
150				12.5	164.9	25,100	22.4	185.2	23,500	32.9	203.6	20,800	40.8	214.4	18,000	47.4	220.6	15,400				150
155							15.6	170.7	22,400	28.6	195.2	19,700	37.3	208.2	17,100	44.3	215.8	14,500				155
160										23.5	185.0	18,800	33.5	201.2	16,200	41.1	210.3	13,800	47.4	215.2	11,400	160
170										6.4	147.6	16,900	24.4	183.1	14,700	33.8	197.3	12,400	41.0	204.9	10,100	170
180													8.9	149.6	13,200	24.8	179.4	11,100	33.8	191.8	9,000	180
190																10.0	147.5	9,900	24.8	174.0	8,000	190
200																			9.9	142.0	7,000	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

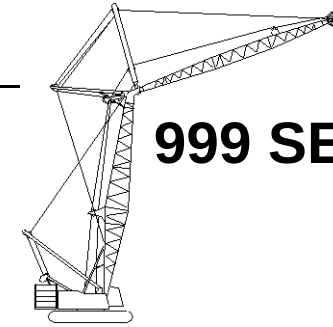
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	259.6	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	34,000										105
110	45.4	237.7	30,400 *	51.6	246.6	33,800 *	55.0	250.4	35,800 *	60.4	254.8	31,900										110
115	42.5	232.5	29,200 *	49.0	242.4	32,400 *	52.5	246.8	33,800	58.0	251.8	30,000										115
120	39.4	226.7	28,100 *	46.2	237.8	31,200 *	49.9	242.8	31,900	55.6	248.5	28,200										120
125	36.0	220.3	27,100 *	43.3	232.8	30,000 *	47.2	238.3	30,100	53.0	244.9	26,600										125
130	32.4	212.9	26,000 *	40.2	227.2	28,800 *	44.3	233.5	28,500	50.4	241.0	25,200	55.9	245.4	21,900							130
135	28.3	204.4	25,100 *	36.9	220.9	27,700 *	41.3	228.1	27,000	47.7	236.6	23,800	53.4	241.9	20,700							135
140	23.7	194.1	24,300 *	33.4	213.8	26,700 *	38.1	222.0	25,600	44.9	231.9	22,600	50.8	238.0	19,600							140
145	17.9	181.0	23,600 *	29.4	205.6	25,700 *	34.6	215.2	24,300	41.9	226.6	21,400	48.1	233.7	18,500							145
150	9.2	160.2	23,000 *	25.0	195.9	24,800 *	30.8	207.5	23,100	38.8	220.7	20,300	45.3	229.0	17,500	51.0	233.8	14,800				150
155				19.6	183.7	23,700	26.6	198.3	22,000	35.4	214.1	19,300	42.4	223.8	16,600	48.4	229.6	14,000				155
160				12.0	166.0	22,500	21.6	187.1	21,000	31.6	206.5	18,400	39.2	218.0	15,800	45.6	224.9	13,300				160
170										22.7	187.0	16,600	32.2	204.1	14,200	39.5	214.0	11,900	45.5	219.5	9,600	170
180										6.2	148.2	15,000	23.5	185.2	12,800	32.5	200.2	10,600	39.5	208.5	8,500	180
190													8.6	150.4	11,500	23.9	181.6	9,500	32.5	194.8	7,500	190
200																9.6	148.4	8,400	23.8	176.1	6,600	200
210																			9.6	142.8	5,700	210

Liftcrane Luffing Jib Capacities

New York City Code

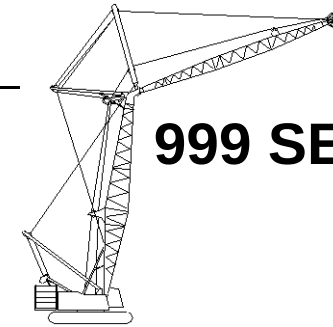
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.2	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	31,700										110
115	46.5	246.8	26,500 *	52.2	255.4	29,600 *	55.4	259.2	31,400 *	60.4	263.4	29,800										115
120	43.8	241.8	25,400 *	49.7	251.3	28,400 *	53.0	255.5	30,200 *	58.1	260.5	28,100										120
125	41.0	236.3	24,400 *	47.2	246.9	27,200 *	50.6	251.6	28,900 *	55.9	257.2	26,500										125
130	38.0	230.2	23,400 *	44.5	242.0	26,000 *	48.1	247.3	27,700 *	53.5	253.7	25,000										130
135	34.8	223.5	22,400 *	41.7	236.7	25,000 *	45.5	242.6	26,600 *	51.1	249.8	23,700	56.2	254.1	20,500							135
140	31.3	215.8	21,500 *	38.8	230.8	23,900 *	42.7	237.5	25,500 *	48.6	245.6	22,400	53.9	250.6	19,400							140
145	27.4	206.9	20,700 *	35.6	224.2	23,000 *	39.8	231.8	24,200	46.0	241.0	21,300	51.5	246.8	18,400							145
150	22.9	196.2	19,900 *	32.2	216.8	22,000 *	36.7	225.4	23,100	43.3	235.9	20,200	49.0	242.7	17,400							150
155	17.3	182.5	19,300 *	28.4	208.2	21,200 *	33.4	218.3	22,000	40.4	230.3	19,200	46.4	238.1	16,500	51.7	242.6	13,900				155
160	8.8	161.0	18,700 *	24.1	198.1	20,400 *	29.8	210.2	20,900	37.4	224.1	18,300	43.7	233.1	15,700	49.2	238.5	13,100				160
170				11.6	167.0	19,000 *	20.8	189.0	19,000	30.5	209.3	16,600	37.9	221.5	14,100	43.9	229.0	11,700				170
180										21.9	189.0	15,000	31.1	207.0	12,700	38.1	217.5	10,500	43.9	223.6	8,400	180
190										6.0	148.7	13,600	22.7	187.2	11,500	31.4	203.1	9,400	38.1	212.1	7,400	190
200													8.3	151.2	10,300	23.1	183.7	8,400	31.4	197.6	6,500	200
210																9.3	149.2	7,500	23.0	178.2	5,700	210
220																			9.2	143.6	4,900	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

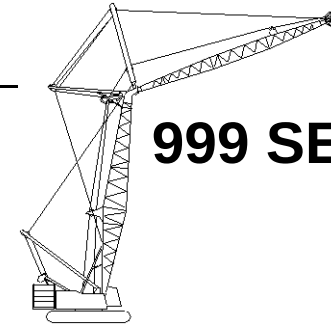
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	29,300										115
120	47.4	255.8	22,600 *	52.7	264.1	25,400 *	55.7	267.8	27,100 *	60.3	272.1	27,600										120
125	45.0	251.0	21,500 *	50.4	260.2	24,200 *	53.5	264.3	25,900 *	58.3	269.1	26,000										125
130	42.4	245.7	20,500 *	48.1	255.9	23,100 *	51.2	260.4	24,700 *	56.1	265.9	24,500										130
135	39.6	240.0	19,600 *	45.6	251.2	22,100 *	48.9	256.2	23,600 *	53.9	262.4	23,200										135
140	36.7	233.6	18,700 *	43.0	246.0	21,000 *	46.5	251.7	22,500 *	51.7	258.6	22,000	56.5	262.8	18,900							140
145	33.6	226.5	17,800 *	40.4	240.4	20,100 *	43.9	246.7	21,500 *	49.4	254.5	20,800	54.3	259.4	17,900							145
150	30.2	218.5	17,000 *	37.5	234.2	19,200 *	41.3	241.3	20,500 *	47.0	250.0	19,800	52.0	255.6	16,900							150
155	26.5	209.3	16,300 *	34.5	227.4	18,300 *	38.5	235.3	19,600 *	44.5	245.1	18,800	49.7	251.5	16,000							155
160	22.1	198.2	15,600 *	31.2	219.6	17,400 *	35.5	228.7	18,700 *	41.9	239.8	17,800	47.3	247.1	15,200	52.2	251.4	12,600				160
170	8.6	161.7	14,500 *	23.3	200.2	15,900 *	28.8	212.8	17,000 *	36.2	227.5	16,100	42.3	237.1	13,700	47.5	243.0	11,200				170
180				11.3	168.0	14,700 *	20.1	190.8	15,600 *	29.6	212.0	14,600	36.6	224.9	12,300	42.5	233.0	10,000	47.5	237.5	7,800	180
190										21.2	190.9	13,300	30.1	209.7	11,100	36.9	220.9	9,000	42.5	227.5	6,900	190
200										5.8	149.2	11,900	21.9	189.2	10,000	30.4	205.9	8,000	36.8	215.5	6,000	200
210													8.1	151.9	8,900	22.3	185.7	7,100	30.4	200.4	5,200	210
220																9.0	150.0	6,200	22.3	180.2	4,500	220

Liftcrane Luffing Jib Capacities

New York City Code

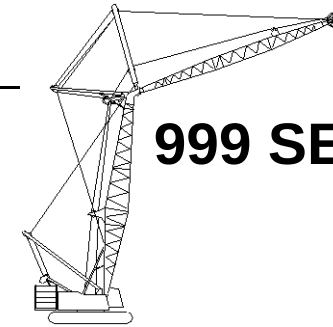
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.3	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	25,600 *										125
130	45.9	260.1	18,400 *	51.0	269.0	20,900 *	53.9	273.0	22,400 *	58.4	277.8	24,200 *										130
135	43.5	255.0	17,500 *	48.8	264.8	19,900 *	51.8	269.2	21,300 *	56.4	274.6	22,900 *										135
140	41.0	249.5	16,600 *	46.5	260.2	18,900 *	49.6	265.1	20,300 *	54.3	271.1	21,600 *										140
145	38.4	243.5	15,800 *	44.2	255.3	17,900 *	47.3	260.7	19,300 *	52.2	267.4	20,500 *	56.7	271.5	17,500 *							145
150	35.6	236.9	15,000 *	41.7	249.9	17,000 *	45.0	255.9	18,300 *	50.0	263.4	19,400 *	54.6	268.1	16,500 *							150
155	32.6	229.5	14,300 *	39.1	244.0	16,200 *	42.6	250.7	17,400 *	47.8	259.0	18,400 *	52.5	264.4	15,700 *							155
160	29.3	221.2	13,500 *	36.3	237.6	15,400 *	40.0	245.0	16,600 *	45.5	254.3	17,500 *	50.4	260.4	14,800 *							160
170	21.5	200.1	12,000 *	30.2	222.3	13,900 *	34.4	231.8	14,900 *	40.5	243.6	15,800 *	45.8	251.4	13,300 *	50.5	256.2	10,900 *				170
180	8.3	162.5	10,500 *	22.6	202.2	12,300 *	27.9	215.3	13,500 *	35.0	230.7	14,300 *	40.9	240.8	12,000 *	46.0	247.3	9,700 *				180
190				10.9	169.0	10,700 *	19.5	192.6	11,800 *	28.7	214.6	13,000 *	35.5	228.1	10,800 *	41.1	236.8	8,600 *	46.0	241.9	6,500 *	190
200										20.6	192.7	11,700 *	29.2	212.3	9,700 *	35.7	224.2	7,600 *	41.1	231.3	5,700 *	200
210										5.6	149.7	10,500 *	21.3	191.1	8,700 *	29.5	208.5	6,800 *	35.7	218.7	4,900 *	210
220													7.8	152.6	7,700 *	21.6	187.6	5,900 *	29.4	203.1	4,200 *	220
230																8.8	150.8	5,200 *				230

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

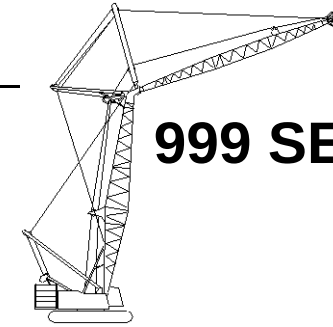
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	94,900 b																60
65	41.0	193.8	81,000 *	54.4	203.7	85,800 b	61.4	207.0	82,400 b													65
70	34.2	187.3	73,500 *	49.2	199.8	78,300	56.7	204.0	75,200 b													70
75	26.1	178.7	66,000 *	43.6	195.0	71,900	51.6	200.4	69,000 b													75
80	14.2	165.1	51,800 *	37.3	189.1	66,300	46.2	196.1	63,700	58.5	202.4	59,400 b										80
85				29.9	181.6	61,500	40.2	190.7	59,100	53.5	199.0	55,100 b										85
90				20.2	170.9	57,300	33.3	184.0	55,100	48.3	195.0	51,300										90
95							24.9	175.1	51,500	42.5	190.0	48,000	55.1	196.3	44,500 b							95
100							12.0	160.1	48,200	36.1	183.9	45,000	50.0	192.5	41,700							100
105										28.4	176.0	42,300	44.4	187.8	39,300							105
110										18.0	164.3	39,900	38.2	182.2	37,000	51.3	188.6	34,100 b				110
115													31.0	174.9	35,000	45.8	184.2	32,300				115
120													21.8	164.8	33,100	39.8	178.8	30,600				120
125																32.9	172.0	29,000	46.7	179.1	26,600	125
130																24.3	162.8	27,500	40.7	173.9	25,300	130
135																10.6	146.9	26,100	34.0	167.3	24,000	135
140																			25.7	158.6	22,800	140
145																			13.6	144.6	21,700	145

Liftcrane Luffing Jib Capacities

New York City Code

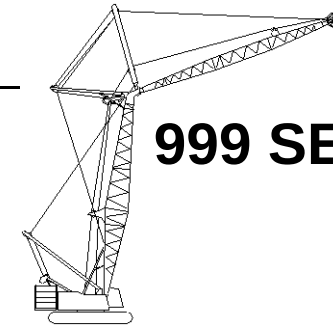
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	65.7	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	87,200 *b																60
65	48.6	207.9	74,300 *	59.4	215.6	83,600 *b	65.3	218.2	82,100 b													65
70	43.7	203.1	71,700 *	55.2	212.4	78,000	61.3	215.7	74,800 b													70
75	38.2	197.4	67,700 *	50.7	208.6	71,600	57.1	212.7	68,700 b													75
80	32.0	190.3	62,100 *	45.9	204.2	66,100	52.7	209.2	63,400	62.8	213.9	58,900 b										80
85	24.4	180.9	56,400 *	40.6	198.9	61,300	48.1	205.1	58,800	58.7	211.1	54,700 b										85
90	13.3	166.3	45,000 *	34.8	192.4	57,200	43.0	200.1	54,800	54.4	207.7	50,900										90
95				27.9	184.2	53,400	37.5	194.2	51,300	49.8	203.9	47,600										95
100				18.9	172.6	50,100	31.1	186.9	48,100	45.0	199.3	44,700	55.8	205.0	41,300							100
105							23.3	177.2	45,200	39.7	193.8	42,000	51.3	201.3	38,900							105
110							11.2	161.1	42,600	33.7	187.1	39,700	46.6	196.9	36,700							110
115										26.5	178.4	37,500	41.4	191.8	34,600	52.4	197.4	31,800				115
120										16.8	165.8	35,500	35.7	185.5	32,800	47.7	193.2	30,200				120
125													29.0	177.6	31,100	42.7	188.3	28,600				125
130													20.4	166.7	29,500	37.1	182.3	27,200				130
135																30.7	174.8	25,800	43.5	183.2	23,600	135
140																22.7	164.9	24,600	38.0	177.4	22,500	140
145																10.0	147.8	23,400	31.7	170.2	21,400	145
150																			24.1	160.8	20,400	150
155																			12.7	145.7	19,400	155

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

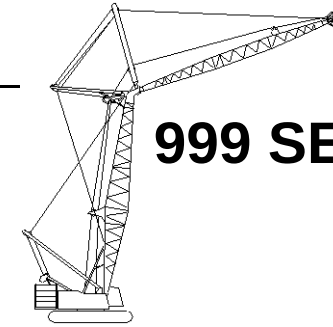
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	73,000 *	64.7	226.9	74,600 b													70
75	45.7	212.3	62,900 *	55.7	221.1	70,300 *	61.1	224.4	68,500													75
80	41.1	207.0	60,800 *	51.8	217.4	65,900	57.4	221.4	63,200													80
85	35.9	200.7	57,200 *	47.6	213.2	61,200	53.5	217.9	58,600	62.5	222.5	54,400 b										85
90	30.1	193.0	53,000 *	43.1	208.3	57,000	49.5	214.0	54,600	58.8	219.7	50,700										90
95	23.0	183.0	49,300 *	38.2	202.4	53,300	45.1	209.4	51,100	55.0	216.5	47,400										95
100	12.5	167.4	40,000 *	32.7	195.4	50,000	40.5	204.0	48,000	51.0	212.7	44,500										100
105				26.3	186.6	47,100	35.3	197.5	45,100	46.8	208.3	41,800	56.2	213.7	38,600							105
110				17.8	174.2	44,400	29.3	189.6	42,600	42.3	203.3	39,500	52.3	210.1	36,400							110
115							22.0	179.2	40,200	37.3	197.3	37,300	48.2	205.9	34,400							115
120							10.6	162.1	38,100	31.7	190.0	35,400	43.8	201.1	32,600							120
125										25.0	180.7	33,500	38.9	195.4	30,900	49.2	202.1	28,400				125
130										15.8	167.2	31,800	33.6	188.6	29,400	44.9	197.5	26,900				130
135													27.3	180.1	28,000	40.1	192.0	25,600				135
140													19.2	168.4	26,600	34.9	185.5	24,400	45.5	192.4	22,200	140
145																28.9	177.5	23,300	40.9	187.1	21,200	145
150																21.4	166.8	22,200	35.7	180.8	20,200	150
155																9.4	148.7	21,200	29.9	173.0	19,300	155
160																			22.7	162.9	18,400	160

Liftcrane Luffing Jib Capacities

New York City Code

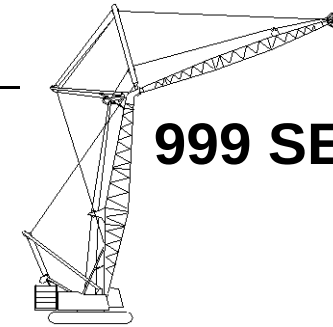
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	70.8	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	73,200 *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	68,100													75
80	47.3	221.4	55,700 *	56.1	229.8	62,500 *	61.0	233.0	62,800													80
85	43.2	216.4	53,700 *	52.6	226.2	60,100 *	57.7	230.1	58,300													85
90	38.9	210.7	51,900 *	48.9	222.1	56,700	54.2	226.7	54,300	62.2	231.2	50,300										90
95	34.0	203.9	49,000 *	45.0	217.5	53,100	50.6	222.8	50,800	58.9	228.4	47,000										95
100	28.5	195.7	45,700 *	40.8	212.1	49,800	46.8	218.4	47,600	55.5	225.2	44,100										100
105	21.8	185.0	42,800 *	36.2	205.8	46,900	42.7	213.4	44,800	52.0	221.5	41,500										105
110	11.9	168.5	35,600 *	31.0	198.3	44,200	38.3	207.5	42,300	48.2	217.3	39,100	56.6	222.4	36,000							110
115				24.9	188.9	41,800	33.4	200.6	40,000	44.3	212.5	37,000	53.1	218.9	34,000							115
120				16.9	175.7	39,600	27.8	192.2	37,900	40.0	207.0	35,000	49.5	214.8	32,200							120
125							20.8	181.1	35,900	35.3	200.5	33,200	45.6	210.3	30,600							125
130							10.0	163.0	34,100	30.0	192.7	31,600	41.4	205.0	29,000	50.4	211.0	26,500				130
135										23.7	182.9	30,100	36.9	198.9	27,600	46.5	206.6	25,200				135
140										15.0	168.6	28,600	31.8	191.5	26,300	42.4	201.5	24,000				140
145													25.8	182.4	25,100	38.0	195.6	22,900	47.1	201.5	20,800	145
150													18.2	170.1	24,000	33.1	188.6	21,900	43.1	196.5	19,800	150
155																27.4	180.0	20,900	38.7	190.7	18,900	155
160																20.3	168.7	20,000	33.8	183.9	18,100	160
170																			21.5	164.8	16,500	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

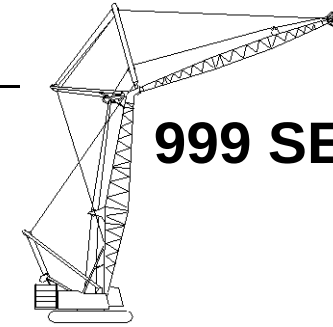
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	62,000 *	66.7	246.6	64,900 *													75
80	51.9	234.5	53,600 *	59.6	241.6	59,800 *	63.9	244.3	62,800													80
85	48.5	230.3	51,700 *	56.5	238.5	57,600 *	60.9	241.7	58,200													85
90	44.9	225.6	50,000 *	53.3	235.0	55,600 *	57.9	238.7	54,300													90
95	41.1	220.2	48,300 *	50.0	231.0	53,000	54.8	235.4	50,700	62.0	239.9	47,000										95
100	37.0	214.1	45,600 *	46.5	226.6	49,800	51.5	231.6	47,600	59.0	237.0	44,000										100
105	32.4	206.9	42,700 *	42.8	221.5	46,900	48.1	227.4	44,800	55.9	233.9	41,400										105
110	27.2	198.1	40,100 *	38.8	215.7	44,200	44.5	222.6	42,300	52.7	230.3	39,100										110
115	20.7	186.9	37,800 *	34.5	209.0	41,800	40.6	217.2	40,000	49.4	226.2	37,000	56.9	231.1	34,000							115
120	11.3	169.5	32,700 *	29.5	201.0	39,600	36.5	210.9	37,900	45.9	221.7	35,000	53.8	227.6	32,200							120
125				23.7	191.0	37,600	31.8	203.5	36,000	42.1	216.5	33,200	50.5	223.7	30,500							125
130				16.1	177.2	35,800	26.5	194.6	34,200	38.1	210.6	31,600	47.0	219.3	29,000							130
135							19.8	182.9	32,600	33.6	203.6	30,100	43.3	214.4	27,600	51.3	219.8	25,200				135
140							9.6	163.8	31,000	28.6	195.3	28,700	39.4	208.7	26,300	47.9	215.6	24,000				140
145										22.5	184.9	27,400	35.1	202.1	25,100	44.2	210.8	22,900				145
150										14.3	169.9	26,200	30.3	194.3	24,000	40.4	205.3	21,900				150
155													24.6	184.7	23,000	36.2	198.9	20,900	44.8	205.7	18,900	155
160													17.3	171.6	22,000	31.5	191.5	20,000	41.0	200.3	18,100	160
170																19.3	170.4	18,300	32.2	186.9	16,600	170
180																			20.5	166.7	15,200	180

Liftcrane Luffing Jib Capacities

New York City Code

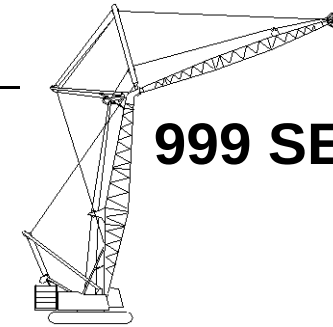
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.1	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	54,500 *																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	50,600													85
90	49.5	239.2	42,300 *	56.8	247.2	47,000 *	60.8	250.3	46,900													90
95	46.3	234.7	40,800 *	53.9	243.7	45,200 *	58.1	247.4	43,700													95
100	42.9	229.6	39,300 *	50.9	239.9	43,600 *	55.2	244.1	40,900	61.9	248.5	36,100										100
105	39.3	223.9	38,000 *	47.7	235.6	41,000	52.2	240.4	38,300	59.1	245.7	33,800										105
110	35.4	217.3	36,800 *	44.4	230.7	38,600	49.2	236.3	36,000	56.3	242.5	31,700										110
115	31.0	209.7	35,700 *	40.9	225.3	36,300	45.9	231.8	33,900	53.4	239.0	29,900										115
120	26.0	200.5	34,400 *	37.1	219.1	34,300	42.5	226.6	32,000	50.3	235.1	28,100	57.2	239.7	24,400							120
125	19.9	188.7	32,700 *	32.9	212.0	32,500	38.8	220.8	30,200	47.2	230.7	26,600	54.3	236.3	22,900							125
130	10.8	170.4	28,900 *	28.3	203.6	30,800	34.9	214.1	28,600	43.8	225.8	25,100	51.3	232.5	21,700							130
135				22.7	193.1	29,200	30.4	206.3	27,100	40.2	220.2	23,800	48.2	228.3	20,500							135
140				15.4	178.6	27,700	25.3	196.9	25,800	36.4	213.9	22,500	44.9	223.6	19,400	52.1	228.6	16,300				140
145							19.0	184.6	24,500	32.2	206.6	21,400	41.4	218.2	18,300	49.0	224.5	15,400				145
150							9.1	164.6	23,200	27.3	197.8	20,300	37.7	212.2	17,400	45.7	219.9	14,500				150
155										21.6	186.8	19,300	33.6	205.2	16,500	42.3	214.7	13,700				155
160										13.7	171.1	18,300	29.0	196.9	15,700	38.6	208.9	13,000	46.2	214.8	10,400	160
170													16.6	173.1	14,100	30.1	194.2	11,600	39.2	204.0	9,200	170
180																18.5	172.1	10,400	30.8	189.7	8,200	180
190																			19.6	168.4	7,200	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

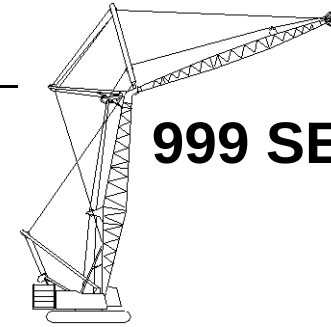
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	43,400													95
100	47.5	243.7	36,400 *	54.4	252.4	40,500 *	58.2	256.1	40,500													100
105	44.4	238.9	35,100 *	51.6	248.7	38,900 *	55.6	252.8	38,000	61.7	257.2	33,500										105
110	41.2	233.5	33,800 *	48.8	244.5	37,500 *	52.9	249.2	35,700	59.2	254.4	31,400										110
115	37.7	227.4	32,700 *	45.8	239.9	36,100	50.1	245.2	33,600	56.6	251.2	29,500										115
120	33.9	220.5	31,600 *	42.6	234.7	34,100	47.1	240.8	31,700	53.9	247.8	27,800										120
125	29.8	212.4	30,600 *	39.2	229.0	32,200	44.0	235.9	30,000	51.1	243.9	26,200	57.4	248.4	22,600							125
130	25.0	202.7	29,700 *	35.6	222.4	30,500	40.8	230.4	28,400	48.2	239.7	24,800	54.8	245.0	21,300							130
135	19.1	190.4	28,700 *	31.6	214.9	28,900	37.3	224.2	26,900	45.2	235.0	23,500	52.0	241.3	20,100							135
140	10.4	171.4	26,200 *	27.1	206.0	27,500	33.4	217.2	25,500	42.0	229.7	22,200	49.2	237.2	19,000							140
145				21.8	195.0	26,100	29.2	209.0	24,200	38.6	223.8	21,100	46.2	232.7	18,000	52.7	237.4	15,000				145
150				14.8	179.9	24,800	24.3	199.1	23,100	34.9	217.1	20,000	43.0	227.6	17,100	49.9	233.4	14,200				150
155							18.2	186.2	21,900	30.9	209.4	19,000	39.7	221.9	16,200	46.9	229.0	13,400				155
160							8.8	165.4	20,800	26.3	200.2	18,100	36.1	215.5	15,300	43.8	224.0	12,600				160
170										13.1	172.3	16,400	27.8	199.5	13,800	37.0	212.3	11,300	44.3	219.0	8,900	170
180													15.9	174.6	12,400	28.9	196.9	10,100	37.6	207.4	7,900	180
190																17.8	173.7	9,000	29.6	192.4	6,900	190
200																			18.8	170.1	6,000	200

Liftcrane Luffing Jib Capacities

New York City Code

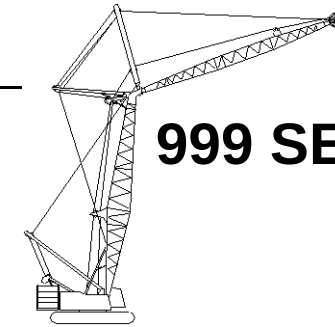
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.3	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	37,500													105
110	45.7	248.0	30,500 *	52.3	257.5	34,100 *	55.9	261.5	35,200	61.6	265.9	30,900										110
115	42.7	242.9	29,300 *	49.6	253.4	32,800 *	53.4	257.9	33,100	59.2	263.0	29,000										115
120	39.6	237.2	28,200 *	46.9	248.9	31,500 *	50.8	254.1	31,300	56.8	259.9	27,300										120
125	36.3	230.7	27,200 *	44.0	244.0	30,300 *	48.1	249.8	29,500	54.4	256.5	25,700										125
130	32.7	223.5	26,200 *	41.0	238.5	29,100 *	45.3	245.1	27,900	51.8	252.7	24,300	57.6	257.1	20,700							130
135	28.6	215.0	25,200 *	37.7	232.5	28,000 *	42.3	239.9	26,500	49.1	248.6	23,000	55.1	253.7	19,600							135
140	24.0	204.9	24,400 *	34.3	225.6	27,000 *	39.2	234.1	25,100	46.4	244.1	21,800	52.6	250.1	18,500							140
145	18.4	192.0	23,700 *	30.4	217.7	25,800	35.9	227.6	23,900	43.5	239.0	20,600	50.0	246.1	17,500							145
150	10.0	172.3	23,100 *	26.1	208.4	24,500	32.2	220.1	22,700	40.4	233.5	19,600	47.3	241.7	16,600							150
155				21.0	196.9	23,400	28.1	211.5	21,600	37.1	227.3	18,600	44.4	236.8	15,700	50.6	242.2	12,800				155
160				14.2	181.2	22,200	23.4	201.2	20,500	33.6	220.2	17,700	41.4	231.5	14,900	47.9	237.9	12,100				160
170							8.5	166.2	18,600	25.3	202.5	16,000	34.8	218.7	13,400	42.2	228.0	10,800				170
180										12.7	173.4	14,400	26.8	201.9	12,000	35.6	215.6	9,600	42.6	223.0	7,300	180
190													15.4	175.9	10,800	27.8	199.4	8,600	36.1	210.8	6,400	190
200																17.1	175.2	7,600	28.5	195.0	5,600	200
210																			18.1	171.7	4,800	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

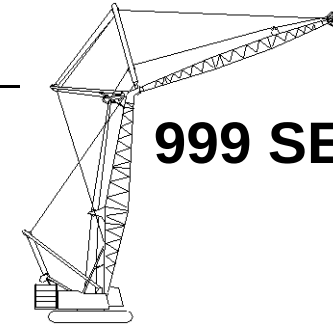
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	34,500 *													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	28,800										115
120	44.0	252.1	25,500 *	50.4	262.3	28,700 *	53.9	266.7	30,600 *	59.3	271.7	27,100										120
125	41.2	246.7	24,500 *	47.8	257.9	27,500 *	51.5	262.9	29,400 *	57.0	268.6	25,600										125
130	38.2	240.7	23,500 *	45.2	253.2	26,400 *	49.0	258.7	27,800	54.7	265.2	24,200										130
135	35.0	234.0	22,500 *	42.4	248.0	25,300 *	46.4	254.1	26,400	52.4	261.5	22,900	57.8	265.7	19,400							135
140	31.5	226.3	21,600 *	39.5	242.2	24,200 *	43.7	249.2	25,000	49.9	257.5	21,600	55.5	262.4	18,400							140
145	27.7	217.5	20,800 *	36.4	235.8	23,300 *	40.8	243.7	23,700	47.4	253.1	20,500	53.1	258.9	17,400							145
150	23.2	207.0	20,000 *	33.1	228.6	22,300 *	37.8	237.6	22,600	44.7	248.3	19,500	50.7	254.9	16,400							150
155	17.7	193.6	19,400 *	29.4	220.3	21,400 *	34.6	230.7	21,500	41.9	243.0	18,500	48.2	250.7	15,600							155
160	9.7	173.1	18,800 *	25.2	210.7	20,600 *	31.1	223.0	20,500	39.0	237.1	17,600	45.6	246.0	14,700	51.3	251.1	12,000				160
170				13.7	182.4	19,300 *	22.6	203.2	18,600	32.4	223.2	15,900	39.9	235.2	13,300	46.2	242.3	10,700				170
180							8.2	166.9	16,900	24.4	204.7	14,400	33.6	221.8	11,900	40.7	231.7	9,500	46.6	237.2	7,200	180
190										12.2	174.5	13,000	25.8	204.2	10,800	34.4	218.7	8,500	41.1	226.8	6,300	190
200													14.8	177.3	9,700	26.9	201.8	7,500	34.9	214.0	5,500	200
210																16.5	176.7	6,700	27.5	197.5	4,700	210
220																			17.5	173.3	4,000	220

Liftcrane Luffing Jib Capacities

New York City Code

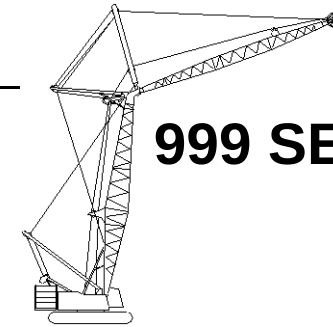
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.5	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	26,600										120
125	45.1	261.3	21,600 *	51.0	271.1	24,500 *	54.3	275.4	26,300 *	59.3	280.3	25,100										125
130	42.6	256.1	20,600 *	48.7	266.9	23,400 *	52.0	271.7	25,200 *	57.2	277.3	23,700										130
135	39.8	250.4	19,700 *	46.2	262.3	22,400 *	49.7	267.6	24,000 *	55.1	273.9	22,400										135
140	37.0	244.1	18,800 *	43.7	257.3	21,300 *	47.3	263.2	22,900 *	52.9	270.3	21,200	57.9	274.4	17,800							140
145	33.9	237.1	17,900 *	41.0	251.8	20,400 *	44.8	258.4	21,900 *	50.6	266.3	20,100	55.8	271.1	16,800							145
150	30.5	229.1	17,100 *	38.2	245.7	19,400 *	42.2	253.1	20,900 *	48.2	262.0	19,000	53.6	267.6	15,900							150
155	26.8	219.9	16,400 *	35.2	239.0	18,500 *	39.5	247.3	19,900 *	45.8	257.4	18,000	51.3	263.8	15,100							155
160	22.5	209.0	15,700 *	32.0	231.5	17,700 *	36.6	240.9	19,000 *	43.2	252.3	17,100	49.0	259.6	14,200							160
170	9.4	174.0	14,500 *	24.4	212.9	16,200 *	30.1	225.7	17,400 *	37.7	240.6	15,500	44.0	250.1	12,800	49.6	255.8	10,200				170
180				13.3	183.6	14,900 *	21.9	205.2	15,900 *	31.4	226.0	14,000	38.6	238.7	11,500	44.7	246.5	9,000				180
190							7.9	167.6	14,700 *	23.6	206.8	12,700	32.5	224.7	10,300	39.3	235.4	8,000	45.0	241.4	5,700	190
200										11.8	175.6	11,500	25.0	206.5	9,300	33.3	221.7	7,100	39.7	230.5	5,000	200
210													14.4	178.5	8,300	26.0	204.2	6,200	33.7	217.1	4,200	210
220																16.0	178.1	5,400				220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

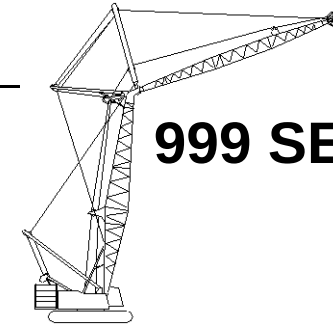
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	75.4	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	24,700							125
130	46.1	270.4	18,500 *	51.6	279.9	21,200 *	54.6	284.1	22,800 *	59.4	289.0	23,300							130
135	43.7	265.4	17,600 *	49.4	275.8	20,200 *	52.5	280.4	21,700 *	57.4	285.9	22,000							135
140	41.2	259.9	16,700 *	47.1	271.3	19,200 *	50.4	276.4	20,700 *	55.4	282.6	20,800							140
145	38.6	254.0	15,900 *	44.8	266.5	18,200 *	48.1	272.1	19,700 *	53.3	279.0	19,700	58.0	283.1	16,500				145
150	35.8	247.4	15,100 *	42.3	261.2	17,300 *	45.8	267.5	18,700 *	51.2	275.1	18,700	56.0	279.8	15,500				150
155	32.8	240.0	14,300 *	39.7	255.5	16,400 *	43.4	262.4	17,800 *	49.0	271.0	17,700	54.0	276.3	14,700				155
160	29.6	231.8	13,600 *	37.0	249.1	15,600 *	40.9	256.9	16,900 *	46.7	266.4	16,800	51.9	272.6	13,900				160
170	21.8	211.0	12,100 *	31.0	234.3	14,100 *	35.5	244.2	15,300 *	41.9	256.2	15,200	47.4	264.1	12,400	52.4	268.6	9,800	170
180	9.1	174.8	10,600 *	23.7	215.0	12,500 *	29.1	228.4	13,800 *	36.5	243.9	13,700	42.7	254.1	11,100	48.0	260.3	8,600	180
190				12.9	184.7	10,900 *	21.2	207.1	12,100 *	30.4	228.8	12,400	37.4	242.2	10,000	43.3	250.5	7,600	190
200							7.7	168.3	10,600 *	22.9	208.9	11,200	31.5	227.6	8,900	38.1	238.9	6,700	200
210										11.5	176.6	10,100	24.2	208.7	8,000	32.2	224.7	5,900	210
220													13.9	179.8	7,100	25.2	206.4	5,100	220
230																15.5	179.5	4,400	230

Liftcrane Luffing Jib Capacities

New York City Code

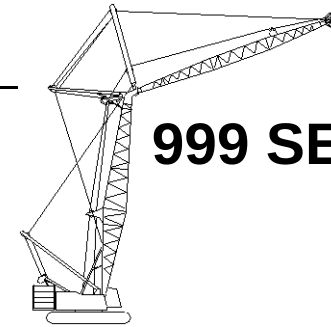
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	85,400 b																65
70	34.7	197.8	74,000 *	50.5	210.7	77,800 b	58.3	215.0	74,400 b													70
75	26.7	189.4	66,300 *	45.0	206.2	71,500	53.4	211.6	68,300 b													75
80	15.3	176.4	52,500 *	38.9	200.6	66,000	48.1	207.5	63,100	60.9	213.6	58,300 b										80
85				31.8	193.6	61,200	42.3	202.6	58,500	56.1	210.5	54,100 b										85
90				22.9	183.9	57,000	35.9	196.4	54,500	51.1	206.8	50,400 b										90
95				6.9	165.1	48,600 *	28.1	188.4	51,000	45.6	202.4	47,100										95
100							17.6	176.5	47,800	39.5	196.9	44,200	53.6	204.6	40,600 b							100
105										32.6	190.0	41,600	48.3	200.5	38,200							105
110										23.9	180.7	39,200	42.5	195.6	36,000							110
115										9.7	164.1	36,900	36.1	189.5	34,000	50.5	197.0	31,000 b				115
120													28.4	181.5	32,200	44.9	192.5	29,400				120
125													18.0	169.9	30,500	38.8	186.9	27,800				125
130																31.7	179.8	26,400	46.7	187.8	23,900	130
135																22.7	170.1	25,100	40.7	182.5	22,800	135
140																6.4	150.8	23,800	34.0	176.0	21,700	140
145																			25.7	167.3	20,600	145
150																			13.6	153.2	19,600	150

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

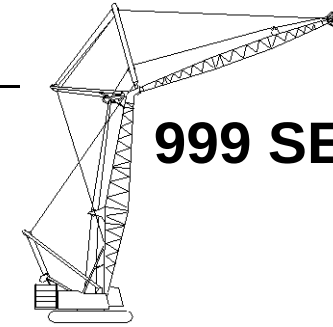
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	81,200 b													65
70	44.0	213.5	71,700 *	56.2	223.2	77,500 b	62.7	226.5	74,100 b													70
75	38.6	207.8	68,100 *	51.8	219.5	71,200	58.6	223.6	68,000 b													75
80	32.4	200.8	62,500 *	47.1	215.3	65,700	54.3	220.3	62,800													80
85	25.0	191.7	57,500 *	42.0	210.2	61,000	49.7	216.4	58,200	60.8	222.2	53,700 b										85
90	14.3	177.7	46,100 *	36.3	204.0	56,800	44.8	211.8	54,300	56.6	219.2	50,000 b										90
95				29.7	196.3	53,100	39.5	206.3	50,700	52.2	215.6	46,700										95
100				21.4	185.9	49,800	33.5	199.5	47,600	47.5	211.4	43,900										100
105				6.5	165.7	43,100 *	26.3	190.8	44,800	42.5	206.4	41,300	54.4	213.3	37,800							105
110							16.4	178.0	42,200	36.9	200.4	38,900	49.9	209.4	35,600							110
115										30.4	192.9	36,800	45.0	204.8	33,600							115
120										22.3	182.8	34,800	39.7	199.3	31,900	51.7	205.9	28,900				120
125										9.1	165.0	32,900	33.7	192.6	30,200	47.0	201.6	27,400				125
130													26.5	184.0	28,700	41.9	196.5	26,100				130
135													16.8	171.4	27,300	36.2	190.3	24,800				135
140																29.6	182.6	23,600	43.5	191.9	21,200	140
145																21.2	172.0	22,500	38.0	186.1	20,200	145
150																6.0	151.4	21,300	31.7	178.9	19,300	150
155																			24.1	169.5	18,400	155
160																			12.7	154.4	17,500	160

Liftcrane Luffing Jib Capacities

New York City Code

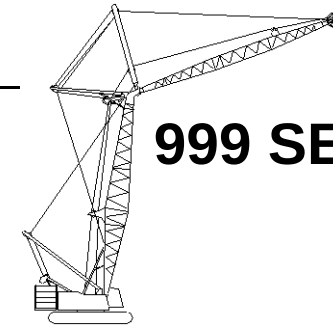
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	68.8	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	73,300 *	65.9	237.6	73,800 b													70
75	46.0	222.6	62,900 *	56.6	231.9	70,600 *	62.4	235.1	67,700 b													75
80	41.4	217.4	60,900 *	52.7	228.3	65,500	58.7	232.3	62,500													80
85	36.3	211.2	57,500 *	48.6	224.2	60,800	54.9	229.0	58,000													85
90	30.5	203.6	53,300 *	44.2	219.5	56,700	50.9	225.3	54,100	60.7	230.9	49,700 b										90
95	23.5	193.8	49,500 *	39.5	213.9	53,000	46.7	220.9	50,600	57.0	227.9	46,500										95
100	13.5	178.9	41,000 *	34.1	207.2	49,800	42.1	215.8	47,500	53.1	224.4	43,600										100
105				28.0	198.9	46,800	37.1	209.7	44,700	49.0	220.3	41,000										105
110				20.2	187.7	44,100	31.5	202.4	42,100	44.7	215.6	38,700	55.0	222.0	35,300							110
115				6.1	166.3	38,600 *	24.7	193.1	39,800	39.9	210.2	36,600	51.0	218.2	33,400							115
120							15.5	179.4	37,700	34.7	203.6	34,700	46.8	213.9	31,600							120
125										28.6	195.5	32,900	42.3	208.8	30,000	52.7	214.6	27,200				125
130										21.0	184.7	31,300	37.3	202.8	28,500	48.6	210.5	25,800				130
135										8.5	165.7	29,700	31.7	195.5	27,100	44.2	205.8	24,600				135
140													25.0	186.3	25,800	39.4	200.2	23,400				140
145													15.8	172.8	24,600	34.1	193.5	22,300	45.5	201.1	20,000	145
150																27.9	185.1	21,300	40.9	195.7	19,100	150
155																20.0	173.9	20,300	35.7	189.4	18,200	155
160																5.6	151.9	19,300	29.9	181.7	17,400	160
170																			11.9	155.5	15,800	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

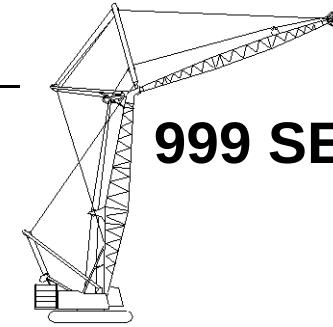
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	67,400 b													75
80	47.5	231.7	55,700 *	57.0	240.5	62,900 *	62.1	243.8	62,200													80
85	43.5	226.8	53,700 *	53.5	237.1	60,500	58.8	241.0	57,700													85
90	39.2	221.1	51,900 *	49.8	233.1	56,400	55.4	237.7	53,700													90
95	34.4	214.4	48,600 *	46.0	228.6	52,700	51.9	234.1	50,200	60.7	239.5	46,100										95
100	28.9	206.3	45,400 *	41.9	223.4	49,500	48.1	229.9	47,100	57.3	236.5	43,200										100
105	22.3	195.9	42,700 *	37.4	217.4	46,600	44.2	225.1	44,300	53.8	233.1	40,700										105
110	12.8	180.0	36,500 *	32.3	210.2	43,900	39.9	219.5	41,800	50.2	229.2	38,300										110
115				26.5	201.3	41,500	35.2	213.0	39,600	46.4	224.8	36,200	55.5	230.7	33,000							115
120				19.1	189.4	39,300	29.8	205.2	37,500	42.3	219.6	34,300	52.0	227.0	31,200							120
125				5.8	166.8	34,600 *	23.5	195.2	35,600	37.8	213.7	32,600	48.3	222.9	29,600							125
130							14.7	180.7	33,800	32.9	206.6	31,000	44.3	218.1	28,100							130
135										27.1	198.0	29,500	40.0	212.6	26,800	49.8	219.4	24,100				135
140										19.9	186.5	28,100	35.3	206.1	25,500	45.9	214.9	23,000				140
145										8.1	166.5	26,700	30.0	198.3	24,300	41.8	209.7	21,900				145
150													23.7	188.4	23,200	37.3	203.6	20,900	47.1	210.1	18,600	150
155													15.0	174.2	22,200	32.3	196.4	20,000	43.1	205.1	17,800	155
160																26.4	187.5	19,100	38.7	199.4	17,000	160
170																5.3	152.3	17,400	28.3	184.2	15,500	170
180																			11.3	156.5	14,200	180

Liftcrane Luffing Jib Capacities

New York City Code

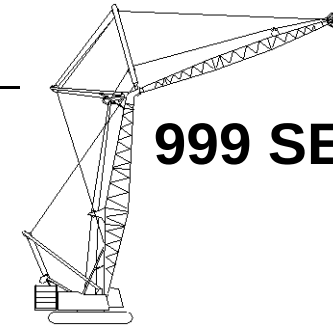
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	72.8	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	62,100 *	67.7	257.2	59,000													75
80	52.1	244.7	53,600 *	60.3	252.2	58,300	64.9	255.0	54,300													80
85	48.8	240.6	51,700 *	57.3	249.2	53,900	61.9	252.5	50,200													85
90	45.2	235.9	50,000 *	54.1	245.8	50,100	58.9	249.6	46,600													90
95	41.4	230.6	47,200 *	50.8	242.0	46,700	55.9	246.4	43,400													95
100	37.3	224.5	44,300 *	47.4	237.6	43,700	52.6	242.8	40,600	60.6	248.2	35,500										100
105	32.7	217.4	41,600 *	43.7	232.7	41,000	49.3	238.8	38,000	57.6	245.2	33,200										105
110	27.6	208.8	39,200 *	39.8	227.1	38,500	45.8	234.2	35,800	54.4	241.8	31,200										110
115	21.3	197.8	37,100 *	35.6	220.6	36,300	42.0	229.0	33,700	51.1	238.0	29,300										115
120	12.2	181.1	33,600 *	30.8	213.0	34,300	38.0	223.1	31,800	47.7	233.8	27,600	56.0	239.4	23,600							120
125				25.3	203.6	32,400	33.5	216.1	30,100	44.1	228.9	26,100	52.7	235.8	22,200							125
130				18.2	191.1	30,700	28.4	207.8	28,500	40.2	223.4	24,700	49.4	231.8	21,000							130
135				5.5	167.3	29,000	22.3	197.2	27,000	36.0	217.0	23,400	45.9	227.2	19,800							135
140							14.0	182.0	25,600	31.3	209.5	22,200	42.1	222.0	18,700	50.8	228.3	15,400				140
145										25.8	200.3	21,000	38.1	216.1	17,700	47.3	223.9	14,500				145
150										19.0	188.2	19,900	33.6	209.2	16,800	43.7	219.0	13,700				150
155										7.7	167.1	18,900	28.6	200.9	15,900	39.8	213.4	13,000				155
160													22.6	190.5	15,100	35.5	206.9	12,300	44.8	214.4	9,500	160
170																25.2	189.8	11,000	36.8	202.8	8,400	170
180																5.1	152.8	9,700	27.0	186.7	7,400	180
190																			10.8	157.5	6,400	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

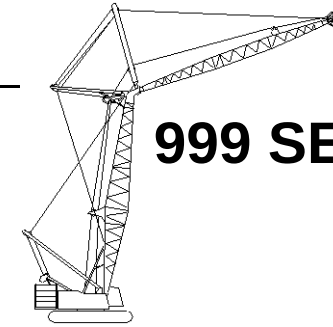
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.3	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	49,700													85
90	49.8	249.5	42,300 *	57.5	257.9	47,400 *	61.8	261.1	46,100													90
95	46.6	245.0	40,800 *	54.6	254.5	45,600 *	59.0	258.3	42,900													95
100	43.2	240.0	39,400 *	51.6	250.8	43,300	56.2	255.1	40,100													100
105	39.6	234.3	38,100 *	48.5	246.6	40,600	53.3	251.6	37,600	60.5	256.9	32,700										105
110	35.6	227.8	36,900 *	45.2	241.9	38,100	50.2	247.7	35,300	57.8	253.9	30,700										110
115	31.3	220.3	35,500 *	41.8	236.6	35,900	47.1	243.3	33,300	54.9	250.6	28,800										115
120	26.4	211.2	33,600 *	38.1	230.7	33,900	43.7	238.3	31,400	51.9	246.8	27,100										120
125	20.3	199.6	32,000 *	34.0	223.8	32,100	40.1	232.8	29,700	48.8	242.7	25,600	56.3	248.1	21,600							125
130	11.7	182.2	29,600 *	29.5	215.7	30,400	36.3	226.4	28,100	45.6	238.1	24,200	53.4	244.6	20,400							130
135				24.2	205.8	28,800	32.0	219.0	26,600	42.1	232.9	22,900	50.3	240.6	19,300							135
140				17.4	192.6	27,400	27.2	210.2	25,300	38.4	227.0	21,700	47.2	236.3	18,200							140
145				5.3	167.8	25,900	21.4	199.2	24,000	34.4	220.2	20,600	43.8	231.3	17,200	51.6	237.1	14,000				145
150							13.4	183.2	22,800	29.9	212.2	19,600	40.3	225.8	16,300	48.5	232.9	13,200				150
155										24.7	202.6	18,600	36.4	219.5	15,500	45.2	228.2	12,400				155
160										18.2	189.8	17,600	32.2	212.1	14,700	41.7	222.9	11,700				160
170													21.6	192.4	13,200	33.9	210.0	10,500	42.8	218.4	7,800	170
180																24.1	192.0	9,300	35.2	206.0	6,900	180
190																4.9	153.2	8,200	25.8	189.0	6,000	190
200																			10.3	158.4	5,100	200

Liftcrane Luffing Jib Capacities

New York City Code

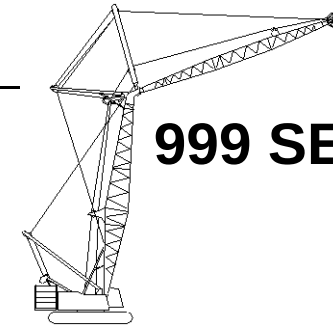
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.5	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	45,700													90
95	50.6	258.4	37,800 *	57.7	266.5	42,300 *	61.6	269.8	42,600													95
100	47.7	254.0	36,500 *	55.0	263.2	40,800 *	59.1	267.0	39,800													100
105	44.6	249.2	35,200 *	52.3	259.5	39,300 *	56.5	263.8	37,300	63.0	268.2	32,300										105
110	41.4	243.9	33,900 *	49.5	255.5	37,900 *	53.8	260.3	35,000	60.5	265.5	30,300										110
115	37.9	237.8	32,800 *	46.5	251.0	35,700	51.0	256.5	32,900	57.9	262.6	28,500										115
120	34.2	231.0	31,700 *	43.4	246.0	33,700	48.1	252.2	31,100	55.3	259.3	26,800										120
125	30.1	223.0	30,700 *	40.1	240.4	31,800	45.1	247.5	29,400	52.6	255.6	25,300										125
130	25.3	213.5	29,500 *	36.5	234.0	30,200	41.9	242.2	27,800	49.7	251.6	23,900	56.6	256.8	20,000							130
135	19.5	201.4	28,100 *	32.6	226.8	28,600	38.5	236.3	26,300	46.8	247.1	22,600	53.9	253.3	18,900							135
140	11.2	183.2	26,900 *	28.3	218.3	27,200	34.8	229.6	25,000	43.7	242.2	21,400	51.1	249.5	17,900							140
145				23.2	207.9	25,800	30.7	221.8	23,700	40.4	236.6	20,300	48.2	245.2	16,900							145
150				16.7	194.1	24,600	26.1	212.6	22,600	36.9	230.4	19,300	45.2	240.5	16,000	52.3	245.9	12,800				150
155				5.1	168.2	23,300	20.5	201.0	21,500	33.0	223.2	18,300	42.0	235.3	15,100	49.4	241.8	12,100				155
160							12.9	184.3	20,400	28.7	214.9	17,400	38.6	229.4	14,300	46.5	237.3	11,400				160
170										17.5	191.4	15,700	30.9	215.0	12,900	40.0	226.6	10,100	47.4	232.5	7,500	170
180													20.7	194.3	11,600	32.6	213.0	9,000	41.0	222.2	6,500	180
190																23.1	194.1	8,000	33.8	209.1	5,700	190
200																4.7	153.7	7,000	24.8	191.3	4,900	200
210																			9.9	159.3	4,100	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

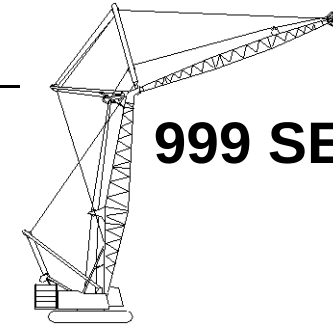
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	39,300													100
105	48.6	263.0	31,800 *	55.4	271.9	35,800 *	59.2	275.6	36,800													105
110	45.8	258.4	30,600 *	52.9	268.3	34,500 *	56.8	272.5	34,500	62.8	276.9	29,700										110
115	42.9	253.2	29,400 *	50.3	264.3	33,100 *	54.3	269.1	32,500	60.5	274.2	27,900										115
120	39.8	247.6	28,300 *	47.6	260.0	31,900 *	51.7	265.3	30,600	58.1	271.2	26,300										120
125	36.5	241.2	27,300 *	44.7	255.2	30,600 *	49.1	261.2	28,900	55.6	268.0	24,800										125
130	32.9	234.0	26,300 *	41.7	249.9	29,400 *	46.3	256.6	27,400	53.1	264.4	23,400										130
135	28.9	225.6	25,300 *	38.6	243.9	28,200	43.4	251.6	25,900	50.5	260.4	22,100	56.8	265.5	18,400							135
140	24.4	215.7	24,500 *	35.1	237.3	26,800	40.3	246.0	24,600	47.8	256.1	20,900	54.4	262.0	17,300							140
145	18.8	203.1	23,800 *	31.4	229.6	25,500	37.0	239.7	23,300	45.0	251.4	19,800	51.8	258.3	16,400							145
150	10.8	184.2	23,200 *	27.2	220.7	24,200	33.5	232.7	22,200	42.0	246.1	18,800	49.1	254.1	15,500							150
155				22.3	209.9	23,100	29.6	224.5	21,100	38.9	240.2	17,800	46.4	249.6	14,600	52.8	254.6	11,500				155
160				16.1	195.6	22,000	25.1	214.9	20,100	35.5	233.6	16,900	43.5	244.6	13,800	50.2	250.7	10,800				160
170							12.4	185.4	18,200	27.7	217.4	15,300	37.2	232.8	12,400	44.7	241.5	9,600				170
180										16.8	192.9	13,800	29.7	217.7	11,100	38.5	230.2	8,500	45.5	236.8	6,000	180
190													20.0	196.1	10,000	31.3	215.9	7,500	39.5	225.9	5,100	190
200																22.3	196.1	6,600	32.5	212.1	4,400	200
210																4.5	154.1	5,700				210

Liftcrane Luffing Jib Capacities

New York City Code

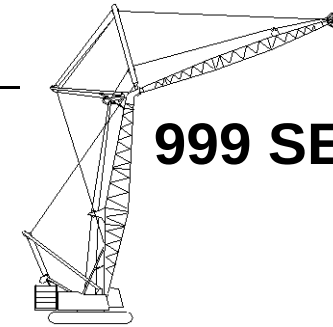
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	75.5	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	36,200 *													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	27,800										115
120	44.2	262.5	25,600 *	51.0	273.2	29,000 *	54.7	277.8	30,500	60.4	282.8	26,100										120
125	41.4	257.1	24,600 *	48.5	268.9	27,800 *	52.3	274.1	28,800	58.2	279.9	24,600										125
130	38.4	251.1	23,600 *	45.8	264.3	26,700 *	49.8	270.0	27,200	55.9	276.6	23,200										130
135	35.2	244.4	22,600 *	43.1	259.2	25,600 *	47.3	265.6	25,800	53.6	273.1	22,000										135
140	31.8	236.9	21,700 *	40.2	253.6	24,600 *	44.6	260.8	24,500	51.2	269.3	20,800	57.1	274.1	17,200							140
145	27.9	228.2	20,900 *	37.2	247.4	23,600 *	41.8	255.5	23,200	48.7	265.1	19,700	54.7	270.7	16,200							145
150	23.5	217.8	20,100 *	33.9	240.4	22,600 *	38.9	249.6	22,100	46.1	260.5	18,700	52.4	267.1	15,300							150
155	18.2	204.7	19,400 *	30.3	232.4	21,700 *	35.7	243.0	21,000	43.4	255.4	17,700	49.9	263.0	14,500							155
160	10.4	185.1	18,900 *	26.3	223.1	20,900 *	32.3	235.6	20,000	40.5	249.9	16,800	47.4	258.6	13,700							160
170				15.6	197.0	19,500 *	24.3	217.1	18,200	34.2	236.8	15,200	41.9	248.5	12,300	48.4	255.3	9,500				170
180							12.0	186.5	16,500	26.7	219.8	13,800	35.9	236.1	11,100	43.1	245.5	8,400				180
190										16.3	194.4	12,500	28.7	220.3	9,900	37.1	233.6	7,400	43.9	240.9	5,000	190
200													19.3	197.8	8,900	30.3	218.6	6,500	38.1	229.4	4,300	200
210																21.5	198.0	5,700				210
220																4.3	154.4	4,900				220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

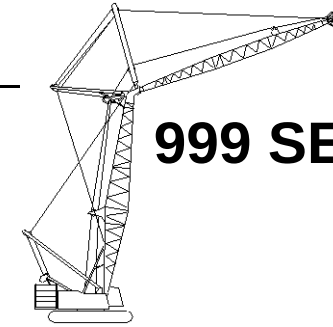
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	25,600							120
125	45.3	271.7	21,700 *	51.6	282.0	24,900 *	55.0	286.5	26,800 *	60.4	291.5	24,100							125
130	42.7	266.5	20,700 *	49.2	277.8	23,700 *	52.8	282.8	25,600 *	58.3	288.5	22,700							130
135	40.0	260.8	19,800 *	46.8	273.4	22,700 *	50.5	278.9	24,500 *	56.2	285.3	21,500							135
140	37.2	254.5	18,900 *	44.3	268.4	21,600 *	48.2	274.6	23,400 *	54.0	281.8	20,300							140
145	34.1	247.6	18,000 *	41.7	263.1	20,700 *	45.7	269.9	22,300 *	51.8	278.1	19,200	57.2	282.8	15,700				145
150	30.7	239.7	17,200 *	38.9	257.2	19,700 *	43.1	264.8	21,300 *	49.5	274.0	18,200	55.1	279.5	14,800				150
155	27.0	230.6	16,500 *	36.0	250.7	18,800 *	40.5	259.2	20,300 *	47.1	269.5	17,300	52.9	275.8	14,000				155
160	22.8	219.9	15,800 *	32.8	243.4	18,000 *	37.6	253.1	19,400 *	44.6	264.6	16,400	50.6	271.9	13,200				160
170	10.1	186.0	14,600 *	25.4	225.4	16,400 *	31.3	238.5	17,700 *	39.2	253.5	14,800	45.8	262.9	11,800	51.5	268.3	8,900	170
180				15.1	198.3	15,100 *	23.5	219.2	16,200 *	33.1	239.8	13,400	40.5	252.3	10,600	46.8	259.7	7,900	180
190							11.6	187.5	14,700	25.8	222.1	12,100	34.7	239.3	9,500	41.6	249.4	6,900	190
200										15.7	195.8	10,900	27.8	222.8	8,500	35.9	236.9	6,000	200
210													18.7	199.5	7,500	29.3	221.3	5,300	210
220																20.8	199.9	4,500	220

Liftcrane Luffing Jib Capacities

New York City Code

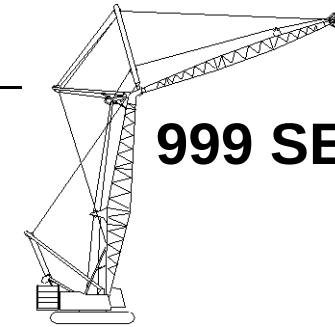
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	75.5	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	23,700							125
130	46.3	280.7	18,600 *	52.1	290.8	21,500 *	55.3	295.2	23,200 *	60.4	300.2	22,400							130
135	43.9	275.8	17,700 *	49.9	286.7	20,400 *	53.2	291.6	22,100 *	58.4	297.2	21,100							135
140	41.4	270.3	16,800 *	47.7	282.3	19,400 *	51.1	287.7	21,100 *	56.4	294.0	19,900							140
145	38.8	264.4	16,000 *	45.3	277.6	18,500 *	48.9	283.5	20,100 *	54.4	290.6	18,900							145
150	36.0	257.8	15,200 *	42.9	272.4	17,600 *	46.6	279.0	19,100 *	52.3	286.8	17,900	57.4	291.5	14,400				150
155	33.0	250.6	14,400 *	40.4	266.8	16,700 *	44.3	274.1	18,200 *	50.1	282.8	16,900	55.4	288.2	13,600				155
160	29.8	242.4	13,700 *	37.7	260.7	15,900 *	41.8	268.7	17,300 *	47.9	278.5	16,000	53.3	284.6	12,800				160
170	22.1	221.8	12,200 *	31.8	246.3	14,300 *	36.5	256.4	15,600 *	43.2	268.7	14,400	49.0	276.5	11,500				170
180	9.8	186.9	10,700 *	24.7	227.6	12,800 *	30.3	241.2	14,100 *	38.0	257.0	13,000	44.3	267.1	10,200	49.9	273.0	7,500	180
190				14.6	199.6	11,200 *	22.8	221.2	12,500 *	32.1	242.7	11,800	39.3	255.9	9,100	45.3	263.9	6,500	190
200							11.2	188.5	10,900 *	25.1	224.4	10,600	33.6	242.4	8,100	40.3	253.1	5,700	200
210										15.3	197.1	9,600	26.9	225.2	7,200	34.8	240.1	4,900	210
220													18.1	201.1	6,400	28.4	223.9	4,200	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

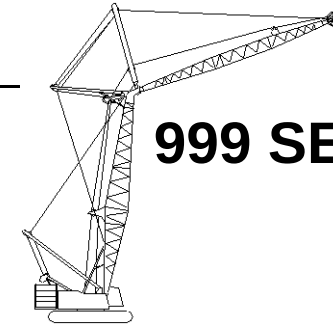
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	93,700 b																60
65	41.8	214.6	79,000 *	56.9	225.2	84,800 b																65
70	35.2	208.3	72,400 *	51.8	221.6	77,300 b	60.0	225.9	73,600 b													70
75	27.4	200.1	66,700 *	46.4	217.3	71,000	55.1	222.7	67,600 b													75
80	16.4	187.6	53,800 *	40.5	212.0	65,500	50.0	218.9	62,400 b													80
85				33.7	205.4	60,800	44.4	214.2	57,900	58.7	221.8	53,000 b										85
90				25.3	196.6	56,600	38.2	208.5	53,900	53.7	218.5	49,400 b										90
95				12.8	182.1	52,900	31.0	201.3	50,400	48.5	214.4	46,200										95
100							21.8	191.2	47,300	42.7	209.5	43,300	57.0	216.3	39,400 b							100
105										36.3	203.5	40,800	51.9	212.8	37,100 b							105
110										28.7	195.6	38,400	46.5	208.4	34,900							110
115										18.4	184.1	36,300	40.6	203.2	33,000							115
120													33.8	196.6	31,300	49.6	205.5	28,200				120
125													25.5	187.8	29,600	44.0	200.8	26,700				125
130													13.2	173.6	28,100	37.8	195.0	25,400				130
135																30.5	187.6	24,100	46.7	196.4	21,500	135
140																21.0	177.2	22,900	40.7	191.2	20,500	140
145																			34.0	184.6	19,500	145
150																			25.7	175.9	18,600	150
155																			13.6	161.9	17,600	155

Liftcrane Luffing Jib Capacities

New York City Code

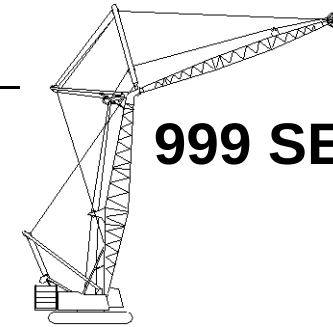
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	66.3	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	87,700 *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	77,000 b	64.1	237.2	73,200 b													70
75	39.0	218.2	66,300 *	52.9	230.4	70,700	60.0	234.5	67,200 b													75
80	32.9	211.4	61,400 *	48.3	226.3	65,300	55.8	231.4	62,000 b													80
85	25.6	202.4	57,100 *	43.3	221.4	60,500	51.3	227.7	57,600	62.9	233.3	52,600 b										85
90	15.3	189.0	47,200 *	37.7	215.6	56,400	46.6	223.3	53,600	58.8	230.5	49,000 b										90
95				31.4	208.3	52,800	41.4	218.2	50,200	54.5	227.2	45,800										95
100				23.7	198.7	49,500	35.7	211.9	47,100	50.0	223.3	43,000										100
105				11.9	183.2	46,500	29.0	204.0	44,300	45.2	218.8	40,400	57.3	225.0	36,600 b							105
110							20.4	193.1	41,700	39.9	213.3	38,100	53.0	221.5	34,500							110
115										33.9	206.6	36,000	48.4	217.4	32,600							115
120										26.8	198.1	34,100	43.4	212.6	30,900							120
125										17.2	185.7	32,300	37.9	206.7	29,300	51.0	214.3	26,300				125
130													31.6	199.5	27,800	46.2	209.9	24,900				130
135													23.9	190.0	26,500	41.0	204.7	23,700				135
140													12.3	174.7	25,100	35.2	198.3	22,600				140
145																28.4	190.2	21,500	43.5	200.6	19,100	145
150																19.6	179.0	20,500	38.0	194.7	18,200	150
155																			31.7	187.6	17,300	155
160																			24.1	178.1	16,500	160

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

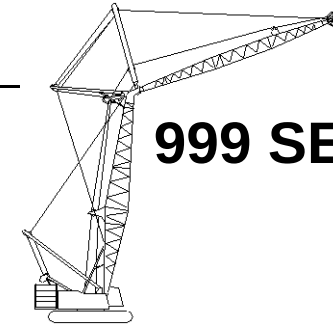
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	78,900 *b																60
65	54.6	241.2	67,200 *	64.8	248.1	76,100 *b																65
70	50.6	237.4	64,900 *	61.3	245.5	73,500 *b	67.1	248.2	72,900 b													70
75	46.3	233.0	62,800 *	57.6	242.6	70,500	63.6	245.9	66,900 b													75
80	41.7	227.8	60,100 *	53.7	239.1	65,100	60.0	243.2	61,800													80
85	36.7	221.7	56,100 *	49.7	235.2	60,400	56.3	240.1	57,300													85
90	31.0	214.2	52,400 *	45.3	230.6	56,300	52.3	236.5	53,400	62.6	241.9	48,700 b										90
95	24.1	204.6	49,100 *	40.7	225.2	52,600	48.2	232.3	50,000	59.0	239.1	45,500										95
100	14.4	190.3	42,000 *	35.5	218.9	49,400	43.8	227.5	46,900	55.2	235.9	42,700										100
105				29.6	211.0	46,500	38.9	221.8	44,100	51.2	232.2	40,200										105
110				22.3	200.8	43,800	33.6	215.0	41,600	47.0	227.8	37,900	57.6	233.7	34,200							110
115				11.3	184.2	41,400	27.3	206.5	39,300	42.4	222.8	35,800	53.8	230.3	32,400							115
120							19.2	194.8	37,300	37.5	216.8	34,000	49.7	226.3	30,600							120
125										31.9	209.6	32,200	45.4	221.8	29,100							125
130										25.2	200.4	30,600	40.8	216.4	27,600	52.1	223.1	24,700				130
135										16.2	187.2	29,100	35.6	210.1	26,300	47.9	218.9	23,500				135
140													29.7	202.3	25,000	43.4	214.0	22,300				140
145													22.5	192.1	23,900	38.6	208.3	21,300				145
150													11.6	175.7	22,700	33.2	201.4	20,300	45.5	209.7	17,900	150
155																26.8	192.7	19,400	40.9	204.4	17,100	155
160																18.5	180.7	18,500	35.7	198.1	16,300	160
170																			22.7	180.2	14,900	170

Liftcrane Luffing Jib Capacities

New York City Code

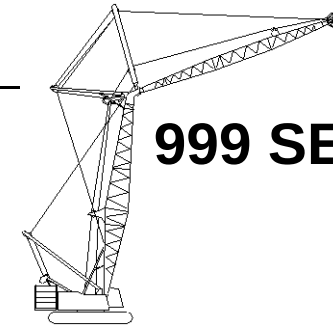
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	71.2	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	62,700	66.4	256.9	58,000 b													75
80	47.8	242.0	55,700 *	57.8	251.2	57,700	63.3	254.6	53,400													80
85	43.8	237.1	53,800 *	54.4	247.9	53,300	60.0	251.8	49,300													85
90	39.5	231.5	50,500 *	50.8	244.0	49,500	56.6	248.8	45,800													90
95	34.7	224.9	47,400 *	46.9	239.7	46,200	53.1	245.2	42,600	62.3	250.6	36,800										95
100	29.3	216.9	44,500 *	42.9	234.7	43,200	49.5	241.2	39,800	59.1	247.8	34,300										100
105	22.8	206.7	41,800 *	38.5	228.8	40,500	45.6	236.7	37,300	55.7	244.6	32,100										105
110	13.7	191.5	37,400 *	33.6	222.0	38,100	41.4	231.4	35,100	52.1	241.0	30,100										110
115				28.0	213.6	35,800	36.9	225.2	33,000	48.4	236.8	28,300	57.9	242.3	23,700							115
120				21.1	202.7	33,800	31.8	217.9	31,100	44.4	232.0	26,700	54.4	239.0	22,300							120
125				10.7	185.1	31,900	25.8	208.8	29,400	40.2	226.5	25,200	50.8	235.2	21,000							125
130							18.2	196.5	27,800	35.5	220.1	23,800	47.0	230.8	19,800							130
135										30.2	212.4	22,500	43.0	225.8	18,600	52.9	231.9	14,900				135
140										23.9	202.6	21,300	38.6	220.0	17,600	49.2	227.8	14,000				140
145										15.4	188.6	20,100	33.7	213.2	16,700	45.3	223.2	13,200				145
150													28.2	204.8	15,700	41.1	217.9	12,400				150
155													21.3	194.0	14,900	36.5	211.7	11,700	47.1	218.8	8,600	155
160													11.0	176.7	14,000	31.4	204.3	11,000	43.1	213.8	8,100	160
170																17.6	182.3	9,800	33.8	201.2	7,000	170
180																			21.5	182.1	6,100	180

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

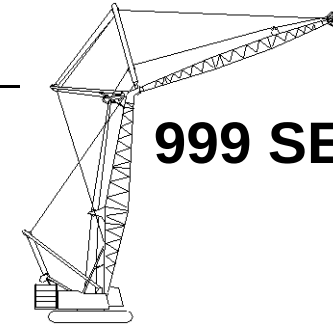
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	57,600	65.9	265.6	53,300													80
85	49.0	250.9	51,700 *	58.0	259.9	53,300	63.0	263.2	49,200													85
90	45.5	246.3	48,800 *	54.9	256.6	49,500	60.0	260.5	45,700													90
95	41.7	241.0	45,900 *	51.6	252.9	46,100	56.9	257.4	42,600													95
100	37.6	235.0	43,200 *	48.2	248.7	43,100	53.8	254.0	39,800	62.1	259.3	34,200										100
105	33.1	227.9	40,700 *	44.6	243.9	40,500	50.5	250.1	37,300	59.1	256.5	32,000										105
110	28.0	219.5	38,400 *	40.8	238.5	38,100	47.0	245.7	35,100	56.1	253.3	30,100										110
115	21.8	208.7	36,500 *	36.6	232.2	35,900	43.3	240.7	33,000	52.9	249.7	28,300										115
120	13.0	192.7	34,300 *	32.0	224.9	33,900	39.4	235.1	31,200	49.5	245.7	26,600										120
125				26.7	216.0	32,000	35.1	228.5	29,500	46.0	241.2	25,100	55.0	247.7	20,900							125
130				20.1	204.5	30,300	30.3	220.7	27,900	42.3	236.0	23,800	51.7	244.0	19,700							130
135				10.2	186.0	28,700	24.6	211.1	26,400	38.2	230.1	22,500	48.3	239.8	18,600							135
140							17.3	198.0	25,000	33.8	223.2	21,300	44.7	235.0	17,600							140
145										28.8	215.0	20,200	40.9	229.7	16,700	50.2	236.7	13,200				145
150										22.8	204.6	19,200	36.7	223.4	15,800	46.8	232.3	12,400				150
155										14.7	189.9	18,200	32.1	216.1	14,900	43.1	227.3	11,700				155
160													26.8	207.3	14,100	39.1	221.5	11,000				160
170													10.5	177.7	12,600	29.9	207.0	9,800	41.0	217.6	7,000	170
180																16.7	183.8	8,700	32.2	204.2	6,100	180
190																			20.5	184.0	5,300	190

Liftcrane Luffing Jib Capacities

New York City Code

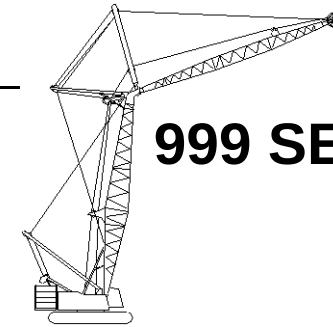
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	52,800 *																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	48,700													85
90	50.0	259.8	42,400 *	58.2	268.6	47,700 *	62.7	271.9	45,200													90
95	46.8	255.3	40,900 *	55.3	265.3	45,700	60.0	269.2	42,100													95
100	43.4	250.4	39,500 *	52.4	261.6	42,700	57.2	266.1	39,300													100
105	39.8	244.7	38,200 *	49.3	257.6	40,100	54.3	262.7	36,800	62.0	267.9	31,500										105
110	35.9	238.3	36,700 *	46.1	253.0	37,700	51.3	258.9	34,600	59.2	265.1	29,500										110
115	31.6	230.8	34,800 *	42.6	247.9	35,500	48.2	254.7	32,600	56.4	262.0	27,800										115
120	26.7	221.9	33,000 *	39.0	242.1	33,500	44.9	250.0	30,700	53.5	258.5	26,100										120
125	20.8	210.5	31,500 *	35.0	235.5	31,700	41.4	244.6	29,000	50.4	254.6	24,600										125
130	12.5	193.8	30,300 *	30.6	227.7	30,000	37.7	238.6	27,500	47.3	250.2	23,300	55.4	256.4	19,200							130
135				25.5	218.4	28,500	33.6	231.6	26,000	43.9	245.3	22,000	52.4	252.8	18,100							135
140				19.3	206.2	27,000	29.0	223.3	24,700	40.4	239.8	20,900	49.4	248.7	17,100							140
145				9.7	186.9	25,600	23.6	213.2	23,500	36.5	233.5	19,800	46.1	244.2	16,100							145
150							16.6	199.5	22,300	32.3	226.2	18,800	42.7	239.1	15,300	51.1	245.5	11,800				150
155										27.5	217.5	17,800	39.1	233.3	14,400	48.0	241.3	11,100				155
160										21.8	206.6	16,900	35.1	226.7	13,700	44.7	236.5	10,500				160
170													25.7	209.6	12,300	37.4	225.0	9,300	46.2	232.1	6,400	170
180													10.0	178.6	10,900	28.6	209.6	8,200	39.2	221.3	5,600	180
190																16.0	185.2	7,200	30.8	207.0	4,800	190
200																			19.6	185.7	4,000	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

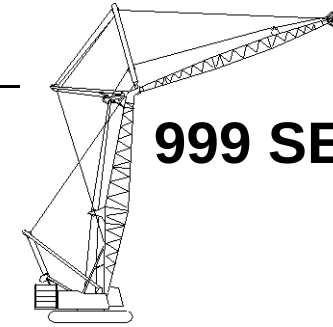
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	44,800													90
95	50.8	268.6	37,800 *	58.3	277.2	42,500 *	62.5	280.6	41,700													95
100	47.9	264.3	36,500 *	55.7	274.0	41,100 *	60.0	277.8	39,000													100
105	44.8	259.6	35,200 *	53.0	270.4	39,600 *	57.4	274.8	36,500													105
110	41.6	254.3	34,000 *	50.2	266.4	37,400	54.8	271.4	34,300	61.8	276.6	29,200										110
115	38.2	248.3	32,800 *	47.2	262.0	35,200	52.0	267.7	32,200	59.3	273.8	27,400										115
120	34.5	241.5	31,800 *	44.2	257.2	33,200	49.2	263.6	30,400	56.7	270.7	25,800										120
125	30.4	233.6	30,400 *	40.9	251.7	31,400	46.2	259.1	28,700	54.0	267.2	24,300										125
130	25.7	224.2	29,000 *	37.4	245.6	29,800	43.0	254.0	27,200	51.2	263.4	22,900										130
135	20.0	212.3	27,700 *	33.6	238.6	28,200	39.7	248.3	25,800	48.3	259.2	21,700	55.8	265.1	17,700							135
140	12.0	194.9	26,800 *	29.4	230.4	26,800	36.1	241.9	24,400	45.3	254.5	20,500	53.0	261.5	16,700							140
145				24.5	220.6	25,500	32.2	234.5	23,200	42.1	249.2	19,500	50.2	257.6	15,800							145
150				18.5	207.9	24,200	27.8	225.9	22,100	38.7	243.4	18,500	47.3	253.2	14,900							150
155				9.4	187.8	23,000	22.6	215.2	21,000	35.1	236.7	17,500	44.2	248.3	14,100	51.8	254.3	10,800				155
160							15.9	201.0	20,000	31.0	229.0	16,600	41.0	242.9	13,300	49.0	250.2	10,100				160
170										20.9	208.5	15,000	33.7	229.8	12,000	42.8	240.5	9,000				170
180													24.6	211.9	10,700	35.9	228.3	7,900	44.3	236.3	5,200	180
190													9.6	179.4	9,500	27.5	212.1	7,000	37.6	224.8	4,400	190
200																15.4	186.6	6,100				200

Liftcrane Luffing Jib Capacities

New York City Code

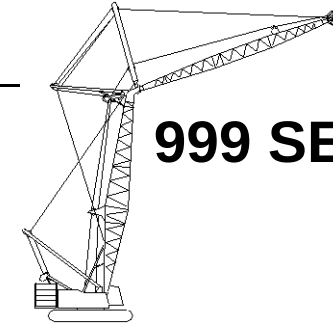
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	74.6	302.9	46,900 *																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	38,500										100
105	48.8	273.3	31,900 *	56.0	282.7	36,100 *	60.0	286.5	36,000										105
110	46.0	268.7	30,700 *	53.5	279.1	34,800 *	57.6	283.5	33,800										110
115	43.1	263.6	29,500 *	50.9	275.3	33,400 *	55.1	280.1	31,800	61.7	285.3	26,800							115
120	40.1	258.0	28,400 *	48.2	271.0	32,200 *	52.6	276.5	30,000	59.3	282.5	25,200							120
125	36.8	251.7	27,400 *	45.4	266.3	30,900 *	50.0	272.5	28,300	56.9	279.3	23,800							125
130	33.2	244.5	26,400 *	42.5	261.1	29,400	47.3	268.1	26,700	54.4	275.9	22,400							130
135	29.2	236.3	25,400 *	39.3	255.4	27,800	44.4	263.2	25,300	51.9	272.2	21,200							135
140	24.7	226.4	24,600 *	36.0	248.9	26,400	41.4	257.8	24,000	49.2	268.1	20,000	56.1	273.8	16,100				140
145	19.3	214.1	23,900 *	32.4	241.5	25,100	38.2	251.8	22,800	46.5	263.5	19,000	53.6	270.3	15,200				145
150	11.5	195.9	23,300 *	28.3	233.0	23,900	34.8	245.1	21,700	43.6	258.5	18,000	51.0	266.4	14,400				150
155				23.6	222.7	22,700	31.0	237.4	20,600	40.5	253.0	17,100	48.3	262.2	13,600				155
160				17.8	209.5	21,600	26.8	228.3	19,600	37.3	246.8	16,200	45.5	257.5	12,800	52.4	263.1	9,500	160
170							15.4	202.3	17,800	29.9	231.7	14,600	39.4	246.5	11,500	47.1	254.6	8,400	170
180										20.2	210.3	13,200	32.4	232.7	10,300	41.2	244.3	7,400	180
190													23.7	214.0	9,100	34.5	231.5	6,500	190
200													9.3	180.3	8,100	26.5	214.5	5,600	200
210																14.8	187.9	4,800	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

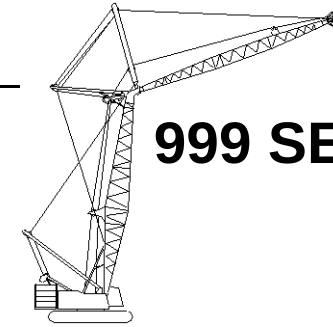
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	75.7	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	34,400 *	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	33,600										110
115	47.1	277.7	26,800 *	54.0	287.9	30,600 *	57.8	292.1	31,600										115
120	44.4	272.8	25,700 *	51.6	284.1	29,300 *	55.5	288.8	29,800	61.6	293.9	25,100							120
125	41.6	267.5	24,700 *	49.1	279.9	28,100 *	53.1	285.2	28,100	59.4	291.1	23,600							125
130	38.6	261.6	23,700 *	46.5	275.4	27,000 *	50.7	281.3	26,600	57.1	288.0	22,300							130
135	35.5	254.9	22,700 *	43.8	270.4	25,900 *	48.2	277.1	25,200	54.8	284.6	21,000							135
140	32.0	247.4	21,800 *	41.0	264.9	24,900 *	45.6	272.4	23,900	52.5	281.0	19,900							140
145	28.2	238.8	21,000 *	38.0	258.9	23,900 *	42.8	267.2	22,700	50.0	276.9	18,800	56.3	282.5	15,100				145
150	23.9	228.6	20,200 *	34.7	252.1	22,900 *	39.9	261.6	21,600	47.5	272.6	17,900	54.0	279.0	14,200				150
155	18.6	215.7	19,500 *	31.2	244.4	22,000 *	36.9	255.2	20,500	44.8	267.8	16,900	51.6	275.2	13,400				155
160	11.2	196.9	18,900 *	27.3	235.4	21,200 *	33.6	248.2	19,500	42.0	262.5	16,100	49.1	271.1	12,700				160
170				17.2	211.0	19,600	25.8	230.6	17,700	36.0	250.1	14,500	43.9	261.6	11,300	50.5	267.9	8,300	170
180							14.8	203.7	16,100	28.8	234.4	13,100	38.0	250.0	10,200	45.4	258.9	7,300	180
190										19.5	212.1	11,800	31.3	235.6	9,100	39.7	248.0	6,400	190
200													22.9	216.1	8,100	33.3	234.5	5,500	200
210													9.0	181.1	7,100	25.5	216.8	4,800	210
220																14.3	189.2	4,100	220

Liftcrane Luffing Jib Capacities

New York City Code

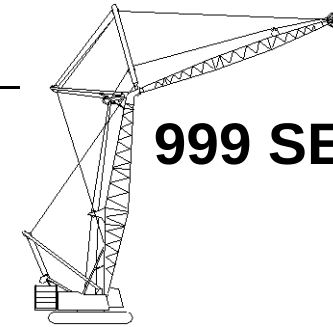
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	74.7	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	23,100							125
130	42.9	276.9	20,800 *	49.8	288.8	24,000 *	53.6	294.0	26,000 *	59.4	299.8	21,800							130
135	40.2	271.2	19,900 *	47.4	284.4	23,000 *	51.3	290.1	24,800	57.3	296.7	20,500							135
140	37.4	265.0	19,000 *	44.9	279.6	21,900 *	49.0	286.0	23,500	55.2	293.3	19,400							140
145	34.3	258.1	18,100 *	42.3	274.4	20,900 *	46.6	281.4	22,300	52.9	289.7	18,400							145
150	31.0	250.3	17,300 *	39.6	268.6	20,000 *	44.0	276.5	21,100	50.7	285.8	17,400	56.6	291.2	13,700				150
155	27.3	241.3	16,600 *	36.7	262.2	19,100 *	41.4	271.1	20,100	48.3	281.5	16,500	54.4	287.7	12,900				155
160	23.1	230.7	15,900 *	33.6	255.1	18,200 *	38.6	265.1	19,100	45.9	276.9	15,600	52.2	284.0	12,200				160
170	10.8	197.9	14,700 *	26.4	237.8	16,700 *	32.5	251.1	17,300	40.6	266.2	14,100	47.5	275.6	10,800				170
180				16.7	212.5	15,300 *	25.0	232.9	15,700	34.8	253.3	12,700	42.4	265.5	9,700	48.8	272.6	6,700	180
190							14.4	204.9	14,300	27.9	236.9	11,400	36.8	253.4	8,600	43.9	263.0	5,800	190
200										18.9	213.7	10,300	30.3	238.3	7,600	38.4	251.6	5,000	200
210													22.2	218.0	6,800	32.2	237.5	4,300	210
220													8.7	181.8	5,900				220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

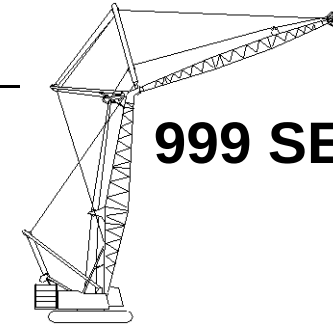
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	75.6	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	21,400							130
135	44.1	286.1	17,800 *	50.4	297.7	20,700 *	54.0	302.7	22,500 *	59.4	308.4	20,200							135
140	41.6	280.7	16,900 *	48.2	293.4	19,700 *	51.9	298.9	21,500 *	57.5	305.4	19,000							140
145	39.0	274.8	16,100 *	45.9	288.7	18,800 *	49.7	294.9	20,500 *	55.4	302.0	18,000							145
150	36.2	268.3	15,300 *	43.5	283.7	17,800 *	47.4	290.4	19,500 *	53.4	298.5	17,000							150
155	33.3	261.1	14,500 *	41.0	278.2	17,000 *	45.1	285.7	18,500 *	51.2	294.6	16,100	56.8	299.9	12,500				155
160	30.0	253.0	13,800 *	38.4	272.1	16,100 *	42.7	280.5	17,600 *	49.1	290.4	15,300	54.7	296.4	11,800				160
170	22.4	232.7	12,300 *	32.6	258.1	14,600 *	37.4	268.6	15,900 *	44.4	281.0	13,700	50.5	288.8	10,500				170
180	10.5	198.8	10,800 *	25.6	240.1	13,100 *	31.5	254.0	14,400 *	39.4	269.9	12,300	46.0	279.9	9,300	51.7	285.6	6,300	180
190				16.2	214.0	11,400 *	24.2	235.1	12,800 *	33.7	256.4	11,100	41.1	269.3	8,200	47.3	277.0	5,500	190
200							13.9	206.2	11,200 *	27.0	239.3	10,000	35.6	256.7	7,300	42.5	267.0	4,700	200
210										18.3	215.4	9,000	29.4	241.0	6,400				210
220													21.5	220.0	5,600				220
230													8.4	182.6	4,900				230

Liftcrane Luffing Jib Capacities

New York City Code

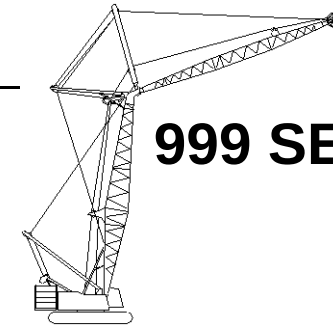
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	84,200 b																65
70	35.7	218.8	71,100 *	53.1	232.5	76,800 b	61.6	236.7	72,800 b													70
75	28.0	210.7	65,500 *	47.8	228.4	70,500	56.9	233.7	66,800 b													75
80	17.3	198.8	55,100 *	42.0	223.3	65,100	51.8	230.1	61,700 b													80
85				35.4	217.1	60,400	46.4	225.8	57,200	61.1	233.0	52,000 b										85
90				27.6	208.9	56,200	40.5	220.5	53,300	56.3	229.9	48,500 b										90
95				16.7	196.6	52,500	33.7	213.9	49,900	51.2	226.3	45,300 b										95
100							25.3	205.1	46,800	45.8	221.9	42,500										100
105							12.8	190.6	43,900	39.7	216.4	40,000	55.4	224.7	36,000 b							105
110										32.8	209.6	37,700	50.3	220.9	33,900 b							110
115										24.2	200.4	35,600	44.7	216.3	32,100							115
120										10.5	184.5	33,600	38.6	210.7	30,400							120
125													31.4	203.5	28,800	48.8	213.9	25,600				125
130													22.3	193.7	27,300	43.1	209.0	24,300				130
135													4.9	173.0	25,800	36.7	203.0	23,100				135
140																29.2	195.3	22,000				140
145																19.2	184.2	20,900	46.7	205.1	19,300	145
150																			40.7	199.8	18,400	150
155																			34.0	193.3	17,500	155
160																			25.7	184.6	16,700	160
																			13.6	170.6	15,900	160

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

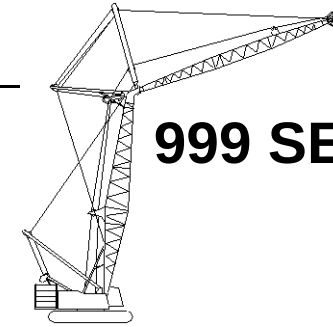
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	86,200 *b																60
65	49.6	238.8	73,900 *	62.4	247.4	83,800 b																65
70	44.7	234.2	68,900 *	58.3	244.6	76,400 b	65.4	247.9	72,400 b													70
75	39.4	228.7	64,200 *	54.0	241.2	70,200	61.4	245.4	66,400 b													75
80	33.4	221.9	59,900 *	49.4	237.3	64,800	57.3	242.4	61,300 b													80
85	26.1	213.1	56,000 *	44.5	232.6	60,100	52.9	238.9	56,900													85
90	16.2	200.2	48,300 *	39.1	227.0	56,000	48.3	234.8	53,000	61.0	241.6	48,000 b										90
95				33.1	220.2	52,400	43.3	229.9	49,600	56.8	238.6	44,900 b										95
100				25.8	211.3	49,100	37.7	224.1	46,500	52.4	235.1	42,100										100
105				15.6	198.1	46,200	31.4	216.8	43,800	47.7	230.9	39,600										105
110							23.7	207.2	41,200	42.7	225.9	37,400	56.0	233.4	33,500							110
115							12.0	191.7	38,900	37.1	219.9	35,300	51.6	229.7	31,600							115
120										30.6	212.5	33,400	46.8	225.4	30,000							120
125										22.7	202.5	31,700	41.7	220.3	28,400							125
130										9.8	185.3	30,000	36.0	214.0	27,000	50.3	222.7	23,900				130
135													29.3	206.2	25,700	45.5	218.2	22,700				135
140													20.9	195.6	24,400	40.2	212.8	21,600				140
145													4.6	173.5	23,200	34.3	206.2	20,600				145
150																27.3	197.8	19,600	43.5	209.2	17,100	150
155																17.9	185.8	18,700	38.0	203.4	16,300	155
160																			31.7	196.2	15,500	160
170																			12.7	171.7	14,100	170

Liftcrane Luffing Jib Capacities

New York City Code

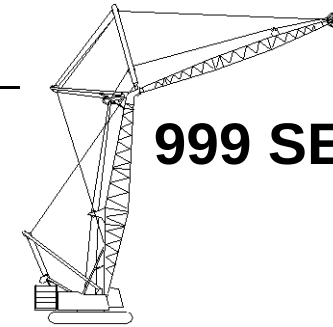
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	69.3	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	78,200 *b																60
65	54.8	251.5	67,000 *	65.7	258.5	75,000 b																65
70	50.9	247.7	64,700 *	62.1	256.1	68,200 b																70
75	46.6	243.3	61,500 *	58.5	253.3	62,400	64.8	256.6	57,500 b													75
80	42.1	238.2	57,600 *	54.7	250.0	57,500	61.3	254.0	52,900 b													80
85	37.1	232.1	53,900 *	50.7	246.1	53,200	57.6	251.1	48,900													85
90	31.4	224.8	50,500 *	46.4	241.7	49,400	53.7	247.6	45,400													90
95	24.6	215.4	47,600 *	41.8	236.6	46,000	49.7	243.7	42,300	60.9	250.3	36,100 b										95
100	15.3	201.6	42,900 *	36.8	230.5	43,100	45.3	239.1	39,500	57.1	247.3	33,700										100
105				31.1	223.0	40,400	40.7	233.7	37,100	53.3	243.8	31,600										105
110				24.3	213.5	37,900	35.5	227.4	34,800	49.2	239.8	29,600										110
115				14.7	199.4	35,700	29.6	219.5	32,800	44.8	235.1	27,800	56.4	242.1	23,000							115
120							22.3	209.3	30,900	40.1	229.7	26,200	52.5	238.5	21,600							120
125							11.3	192.7	29,100	34.9	223.2	24,700	48.4	234.4	20,300							125
130										28.9	215.1	23,400	44.0	229.6	19,100							130
135										21.3	204.5	22,100	39.2	223.9	18,100	51.4	231.6	14,100				135
140										9.3	186.2	20,800	33.9	217.2	17,100	47.2	227.3	13,300				140
145													27.6	208.8	16,100	42.7	222.3	12,500				145
150													19.7	197.4	15,200	37.8	216.3	11,800				150
155													4.3	173.9	14,200	32.2	209.2	11,100	45.5	218.4	7,800	155
160																25.7	200.2	10,400	40.9	213.1	7,300	160
170																			29.9	199.0	6,300	170
180																			11.9	172.8	5,300	180

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

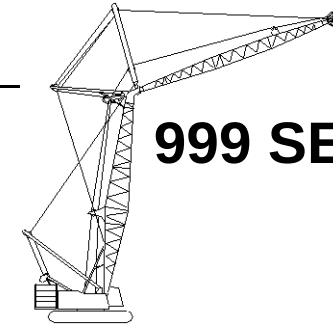
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	70,700 *b																65
70	55.4	260.2	59,800 *	65.1	267.3	67,700 b																70
75	51.8	256.5	57,600 *	61.9	264.8	62,000	67.5	267.5	57,000 b													75
80	48.1	252.3	55,100 *	58.6	261.9	57,000	64.4	265.3	52,400													80
85	44.1	247.5	51,800 *	55.2	258.7	52,700	61.1	262.7	48,400													85
90	39.8	241.9	48,600 *	51.6	254.9	49,000	57.8	259.7	44,900													90
95	35.1	235.4	45,700 *	47.9	250.7	45,600	54.4	256.4	41,800													95
100	29.8	227.5	43,000 *	43.9	245.9	42,700	50.8	252.5	39,100	60.8	259.0	33,100										100
105	23.3	217.5	40,500 *	39.6	240.3	40,000	46.9	248.2	36,600	57.4	256.0	31,000										105
110	14.5	202.9	38,200 *	34.9	233.7	37,600	42.9	243.2	34,400	54.0	252.6	29,100										110
115				29.5	225.7	35,400	38.5	237.3	32,400	50.3	248.7	27,300										115
120				23.0	215.6	33,400	33.6	230.5	30,500	46.5	244.2	25,700	56.8	250.7	21,000							120
125				14.0	200.6	31,500	28.0	222.1	28,800	42.4	239.1	24,300	53.3	247.2	19,700							125
130							21.1	211.2	27,300	38.0	233.2	22,900	49.7	243.3	18,600							130
135							10.7	193.6	25,700	33.0	226.2	21,700	45.8	238.7	17,500							135
140										27.3	217.6	20,500	41.6	233.5	16,500	52.3	240.3	12,700				140
145										20.2	206.3	19,400	37.1	227.4	15,600	48.6	236.2	11,900				145
150										8.8	187.0	18,300	32.1	220.1	14,800	44.7	231.5	11,200				150
155													26.2	211.2	13,900	40.4	226.0	10,500				155
160													18.7	199.0	13,200	35.8	219.7	9,900	47.1	227.4	6,700	160
170																24.3	202.4	8,700	38.7	216.7	5,700	170
180																			28.3	201.6	4,900	180
190																			11.3	173.8	4,000	190

Liftcrane Luffing Jib Capacities

New York City Code

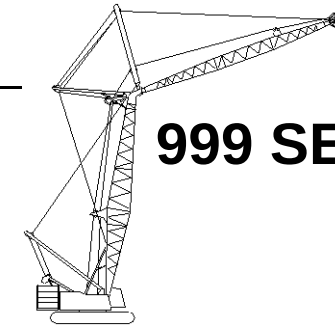
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	73.2	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	52,300													80
85	49.2	261.2	47,600 *	58.8	270.6	52,600	64.0	273.9	48,300													85
90	45.7	256.6	46,100 *	55.7	267.4	48,900	61.0	271.3	44,800													90
95	41.9	251.4	43,500 *	52.4	263.7	45,600	58.0	268.4	41,800													95
100	37.9	245.4	41,100 *	49.1	259.6	42,600	54.9	265.1	39,000													100
105	33.4	238.5	38,900 *	45.5	255.0	40,000	51.6	261.4	36,600	60.7	267.6	30,900										105
110	28.3	230.1	36,800 *	41.8	249.8	37,600	48.2	257.1	34,400	57.7	264.6	29,000										110
115	22.2	219.5	35,000 *	37.7	243.8	35,400	44.6	252.4	32,400	54.5	261.3	27,300										115
120	13.8	204.2	33,700 *	33.2	236.8	33,500	40.8	247.0	30,500	51.3	257.5	25,700										120
125				28.1	228.3	31,600	36.6	240.7	28,900	47.8	253.2	24,200	57.1	259.4	19,700							125
130				21.9	217.6	30,000	32.0	233.4	27,300	44.2	248.4	22,900	53.9	256.0	18,500							130
135				13.3	201.8	28,400	26.7	224.5	25,900	40.4	242.9	21,700	50.7	252.1	17,500							135
140							20.2	213.0	24,500	36.1	236.6	20,500	47.2	247.8	16,500							140
145							10.2	194.6	23,200	31.5	229.1	19,400	43.5	242.8	15,600							145
150										26.0	220.0	18,400	39.6	237.2	14,800	49.7	245.1	11,200				150
155										19.3	208.0	17,500	35.3	230.7	14,000	46.2	240.6	10,500				155
160										8.4	187.7	16,500	30.5	222.9	13,200	42.5	235.5	9,900				160
170													17.8	200.6	11,800	34.1	222.8	8,700	44.8	231.7	5,700	170
180																23.2	204.5	7,700	36.8	220.1	4,900	180
190																			27.0	204.0	4,100	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

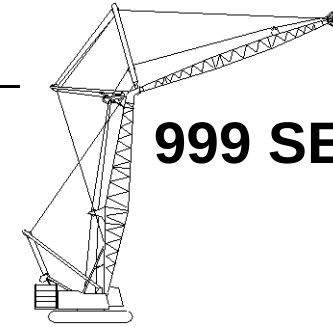
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	47,800										85
90	50.2	270.1	42,400 *	58.9	279.2	48,000 *	63.6	282.6	44,300										90
95	47.0	265.7	40,900 *	56.0	276.0	45,200	61.0	280.0	41,300										95
100	43.7	260.7	39,500 *	53.1	272.5	42,200	58.2	277.1	38,500										100
105	40.1	255.1	37,500 *	50.1	268.5	39,600	55.3	273.8	36,100										105
110	36.2	248.8	35,500 *	46.9	264.1	37,200	52.4	270.1	33,900	60.6	276.3	28,500							110
115	32.0	241.4	33,700 *	43.5	259.1	35,000	49.3	266.1	31,900	57.9	273.3	26,700							115
120	27.1	232.6	32,100 *	39.9	253.5	33,100	46.1	261.5	30,100	55.0	270.0	25,200							120
125	21.3	221.4	30,600 *	36.0	247.1	31,300	42.6	256.4	28,400	52.0	266.3	23,700							125
130	13.2	205.3	29,500 *	31.7	239.7	29,600	39.0	250.6	26,900	48.9	262.2	22,400	57.3	268.1	18,000				130
135				26.9	230.8	28,100	35.0	244.0	25,500	45.7	257.6	21,200	54.5	264.7	16,900				135
140				21.0	219.5	26,700	30.6	236.2	24,200	42.2	252.4	20,000	51.5	260.9	16,000				140
145				12.7	203.0	25,300	25.6	226.9	23,000	38.6	246.5	19,000	48.4	256.7	15,100				145
150							19.3	214.7	21,800	34.6	239.8	18,000	45.1	252.0	14,200				150
155							9.8	195.4	20,700	30.1	231.9	17,100	41.6	246.7	13,500	50.6	254.0	9,900	155
160										24.9	222.3	16,200	37.9	240.7	12,700	47.5	249.6	9,300	160
170										8.0	188.4	14,500	29.2	225.6	11,400	40.6	239.3	8,200	170
180													17.0	202.2	10,100	32.6	225.8	7,200	180
190																22.2	206.5	6,300	190

Liftcrane Luffing Jib Capacities

New York City Code

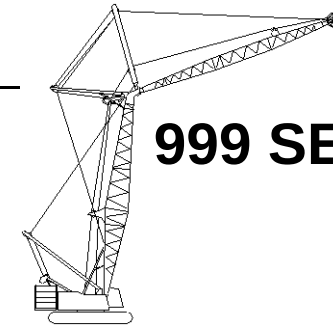
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	44,000										90
95	51.0	278.9	37,800 *	59.0	287.9	42,800 *	63.4	291.3	40,900										95
100	48.1	274.6	36,500 *	56.3	284.7	41,300 *	60.9	288.7	38,200										100
105	45.1	269.9	35,300 *	53.7	281.2	39,300	58.3	285.7	35,800										105
110	41.9	264.6	34,100 *	50.9	277.4	36,900	55.7	282.5	33,600										110
115	38.4	258.7	32,600 *	48.0	273.1	34,700	53.0	278.9	31,600	60.6	284.9	26,300							115
120	34.7	252.0	31,000 *	44.9	268.3	32,800	50.2	274.9	29,800	58.0	282.0	24,800							120
125	30.7	244.2	29,500 *	41.7	263.0	31,000	47.2	270.5	28,100	55.4	278.7	23,400							125
130	26.0	234.9	28,200 *	38.3	257.1	29,400	44.2	265.7	26,600	52.7	275.1	22,000							130
135	20.4	223.3	27,000 *	34.6	250.3	27,800	40.9	260.2	25,200	49.8	271.1	20,800	57.6	276.8	16,500				135
140	12.7	206.5	26,100 *	30.5	242.4	26,400	37.4	254.1	23,900	46.9	266.6	19,700	54.9	273.4	15,600				140
145				25.8	233.1	25,100	33.6	247.1	22,700	43.8	261.7	18,700	52.2	269.7	14,700				145
150				20.1	221.3	23,900	29.4	238.9	21,600	40.5	256.2	17,700	49.3	265.6	13,900				150
155				12.2	204.1	22,700	24.5	229.1	20,500	37.0	249.9	16,800	46.3	261.1	13,100				155
160							18.5	216.4	19,500	33.2	242.8	15,900	43.2	256.1	12,400	51.4	262.8	8,900	160
170										23.9	224.4	14,400	36.3	244.0	11,100	45.5	253.9	7,800	170
180										7.7	189.1	12,900	28.0	228.2	9,900	38.9	242.9	6,900	180
190													16.4	203.6	8,800	31.3	228.7	6,000	190
200																21.3	208.4	5,200	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

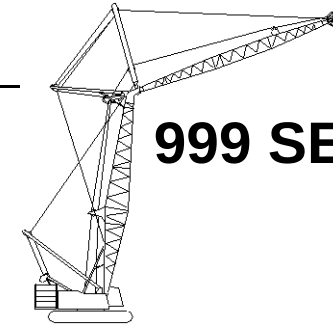
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	40,400										95
100	51.7	287.7	33,200 *	59.0	296.6	37,700 *	63.1	300.0	37,700										100
105	49.0	283.6	32,000 *	56.6	293.4	36,400 *	60.8	297.3	35,300										105
110	46.2	279.0	30,700 *	54.1	290.0	35,000 *	58.4	294.4	33,100										110
115	43.3	274.0	29,600 *	51.6	286.2	33,800 *	56.0	291.2	31,100	62.9	296.3	25,800							115
120	40.3	268.4	28,500 *	48.9	282.0	32,400	53.5	287.6	29,300	60.6	293.6	24,200							120
125	37.0	262.1	27,500 *	46.1	277.4	30,600	50.9	283.8	27,700	58.2	290.6	22,800							125
130	33.4	255.0	26,500 *	43.2	272.4	29,000	48.2	279.5	26,200	55.7	287.4	21,500							130
135	29.5	246.9	25,600 *	40.1	266.8	27,500	45.4	274.8	24,800	53.2	283.8	20,300							135
140	25.1	237.2	24,700 *	36.8	260.5	26,100	42.5	269.6	23,500	50.6	279.9	19,200	57.7	285.4	15,000				140
145	19.7	225.0	23,900 *	33.3	253.3	24,800	39.3	263.9	22,300	47.9	275.6	18,200	55.3	282.1	14,100				145
150	12.2	207.6	23,200 *	29.3	245.1	23,500	36.0	257.4	21,200	45.1	270.9	17,200	52.7	278.5	13,300				150
155				24.8	235.3	22,400	32.4	250.0	20,100	42.1	265.6	16,300	50.1	274.5	12,600				155
160				19.4	223.0	21,300	28.3	241.5	19,100	39.0	259.8	15,500	47.4	270.1	11,800				160
170							17.8	218.0	17,300	31.9	245.7	13,900	41.6	259.9	10,600	49.4	267.5	7,300	170
180										23.0	226.5	12,500	35.0	247.3	9,400	43.8	258.0	6,300	180
190										7.4	189.8	11,200	27.0	230.6	8,400	37.5	246.4	5,500	190
200													15.8	205.1	7,400	30.1	231.4	4,700	200

Liftcrane Luffing Jib Capacities

New York City Code

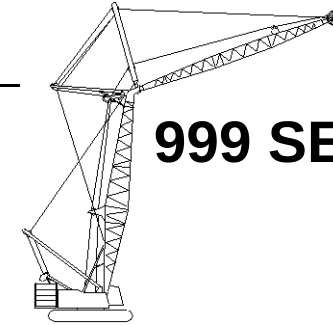
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	75.8	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	35,100										105
110	49.8	292.5	28,000 *	56.8	302.1	32,100 *	60.8	306.0	32,900										110
115	47.3	288.0	26,900 *	54.5	298.7	30,900 *	58.5	303.1	31,000										115
120	44.6	283.2	25,800 *	52.1	295.0	29,600 *	56.3	299.9	29,200	62.7	305.0	24,100							120
125	41.8	277.9	24,800 *	49.7	290.9	28,500 *	54.0	296.4	27,500	60.5	302.3	22,700							125
130	38.9	272.0	23,800 *	47.1	286.5	27,300 *	51.6	292.6	26,000	58.3	299.3	21,400							130
135	35.7	265.4	22,800 *	44.5	281.6	26,200 *	49.1	288.4	24,600	56.0	296.1	20,200							135
140	32.3	258.0	21,900 *	41.7	276.3	25,200 *	46.5	283.9	23,400	53.7	292.6	19,100							140
145	28.5	249.5	21,100 *	38.7	270.3	24,200 *	43.8	278.9	22,200	51.3	288.7	18,000	57.9	294.1	14,000				145
150	24.2	239.4	20,300 *	35.5	263.7	23,200 *	41.0	273.4	21,100	48.8	284.5	17,100	55.6	290.8	13,200				150
155	19.0	226.7	19,600 *	32.1	256.3	22,300 *	38.0	267.4	20,000	46.2	280.0	16,200	53.3	287.2	12,400				155
160	11.8	208.6	19,000 *	28.3	247.7	21,300	34.7	260.6	19,100	43.5	274.9	15,300	50.8	283.3	11,700				160
170				18.7	224.7	19,400	27.3	243.9	17,300	37.6	263.2	13,800	45.7	274.4	10,400	52.6	280.3	7,100	170
180							17.2	219.5	15,700	30.8	248.5	12,500	40.1	263.7	9,300	47.6	272.0	6,200	180
190										22.3	228.5	11,200	33.7	250.4	8,300	42.2	262.0	5,300	190
200										7.2	190.4	10,100	26.1	233.0	7,300	36.2	249.7	4,600	200
210													15.2	206.4	6,400				210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

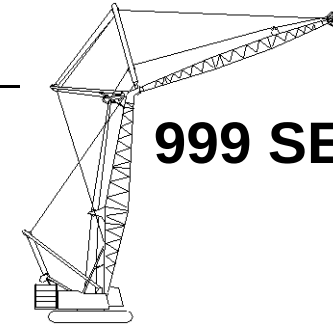
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	27,100	62.5	313.6	22,100							125
130	43.1	287.2	20,900 *	50.4	299.8	24,400 *	54.3	305.1	25,600	60.5	310.9	20,800							130
135	40.4	281.6	20,000 *	48.0	295.4	23,300 *	52.1	301.4	24,200	58.4	308.0	19,700							135
140	37.6	275.4	19,100 *	45.5	290.7	22,200 *	49.8	297.3	22,900	56.3	304.8	18,600							140
145	34.5	268.6	18,200 *	43.0	285.6	21,200 *	47.4	292.9	21,700	54.1	301.3	17,500							145
150	31.2	260.8	17,400 *	40.3	280.0	20,300 *	44.9	288.1	20,600	51.9	297.5	16,600	58.0	302.8	12,600				150
155	27.6	252.0	16,700 *	37.4	273.8	19,400 *	42.3	282.9	19,600	49.5	293.4	15,700	55.9	299.5	11,900				155
160	23.4	241.5	16,000 *	34.4	266.9	18,500 *	39.6	277.1	18,600	47.1	289.0	14,900	53.7	296.0	11,200				160
170	11.4	209.6	14,800 *	27.4	250.2	16,900 *	33.6	263.6	16,900	42.0	278.8	13,400	49.1	288.0	9,900				170
180				18.1	226.3	15,500 *	26.4	246.3	15,300	36.4	266.6	12,000	44.2	278.6	8,800	50.8	285.2	5,600	180
190							16.7	221.0	13,900	29.8	251.2	10,800	38.8	267.2	7,800	46.0	276.3	4,800	190
200										21.5	230.4	9,700	32.6	253.3	6,900	40.8	265.7	4,100	200
210										6.9	191.0	8,700	25.2	235.2	6,000				210
220													14.7	207.7	5,200				220

Liftcrane Luffing Jib Capacities

New York City Code

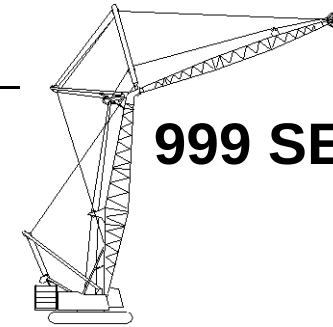
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	20,500				130
135	44.2	296.5	17,900 *	51.0	308.6	21,000 *	54.7	313.8	22,900 *	60.5	319.6	19,300				135
140	41.8	291.1	17,000 *	48.8	304.4	20,000 *	52.6	310.1	21,900 *	58.5	316.6	18,200				140
145	39.2	285.2	16,200 *	46.5	299.8	19,100 *	50.4	306.2	20,900 *	56.5	313.5	17,200				145
150	36.4	278.8	15,400 *	44.1	294.9	18,100 *	48.2	301.9	19,900 *	54.5	310.0	16,200				150
155	33.5	271.6	14,600 *	41.6	289.5	17,200 *	45.9	297.2	18,900 *	52.4	306.3	15,300				155
160	30.3	263.6	13,900 *	39.0	283.6	16,400 *	43.5	292.2	18,000 *	50.2	302.3	14,500	56.1	308.2	10,800	160
170	22.7	243.5	12,400 *	33.3	269.9	14,800 *	38.4	280.6	16,300 *	45.7	293.3	13,000	52.0	300.9	9,500	170
180	11.1	210.6	10,900 *	26.6	252.6	13,400 *	32.6	266.6	14,700 *	40.7	282.6	11,700	47.5	292.5	8,400	180
190				17.6	227.9	11,700 *	25.6	248.6	13,200 *	35.3	269.8	10,500	42.8	282.5	7,400	190
200							16.2	222.5	11,500 *	28.9	253.9	9,400	37.6	270.7	6,500	200
210										20.9	232.3	8,400	31.6	256.2	5,700	210
220										6.7	191.6	7,500	24.5	237.4	4,900	220
230													14.3	209.0	4,200	230

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

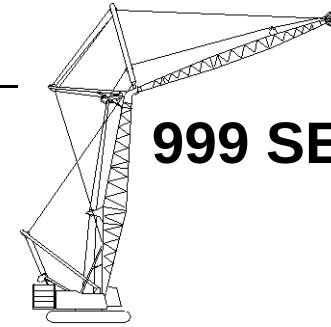
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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	83,500 b																65
70	36.2	229.2	68,500 *	54.3	243.3	76,200 b																70
75	28.6	221.4	63,100 *	49.1	239.4	69,900 b	58.5	244.7	66,000 b													75
80	18.3	209.8	56,300 *	43.4	234.6	64,600	53.6	241.3	60,900 b													80
85				37.1	228.7	59,900	48.3	237.2	56,500 b													85
90				29.7	221.1	55,800	42.6	232.3	52,700	58.8	241.2	47,400 b										90
95				19.9	210.3	52,100	36.1	226.2	49,200	53.9	237.9	44,300 b										95
100							28.5	218.3	46,200	48.7	233.9	41,600 b										100
105							18.1	206.7	43,400	42.9	229.0	39,100										105
110										36.5	223.0	36,900	53.8	232.9	32,800 b							110
115										29.0	215.3	34,800	48.6	228.9	31,000							115
120										18.9	204.0	32,900	42.8	224.0	29,300							120
125													36.4	218.0	27,800							125
130													28.8	210.2	26,400	47.9	222.2	23,100				130
135													18.7	198.8	25,100	42.2	217.2	22,000				135
140																35.6	211.0	20,900				140
145																27.9	203.0	19,900	46.7	213.7	17,200	145
150																17.1	190.9	19,000	40.7	208.5	16,300	150
155																			34.0	201.9	15,600	155
160																			25.7	193.2	14,800	160

Liftcrane Luffing Jib Capacities

New York City Code

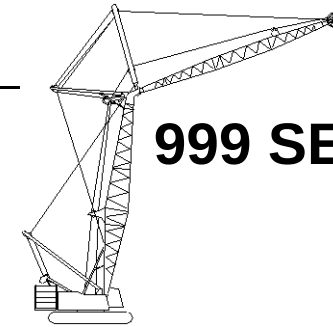
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	62.9	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	74,500 b																65
70	45.1	244.5	65,900 *	59.3	255.2	67,700 b																70
75	39.8	239.1	61,700 *	55.0	252.0	62,000 b	62.8	256.1	56,700 b													75
80	33.8	232.4	57,700 *	50.6	248.2	57,000	58.7	253.3	52,200 b													80
85	26.7	223.8	54,000 *	45.7	243.8	52,800	54.4	250.0	48,200													85
90	17.1	211.4	49,300 *	40.5	238.4	49,000	49.9	246.1	44,800													90
95				34.6	231.9	45,700	45.0	241.6	41,700	59.0	249.9	35,100 b										95
100				27.7	223.6	42,700	39.7	236.1	39,000	54.7	246.6	32,800										100
105				18.6	211.9	40,000	33.7	229.4	36,500	50.2	242.8	30,700										105
110							26.6	220.8	34,300	45.3	238.2	28,800										110
115							16.9	208.3	32,200	40.0	232.8	27,000	54.6	241.7	21,900							115
120										34.1	226.2	25,500	50.1	237.8	20,500							120
125										27.1	217.8	24,000	45.2	233.3	19,300							125
130										17.6	205.6	22,600	40.0	227.8	18,200							130
135													34.0	221.2	17,100	49.6	231.1	12,900				135
140													26.9	212.7	16,100	44.7	226.5	12,100				140
145													17.4	200.4	15,200	39.3	220.9	11,400				145
150																33.3	214.1	10,700				150
155																26.0	205.4	10,000	43.5	217.9	6,600	155
160																16.0	192.3	9,400	38.0	212.1	6,100	160
170																			24.1	195.4	5,200	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

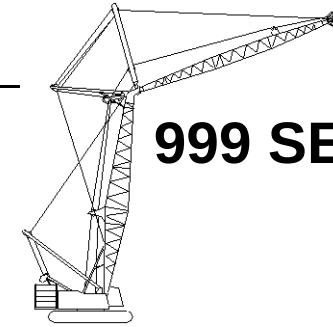
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	74,100 b																65
70	51.1	258.0	62,800 *	63.0	266.7	67,400 b																70
75	46.9	253.6	59,000 *	59.4	263.9	61,700	66.1	267.2	56,400 b													75
80	42.4	248.6	55,400 *	55.6	260.7	56,800	62.5	264.8	51,800 b													80
85	37.4	242.6	52,000 *	51.7	257.0	52,500	58.9	262.0	47,900													85
90	31.8	235.3	48,900 *	47.5	252.8	48,800	55.1	258.7	44,500													90
95	25.1	226.1	46,000 *	43.0	247.8	45,500	51.1	255.0	41,400	62.7	261.3	34,800 b										95
100	16.1	212.8	43,800 *	38.1	242.0	42,500	46.9	250.6	38,700	59.1	258.6	32,400										100
105				32.6	234.9	39,900	42.3	245.6	36,300	55.3	255.3	30,300										105
110				26.1	226.0	37,400	37.4	239.6	34,100	51.3	251.6	28,500										110
115				17.5	213.5	35,200	31.8	232.3	32,100	47.1	247.3	26,700										115
120							25.1	223.1	30,200	42.6	242.3	25,200	55.2	250.4	20,200							120
125							16.0	209.7	28,500	37.7	236.4	23,700	51.3	246.6	19,000							125
130										32.1	229.2	22,400	47.1	242.3	17,900							130
135										25.5	220.1	21,200	42.5	237.3	16,800							135
140										16.6	207.1	20,000	37.6	231.3	15,900	50.8	240.0	11,800				140
145													32.0	224.1	15,000	46.6	235.6	11,100				145
150													25.4	215.0	14,100	42.0	230.5	10,400				150
155													16.4	201.9	13,300	37.0	224.4	9,700				155
160																31.3	217.0	9,100	45.5	227.1	5,800	160
170																15.1	193.7	8,000	35.7	215.4	4,900	170
180																			22.7	197.5	4,100	180

Liftcrane Luffing Jib Capacities

New York City Code

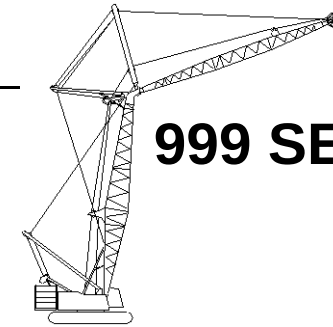
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	66,900 b													70
75	52.1	266.8	56,200 *	62.7	275.3	61,200													75
80	48.3	262.6	53,000 *	59.4	272.6	56,300	65.5	275.9	51,300 b										80
85	44.4	257.8	49,900 *	56.1	269.4	52,000	62.3	273.5	47,400										85
90	40.1	252.3	47,000 *	52.5	265.8	48,300	59.0	270.6	44,000										90
95	35.4	245.9	44,300 *	48.8	261.7	45,000	55.6	267.4	40,900										95
100	30.2	238.1	41,800 *	44.9	257.0	42,100	52.0	263.8	38,200	62.5	270.0	31,800							100
105	23.8	228.3	39,500 *	40.7	251.6	39,500	48.3	259.6	35,800	59.2	267.2	29,800							105
110	15.3	214.2	37,800 *	36.1	245.3	37,100	44.3	254.8	33,600	55.8	264.0	27,900							110
115				30.9	237.8	34,900	40.1	249.3	31,700	52.2	260.4	26,200							115
120				24.7	228.3	33,000	35.4	242.9	29,900	48.5	256.3	24,700							120
125				16.6	215.0	31,100	30.1	235.1	28,200	44.6	251.5	23,200	55.7	259.1	18,400				125
130							23.8	225.2	26,600	40.3	246.1	21,900	52.2	255.4	17,300				130
135							15.1	211.1	25,200	35.7	239.7	20,700	48.5	251.3	16,300				135
140										30.4	232.0	19,600	44.5	246.5	15,300				140
145										24.2	222.3	18,500	40.3	241.1	14,500	51.8	248.8	10,400	145
150										15.8	208.5	17,500	35.6	234.6	13,700	48.0	244.6	9,800	150
155													30.3	226.9	12,900	44.0	239.8	9,200	155
160													24.0	217.2	12,100	39.7	234.2	8,600	160
170																29.7	219.8	7,500	170
180																14.3	195.0	6,500	180

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

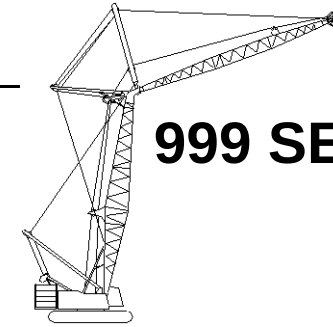
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	55,500 *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	51,200 b										80
85	49.5	271.5	47,000 *	59.5	281.2	52,000	65.0	284.6	47,300										85
90	46.0	267.0	44,500 *	56.4	278.1	48,300	62.1	282.1	43,900										90
95	42.2	261.8	42,100 *	53.2	274.6	45,000	59.1	279.3	40,900										95
100	38.2	255.9	39,900 *	49.9	270.6	42,100	56.0	276.1	38,200										100
105	33.7	249.0	37,800 *	46.4	266.1	39,500	52.8	272.5	35,800	62.2	278.7	29,700							105
110	28.7	240.7	35,900 *	42.7	261.1	37,100	49.4	268.5	33,600	59.3	275.9	27,800							110
115	22.7	230.4	34,200 *	38.7	255.3	35,000	45.9	264.0	31,600	56.2	272.7	26,200							115
120	14.6	215.5	33,000 *	34.3	248.5	33,000	42.2	258.8	29,800	53.0	269.2	24,600							120
125				29.4	240.5	31,200	38.1	252.9	28,200	49.6	265.2	23,200							125
130				23.6	230.4	29,500	33.7	246.0	26,700	46.1	260.6	21,900	56.1	267.8	17,200				130
135				15.8	216.5	28,000	28.7	237.7	25,300	42.4	255.5	20,700	52.9	264.2	16,200				135
140							22.6	227.3	24,000	38.4	249.6	19,600	49.6	260.2	15,300				140
145							14.4	212.4	22,700	34.0	242.8	18,600	46.1	255.7	14,400				145
150										29.0	234.6	17,600	42.3	250.5	13,600	52.5	257.6	9,700	150
155										23.0	224.4	16,700	38.3	244.6	12,900	49.2	253.5	9,100	155
160										15.0	209.9	15,800	33.9	237.8	12,200	45.7	248.9	8,600	160
170													22.9	219.3	10,900	37.8	237.7	7,500	170
180																28.3	222.3	6,600	180
190																13.7	196.2	5,700	190

Liftcrane Luffing Jib Capacities

New York City Code

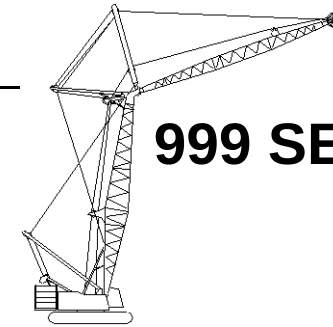
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	46,800										85
90	50.4	280.4	42,400 *	59.5	289.9	47,800	64.6	293.3	43,400										90
95	47.2	276.0	40,300 *	56.7	286.8	44,500	61.9	290.8	40,400										95
100	43.9	271.1	38,300 *	53.8	283.3	41,600	59.2	288.0	37,700										100
105	40.3	265.6	36,400 *	50.8	279.5	39,000	56.3	284.8	35,300										105
110	36.5	259.3	34,600 *	47.7	275.1	36,700	53.4	281.3	33,100	62.1	287.4	27,300							110
115	32.3	251.9	32,900 *	44.3	270.3	34,600	50.4	277.4	31,200	59.3	284.6	25,600							115
120	27.5	243.2	31,300 *	40.8	264.9	32,600	47.2	273.0	29,400	56.5	281.4	24,100							120
125	21.7	232.3	29,900 *	37.0	258.7	30,800	43.9	268.1	27,800	53.6	277.9	22,700							125
130	13.9	216.8	28,900 *	32.8	251.5	29,200	40.3	262.5	26,300	50.6	274.0	21,400							130
135				28.1	243.0	27,700	36.4	256.2	24,900	47.4	269.7	20,200	56.4	276.5	15,600				135
140				22.5	232.5	26,300	32.2	248.9	23,600	44.1	264.8	19,100	53.5	272.9	14,700				140
145				15.1	217.8	24,900	27.4	240.2	22,400	40.5	259.3	18,100	50.5	269.0	13,900				145
150							21.7	229.2	21,300	36.7	253.0	17,200	47.3	264.7	13,100				150
155							13.8	213.6	20,200	32.5	245.8	16,300	44.0	259.8	12,400				155
160										27.7	237.1	15,400	40.4	254.3	11,700	50.2	262.4	8,000	160
170										14.4	211.2	13,900	32.4	240.7	10,400	43.6	253.0	7,000	170
180													21.9	221.2	9,200	36.2	241.1	6,000	180
190																27.0	224.8	5,200	190
200																13.1	197.4	4,400	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

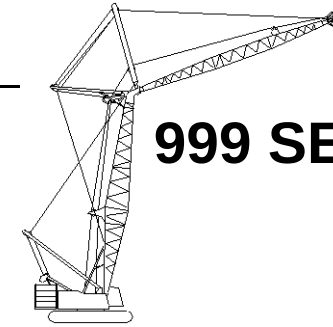
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	43,000										90
95	51.2	289.2	37,800 *	59.6	298.6	42,900 *	64.2	302.0	40,000										95
100	48.3	285.0	36,500 *	57.0	295.5	41,300	61.8	299.5	37,300										100
105	45.3	280.3	34,900 *	54.3	292.0	38,700	59.2	296.6	34,900										105
110	42.1	275.0	33,300 *	51.6	288.3	36,400	56.6	293.5	32,800										110
115	38.7	269.1	31,700 *	48.7	284.1	34,300	53.9	290.0	30,800	61.9	296.0	25,200							115
120	35.0	262.5	30,200 *	45.7	279.5	32,300	51.2	286.2	29,100	59.4	293.2	23,700							120
125	31.0	254.8	28,800 *	42.5	274.3	30,600	48.3	282.0	27,400	56.8	290.1	22,300							125
130	26.4	245.6	27,600 *	39.1	268.5	28,900	45.2	277.3	26,000	54.1	286.7	21,000							130
135	20.9	234.2	26,400 *	35.5	262.0	27,400	42.1	272.0	24,600	51.3	282.8	19,900							135
140	13.4	218.0	25,600 *	31.5	254.4	26,000	38.6	266.1	23,300	48.4	278.6	18,800	56.7	285.1	14,300				140
145				27.0	245.5	24,700	35.0	259.5	22,100	45.4	274.0	17,800	54.0	281.7	13,500				145
150				21.6	234.4	23,500	30.9	251.7	21,000	42.2	268.7	16,800	51.3	277.9	12,700				150
155				14.6	219.1	22,400	26.3	242.6	20,000	38.9	262.9	16,000	48.4	273.6	12,000				155
160							20.8	231.1	19,000	35.2	256.3	15,100	45.4	269.0	11,300				160
170										26.6	239.6	13,600	38.8	257.9	10,100	48.1	267.0	6,600	170
180										13.8	212.4	12,200	31.1	243.6	9,000	41.8	256.9	5,700	180
190													21.1	223.1	7,900	34.7	244.2	4,900	190
200																26.0	227.1	4,100	200

Liftcrane Luffing Jib Capacities

New York City Code

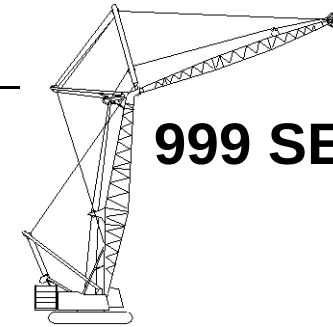
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	74.9	323.0	45,400 *																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	39,200 *	66.2	313.0	39,500										95
100	51.9	298.0	33,200 *	59.6	307.2	37,900 *	63.9	310.7	36,800										100
105	49.2	293.9	32,000 *	57.2	304.1	36,600 *	61.6	308.1	34,400										105
110	46.4	289.3	30,800 *	54.7	300.8	35,300 *	59.3	305.3	32,300										110
115	43.5	284.3	29,700 *	52.2	297.1	33,800	56.9	302.2	30,400										115
120	40.5	278.8	28,600 *	49.5	293.0	31,900	54.4	298.8	28,600	61.8	304.7	23,100							120
125	37.2	272.6	27,500 *	46.8	288.5	30,100	51.8	295.0	27,000	59.4	301.9	21,800							125
130	33.7	265.6	26,600 *	43.9	283.6	28,500	49.2	290.9	25,500	57.0	298.8	20,500							130
135	29.8	257.5	25,500 *	40.9	278.1	27,000	46.4	286.3	24,100	54.5	295.4	19,300							135
140	25.4	247.9	24,400 *	37.7	272.0	25,700	43.5	281.3	22,900	52.0	291.6	18,300							140
145	20.1	236.0	23,500 *	34.2	265.1	24,400	40.5	275.8	21,700	49.3	287.5	17,300	57.0	293.8	12,900				145
150	12.9	219.1	22,800 *	30.3	257.2	23,200	37.2	269.6	20,600	46.6	283.0	16,300	54.5	290.4	12,200				150
155				26.0	247.8	22,100	33.7	262.5	19,600	43.7	278.1	15,500	51.9	286.7	11,400				155
160				20.9	236.3	21,000	29.8	254.4	18,600	40.6	272.5	14,700	49.3	282.6	10,800				160
170							20.0	232.9	16,900	33.9	259.4	13,200	43.6	273.1	9,500	51.6	280.0	6,000	170
180										25.6	241.9	11,800	37.3	261.3	8,400	46.2	271.3	5,100	180
190										13.3	213.6	10,600	29.9	246.3	7,500	40.2	260.7	4,300	190
200													20.3	225.0	6,500				200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

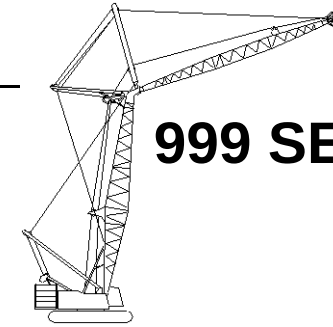
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	36,700										100
105	52.4	306.8	29,200 *	59.6	315.9	33,600 *	63.7	319.4	34,300										105
110	50.0	302.7	28,100 *	57.4	312.8	32,300 *	61.5	316.8	32,100										110
115	47.4	298.4	27,000 *	55.1	309.5	31,100 *	59.3	314.0	30,200										115
120	44.8	293.5	25,900 *	52.7	305.8	29,900 *	57.1	310.9	28,400										120
125	42.0	288.3	24,900 *	50.3	301.9	28,700 *	54.8	307.5	26,800	61.6	313.4	21,600							125
130	39.1	282.4	23,900 *	47.8	297.5	27,600 *	52.4	303.8	25,400	59.5	310.5	20,400							130
135	35.9	275.9	22,900 *	45.1	292.8	26,500 *	49.9	299.8	24,000	57.2	307.4	19,200							135
140	32.5	268.5	22,000 *	42.4	287.5	25,500 *	47.4	295.4	22,700	54.9	304.1	18,100							140
145	28.8	260.1	21,200 *	39.4	281.8	24,300	44.8	290.5	21,600	52.5	300.4	17,100							145
150	24.5	250.1	20,400 *	36.3	275.3	23,100	42.0	285.3	20,500	50.1	296.4	16,200	57.2	302.5	12,000				150
155	19.4	237.7	19,700 *	33.0	268.1	22,000	39.0	279.4	19,500	47.6	292.0	15,300	54.9	299.1	11,300				155
160	12.5	220.2	19,100 *	29.3	259.8	20,900	35.9	272.9	18,500	44.9	287.2	14,500	52.5	295.4	10,600				160
170				20.1	238.1	19,000	28.7	257.1	16,800	39.2	276.2	13,100	47.5	287.1	9,400				170
180							19.3	234.6	15,200	32.7	262.4	11,800	42.1	277.0	8,300	49.8	284.8	5,000	180
190										24.7	244.1	10,600	36.0	264.7	7,400	44.6	275.5	4,200	190
200										12.9	214.7	9,500	28.9	248.9	6,500				200
210													19.6	226.7	5,700				210

Liftcrane Luffing Jib Capacities

New York City Code

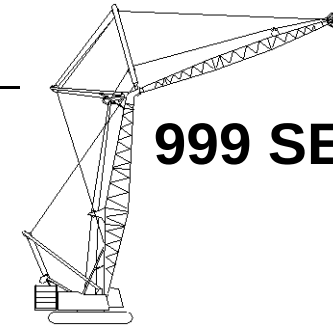
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	32,400 *							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	29,700 *							115
120	48.3	307.3	23,000 *	55.4	318.2	26,900 *	59.4	322.6	28,000 *							120
125	45.8	302.7	22,000 *	53.2	314.6	25,800 *	57.3	319.5	26,400 *							125
130	43.3	297.6	21,000 *	50.9	310.7	24,600 *	55.1	316.2	24,900 *	61.5	322.0	19,800 *				130
135	40.6	292.0	20,100 *	48.6	306.5	23,600 *	52.9	312.5	23,500 *	59.5	319.2	18,700 *				135
140	37.8	285.9	19,200 *	46.2	301.9	22,500 *	50.6	308.6	22,300 *	57.4	316.1	17,600 *				140
145	34.7	279.1	18,300 *	43.6	296.8	21,500 *	48.3	304.3	21,100 *	55.2	312.8	16,600 *				145
150	31.5	271.4	17,500 *	41.0	291.3	20,600 *	45.8	299.7	20,100 *	53.0	309.2	15,700 *				150
155	27.8	262.6	16,800 *	38.1	285.3	19,700 *	43.3	294.6	19,000 *	50.7	305.3	14,800 *	57.3	311.2	10,700 *	155
160	23.7	252.3	16,100 *	35.1	278.6	18,800 *	40.6	289.0	18,100 *	48.4	301.0	14,100 *	55.2	307.8	10,100 *	160
170	12.1	221.3	14,800 *	28.3	262.4	17,200 *	34.7	276.1	16,400 *	43.4	291.3	12,600 *	50.7	300.3	8,900 *	170
180				19.5	239.8	15,700 *	27.8	259.6	14,900 *	37.9	279.7	11,300 *	45.9	291.4	7,800 *	180
190							18.7	236.3	13,500 *	31.6	265.3	10,100 *	40.7	280.8	6,900 *	190
200										23.9	246.3	9,100 *	34.8	267.8	6,000 *	200
210										12.4	215.8	8,100 *	28.0	251.5	5,200 *	210
220													19.0	228.4	4,500 *	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

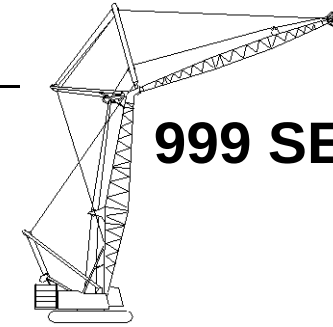
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	31,900 *										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	29,700 *							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	25,400 *							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	23,200	61.5	330.7	18,300				135
140	41.9	301.5	17,100 *	49.3	315.4	20,300 *	53.3	321.3	22,000	59.5	327.9	17,200				140
145	39.3	295.7	16,300 *	47.1	310.9	19,300 *	51.2	317.4	20,800	57.5	324.8	16,200				145
150	36.6	289.3	15,500 *	44.7	306.0	18,400 *	49.0	313.2	19,700	55.5	321.5	15,300				150
155	33.7	282.1	14,700 *	42.3	300.8	17,500 *	46.7	308.7	18,700	53.4	317.9	14,500				155
160	30.5	274.2	14,000 *	39.7	295.0	16,700 *	44.4	303.8	17,800	51.3	314.1	13,700	57.5	319.8	9,700	160
170	23.0	254.3	12,500 *	34.1	281.7	15,100 *	39.3	292.6	16,100	46.9	305.4	12,200	53.4	313.0	8,500	170
180	11.7	222.3	11,000 *	27.5	264.9	13,600 *	33.6	279.1	14,600	42.0	295.2	11,000	49.1	304.9	7,400	180
190				18.9	241.5	11,900 *	27.0	262.0	13,200	36.7	283.0	9,800	44.5	295.5	6,500	190
200							18.2	237.9	11,900 *	30.7	268.0	8,800	39.4	284.4	5,600	200
210										23.2	248.4	7,800	33.8	270.9	4,900	210
220										12.1	216.9	6,900	27.1	253.9	4,200	220

Liftcrane Luffing Jib Capacities

New York City Code

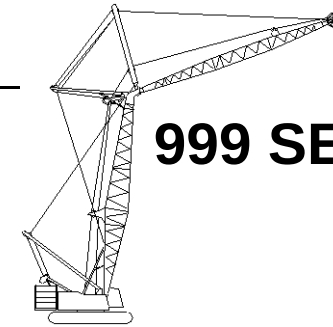
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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 Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	58.9	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	74,400 b																65
70	36.7	239.7	65,800 *	55.5	254.1	67,600 b																70
75	29.2	232.0	62,000 *	50.4	250.3	61,900 b	60.2	255.5	56,500 b													75
80	19.2	220.9	57,500 *	44.9	245.8	57,000	55.4	252.4	52,000 b													80
85				38.7	240.2	52,700	50.2	248.6	48,000 b													85
90				31.6	233.1	48,900	44.7	244.0	44,600	61.3	252.4	37,300 b										90
95				22.6	223.3	45,600	38.5	238.4	41,500	56.5	249.4	34,700 b										95
100				6.0	203.7	42,400	31.3	231.2	38,800	51.4	245.7	32,400 b										100
105							22.2	221.3	36,300	46.0	241.3	30,300										105
110							4.4	200.2	33,900	40.0	236.0	28,500	57.2	244.7	22,800 b							110
115										33.1	229.2	26,700	52.2	241.2	21,400 b							115
120										24.6	220.1	25,100	46.8	236.9	20,100							120
125										11.3	204.7	23,600	40.9	231.7	18,900							125
130													34.2	225.2	17,800	52.4	234.8	13,200 b				130
135													26.0	216.6	16,700	47.1	230.6	12,400				135
140													14.1	202.9	15,700	41.2	225.4	11,600				140
145																34.5	219.0	10,900				145
150																26.5	210.5	10,200	46.7	222.4	6,500	150
155																14.8	197.3	9,500	40.7	217.2	6,000	155
160																			34.0	210.6	5,600	160
170																			13.6	187.9	4,600	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

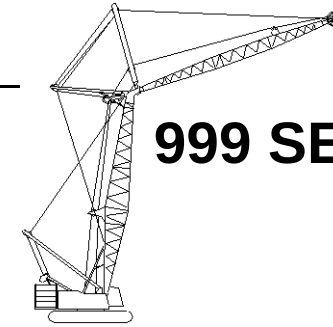
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	73,900 b													65
70	45.5	254.9	62,700 *	60.3	265.9	67,200 b													70
75	40.2	249.5	58,800 *	56.1	262.8	61,500 b	64.2	266.8	55,900 b										75
80	34.3	242.9	55,200 *	51.7	259.1	56,600	60.2	264.2	51,400 b										80
85	27.3	234.5	52,200 *	46.9	254.8	52,300	56.0	261.1	47,500 b										85
90	17.9	222.5	49,500 *	41.8	249.7	48,600	51.5	257.4	44,100										90
95				36.1	243.6	45,300	46.8	253.1	41,100	61.1	261.1	34,100 b							95
100				29.5	235.8	42,300	41.6	247.9	38,400	56.9	258.1	31,900 b							100
105				21.1	225.2	39,600	35.9	241.7	36,000	52.5	254.5	29,800							105
110				5.6	204.3	37,100	29.3	233.9	33,800	47.9	250.4	27,900							110
115							20.8	223.2	31,700	42.8	245.4	26,300	57.6	253.4	20,800 b				115
120							4.1	200.6	29,800	37.3	239.5	24,700	53.2	249.9	19,500				120
125										30.9	232.1	23,300	48.6	245.9	18,300				125
130										23.0	222.2	21,900	43.6	241.0	17,200				130
135										10.5	205.6	20,600	38.2	235.3	16,200				135
140													31.9	228.1	15,300	48.8	239.5	11,000	140
145													24.3	218.8	14,400	43.9	234.8	10,300	145
150													13.2	204.0	13,500	38.4	229.0	9,700	150
155																32.2	222.0	9,100	155
160																24.7	212.8	8,500	160

Liftcrane Luffing Jib Capacities

New York City Code

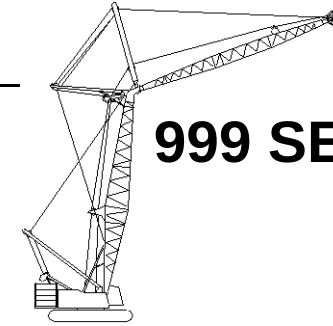
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	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	73,400 *b													65
70	51.4	268.2	59,700 *	63.9	277.2	66,800 b													70
75	47.2	263.9	56,200 *	60.3	274.5	61,200 b	67.3	277.8	55,600 b										75
80	42.7	258.9	52,900 *	56.5	271.5	56,300	63.8	275.5	51,100 b										80
85	37.8	253.0	49,800 *	52.6	267.9	52,100	60.2	272.9	47,200 b										85
90	32.2	245.9	46,900 *	48.5	263.8	48,400	56.4	269.8	43,800										90
95	25.7	236.9	44,500 *	44.1	259.0	45,100	52.5	266.2	40,800										95
100	16.9	224.0	42,300 *	39.3	253.4	42,200	48.4	262.1	38,100	61.0	269.7	31,500 b							100
105				34.0	246.7	39,500	44.0	257.3	35,700	57.3	266.7	29,500							105
110				27.8	238.4	37,100	39.2	251.6	33,600	53.4	263.3	27,600							110
115				19.9	227.1	34,900	33.8	244.9	31,600	49.3	259.3	25,900							115
120				5.3	204.7	32,800	27.6	236.4	29,800	45.0	254.6	24,400	57.8	262.0	19,100				120
125							19.6	225.0	28,100	40.3	249.2	23,000	54.0	258.7	18,000				125
130							3.9	200.9	26,400	35.1	242.7	21,700	50.0	254.7	16,900				130
135										29.1	234.8	20,500	45.7	250.2	15,900				135
140										21.6	224.2	19,400	41.0	244.9	15,000				140
145										9.9	206.5	18,300	35.9	238.6	14,100	50.2	248.4	10,000	145
150													30.1	230.9	13,300	45.9	243.9	9,300	150
155													22.9	220.9	12,600	41.3	238.7	8,700	155
160													12.4	205.2	11,800	36.2	232.4	8,200	160
170																23.3	214.9	7,100	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

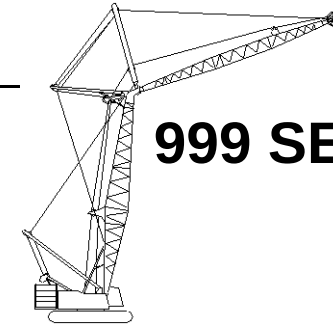
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	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	66,300 b													70
75	52.3	277.0	53,500 *	63.5	285.9	60,700													75
80	48.6	272.9	50,500 *	60.3	283.2	55,800	66.6	286.5	50,500 b										80
85	44.7	268.2	47,700 *	56.9	280.1	51,600	63.4	284.2	46,700										85
90	40.4	262.7	45,100 *	53.4	276.7	47,900	60.1	281.5	43,300										90
95	35.8	256.4	42,600 *	49.8	272.7	44,700	56.8	278.4	40,300										95
100	30.5	248.7	40,200 *	45.9	268.2	41,700	53.3	274.9	37,700										100
105	24.3	239.1	38,100 *	41.7	263.0	39,100	49.6	271.0	35,300	60.9	278.4	28,900							105
110	16.0	225.5	36,500 *	37.2	256.9	36,800	45.7	266.4	33,100	57.6	275.4	27,000							110
115				32.2	249.7	34,600	41.6	261.2	31,200	54.1	272.0	25,400							115
120				26.3	240.8	32,700	37.1	255.1	29,400	50.5	268.1	23,900							120
125				18.9	228.8	30,900	32.0	247.8	27,700	46.6	263.7	22,500							125
130				5.1	205.2	29,100	26.1	238.8	26,200	42.6	258.7	21,200	54.6	267.4	16,300				130
135							18.6	226.6	24,800	38.1	252.8	20,100	51.0	263.6	15,300				135
140							3.7	201.3	23,400	33.2	245.8	19,000	47.2	259.3	14,400				140
145										27.6	237.3	17,900	43.2	254.3	13,600				145
150										20.5	226.1	17,000	38.8	248.5	12,800	51.2	257.2	8,700	150
155										9.4	207.4	16,000	34.0	241.8	12,100	47.4	252.9	8,200	155
160													28.5	233.5	11,400	43.4	248.0	7,600	160
170													11.8	206.2	10,000	34.2	235.6	6,600	170
180																22.1	216.9	5,700	180

Liftcrane Luffing Jib Capacities

New York City Code

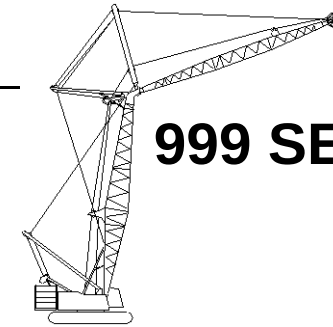
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	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	51,500	66.0	295.3	46,600										85
90	46.2	277.3	42,700 *	57.2	288.8	47,900	63.1	292.9	43,200										90
95	42.5	272.2	40,500 *	54.0	285.4	44,600	60.1	290.2	40,200										95
100	38.5	266.3	38,400 *	50.7	281.6	41,700	57.1	287.1	37,600										100
105	34.1	259.5	36,500 *	47.3	277.2	39,100	53.9	283.7	35,200										105
110	29.1	251.4	34,700 *	43.6	272.3	36,800	50.6	279.8	33,100	60.8	287.0	27,000							110
115	23.2	241.2	33,100 *	39.7	266.7	34,600	47.2	275.5	31,100	57.8	284.1	25,300							115
120	15.3	226.8	31,900 *	35.4	260.2	32,700	43.5	270.5	29,400	54.6	280.7	23,800							120
125				30.7	252.5	30,900	39.6	264.9	27,700	51.4	277.0	22,500							125
130				25.1	243.0	29,300	35.3	258.3	26,300	48.0	272.7	21,200							130
135				18.0	230.4	27,700	30.5	250.6	24,900	44.4	267.9	20,000	55.1	276.1	15,300				135
140				4.8	205.6	26,200	24.9	241.1	23,600	40.5	262.4	19,000	51.9	272.4	14,400				140
145							17.7	228.2	22,400	36.3	256.1	18,000	48.5	268.2	13,600				145
150							3.5	201.6	21,100	31.6	248.7	17,000	44.9	263.5	12,800				150
155										26.3	239.7	16,100	41.1	258.1	12,100	52.0	266.0	8,100	155
160										19.6	227.8	15,300	37.0	252.0	11,400	48.7	261.9	7,600	160
170													27.1	236.0	10,200	41.3	251.9	6,600	170
180													11.2	207.2	9,000	32.6	238.6	5,700	180
190																21.0	218.8	4,900	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

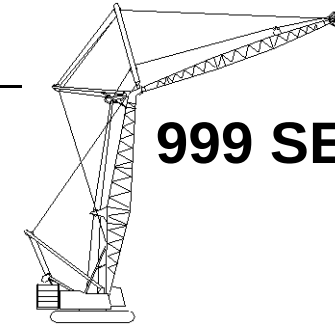
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	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	49,800 *													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	47,400	65.5	304.0	42,700										90
95	47.5	286.3	38,700 *	57.4	297.5	44,200	62.8	301.6	39,700										95
100	44.1	281.4	36,800 *	54.5	294.1	41,300	60.1	298.8	37,100										100
105	40.6	276.0	35,000 *	51.6	290.4	38,700	57.3	295.8	34,700										105
110	36.8	269.7	33,300 *	48.4	286.2	36,400	54.4	292.4	32,600										110
115	32.6	262.5	31,800 *	45.2	281.5	34,200	51.4	288.6	30,700	60.7	295.7	24,800							115
120	27.8	253.9	30,300 *	41.7	276.2	32,300	48.3	284.4	28,900	58.0	292.7	23,300							120
125	22.2	243.2	29,000 *	38.0	270.2	30,600	45.0	279.7	27,300	55.1	289.4	21,900							125
130	14.6	228.1	28,000 *	33.9	263.3	28,900	41.6	274.4	25,800	52.1	285.8	20,700							130
135				29.3	255.2	27,400	37.8	268.4	24,500	49.0	281.6	19,500							135
140				24.0	245.2	26,000	33.7	261.4	23,200	45.8	277.1	18,500	55.5	284.8	13,800				140
145				17.2	231.9	24,700	29.2	253.3	22,000	42.4	271.9	17,500	52.6	281.2	13,000				145
150				4.6	206.0	23,400	23.8	243.2	20,900	38.7	266.0	16,500	49.5	277.1	12,200				150
155							16.9	229.8	19,800	34.7	259.3	15,700	46.3	272.6	11,500				155
160							3.4	201.9	18,800	30.3	251.5	14,900	42.9	267.5	10,900	52.7	274.8	7,000	160
170										18.7	229.5	13,300	35.3	255.2	9,700	46.5	266.3	6,000	170
180													25.9	238.4	8,600	39.4	255.6	5,200	180
190													10.7	208.2	7,500	31.2	241.4	4,400	190

Liftcrane Luffing Jib Capacities

New York City Code

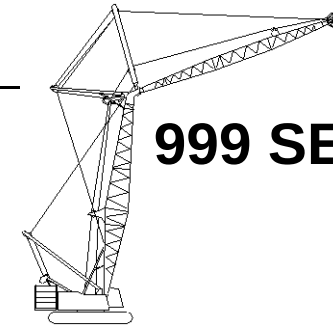
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	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	46,900 *													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	45,600 *													85
90	54.2	303.3	38,600 *	62.7	311.9	44,300 *	67.5	314.9	42,300										90
95	51.4	299.5	36,900 *	60.2	309.2	43,000 *	65.1	312.7	39,300										95
100	48.5	295.3	35,300 *	57.6	306.2	40,900	62.6	310.2	36,700										100
105	45.5	290.6	33,700 *	55.0	302.8	38,400	60.1	307.5	34,400										105
110	42.3	285.4	32,100 *	52.2	299.2	36,000	57.5	304.5	32,200										110
115	38.9	279.6	30,600 *	49.4	295.1	33,900	54.9	301.1	30,300										115
120	35.3	273.0	29,200 *	46.4	290.6	32,000	52.1	297.4	28,600	60.7	304.4	22,900							120
125	31.3	265.3	27,900 *	43.3	285.5	30,300	49.3	293.3	27,000	58.1	301.4	21,500							125
130	26.7	256.3	26,700 *	40.0	279.9	28,700	46.3	288.8	25,500	55.5	298.1	20,300							130
135	21.3	245.1	25,600 *	36.4	273.6	27,200	43.2	283.8	24,100	52.8	294.5	19,200							135
140	14.0	229.4	24,900 *	32.5	266.3	25,800	39.9	278.1	22,900	49.9	290.5	18,100							140
145				28.2	257.7	24,500	36.3	271.7	21,700	47.0	286.1	17,100	55.9	293.5	12,600				145
150				23.1	247.3	23,300	32.4	264.4	20,600	43.9	281.2	16,200	53.2	289.9	11,900				150
155				16.6	233.4	22,200	28.0	255.8	19,600	40.6	275.7	15,400	50.4	286.0	11,200				155
160				4.4	206.4	21,000	22.9	245.3	18,700	37.1	269.5	14,600	47.5	281.6	10,500				160
170							3.2	202.2	16,800	29.0	254.1	13,100	41.1	271.4	9,300	50.5	279.7	5,600	170
180										18.0	231.1	11,800	33.9	258.3	8,200	44.5	270.5	4,800	180
190													24.9	240.6	7,300	37.8	259.1	4,000	190
200													10.3	209.1	6,300				200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

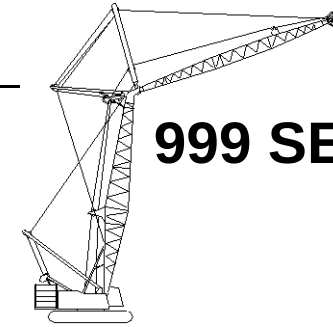
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	41,900 *										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	38,800							95
100	52.0	308.3	33,200 *	60.2	317.8	38,000 *	64.7	321.4	36,200							100
105	49.4	304.2	32,000 *	57.8	314.8	36,800 *	62.4	318.9	33,900							105
110	46.6	299.7	30,700 *	55.3	311.5	35,500 *	60.1	316.2	31,700							110
115	43.8	294.7	29,400 *	52.8	307.9	33,500	57.7	313.1	29,800							115
120	40.7	289.2	28,100 *	50.2	303.9	31,600	55.3	309.8	28,100	63.0	315.7	22,300				120
125	37.5	283.0	26,900 *	47.5	299.6	29,800	52.7	306.2	26,500	60.6	313.0	21,000				125
130	34.0	276.1	25,800 *	44.6	294.8	28,200	50.1	302.2	25,000	58.3	310.1	19,800				130
135	30.1	268.1	24,700 *	41.6	289.4	26,800	47.4	297.8	23,700	55.8	306.8	18,600				135
140	25.7	258.7	23,700 *	38.5	283.5	25,400	44.5	293.0	22,400	53.3	303.3	17,600				140
145	20.5	246.9	22,800 *	35.0	276.8	24,100	41.5	287.6	21,300	50.7	299.4	16,600				145
150	13.5	230.6	22,200 *	31.3	269.1	22,900	38.4	281.7	20,200	48.0	295.1	15,700	56.2	302.2	11,300	150
155				27.1	260.2	21,800	34.9	274.9	19,200	45.2	290.4	14,900	53.7	298.7	10,600	155
160				22.2	249.3	20,800	31.2	267.2	18,300	42.2	285.1	14,100	51.1	294.8	9,900	160
170				4.3	206.8	18,800	22.0	247.3	16,500	35.7	272.8	12,600	45.6	285.9	8,800	170
180							3.1	202.4	14,900	28.0	256.7	11,300	39.6	275.0	7,700	180
190										17.3	232.7	10,100	32.6	261.3	6,800	190
200													24.0	242.8	5,900	200
210													9.9	210.0	5,100	210

Liftcrane Luffing Jib Capacities

New York City Code

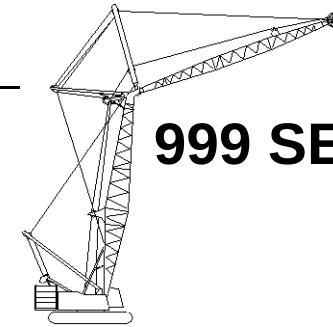
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	36,000							100
105	52.6	317.0	29,200 *	60.2	326.5	33,700 *	64.4	330.1	33,700							105
110	50.1	313.0	28,100 *	57.9	323.5	32,500 *	62.3	327.6	31,600							110
115	47.6	308.7	27,000 *	55.7	320.2	31,300 *	60.1	324.8	29,700							115
120	45.0	303.9	25,900 *	53.3	316.7	30,200 *	57.9	321.8	27,900							120
125	42.2	298.6	24,900 *	50.9	312.8	29,000 *	55.6	318.5	26,400	62.8	324.4	20,800				125
130	39.3	292.8	23,900 *	48.4	308.5	27,900 *	53.2	314.9	24,900	60.6	321.7	19,600				130
135	36.2	286.4	23,000 *	45.8	303.9	26,600	50.8	311.0	23,600	58.4	318.7	18,500				135
140	32.8	279.1	22,100 *	43.1	298.8	25,300	48.3	306.8	22,300	56.1	315.5	17,400				140
145	29.1	270.7	21,300 *	40.2	293.1	24,000	45.7	302.1	21,200	53.8	312.0	16,500				145
150	24.8	260.9	20,500 *	37.1	286.9	22,800	43.0	297.0	20,100	51.4	308.2	15,600				150
155	19.8	248.7	19,800 *	33.8	279.9	21,700	40.1	291.3	19,100	48.9	304.0	14,700	56.4	310.9	10,400	155
160	13.1	231.8	19,200 *	30.2	271.9	20,700	37.0	285.1	18,200	46.3	299.4	13,900	54.1	307.4	9,800	160
170				21.4	251.2	18,800	30.1	270.0	16,500	40.7	288.9	12,500	49.3	299.5	8,600	170
180				4.1	207.2	17,000	21.3	249.2	14,900	34.5	275.9	11,200	44.0	290.0	7,600	180
190							3.0	202.7	13,400	27.0	259.1	10,100	38.2	278.6	6,700	190
200										16.7	234.2	9,000	31.5	264.2	5,800	200
210													23.2	244.9	5,100	210
220													9.6	210.8	4,300	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

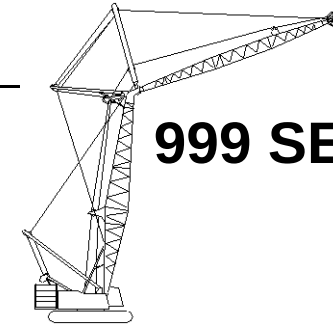
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	31,700 *										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	31,100							110
115	50.8	321.9	24,100 *	58.1	332.2	28,300 *	62.1	336.2	29,200							115
120	48.5	317.6	23,100 *	55.9	328.9	27,100 *	60.1	333.5	27,500							120
125	46.0	313.0	22,100 *	53.7	325.4	26,000 *	58.0	330.5	25,900							125
130	43.5	307.9	21,100 *	51.5	321.6	24,900 *	55.9	327.2	24,400	62.6	333.1	19,100				130
135	40.8	302.4	20,200 *	49.2	317.4	23,900 *	53.7	323.7	23,100	60.6	330.3	17,900				135
140	38.0	296.3	19,300 *	46.8	312.9	22,800 *	51.4	319.9	21,900	58.5	327.4	16,900				140
145	35.0	289.6	18,400 *	44.2	308.0	21,800 *	49.1	315.7	20,700	56.4	324.2	15,900				145
150	31.7	282.0	17,600 *	41.6	302.6	20,900 *	46.7	311.2	19,700	54.2	320.7	15,000				150
155	28.1	273.3	16,900 *	38.8	296.7	19,900 *	44.2	306.3	18,700	51.9	317.0	14,200				155
160	24.0	263.1	16,100 *	35.9	290.2	19,100 *	41.5	300.9	17,700	49.6	312.9	13,400	56.7	319.5	9,200	160
170	12.6	232.9	14,900 *	29.2	274.5	17,400 *	35.8	288.4	16,000	44.7	303.6	12,000	52.3	312.4	8,100	170
180				20.8	253.1	16,000 *	29.1	272.6	14,500	39.4	292.6	10,800	47.6	304.0	7,100	180
190				4.0	207.5	14,800 *	20.6	251.0	13,200	33.4	279.0	9,600	42.5	294.0	6,200	190
200							2.9	203.0	11,800	26.1	261.5	8,600	36.9	282.0	5,300	200
210										16.2	235.6	7,700	30.5	267.0	4,600	210

Liftcrane Luffing Jib Capacities

New York City Code

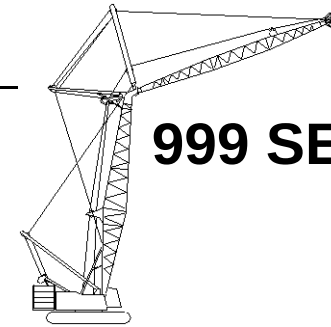
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	30,900 *										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	29,100 *							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	25,500							125
130	46.9	322.0	19,000 *	54.1	334.1	22,600 *	58.1	339.1	24,100							130
135	44.6	317.2	18,100 *	52.0	330.4	21,600 *	56.1	335.9	22,700	62.4	341.7	17,500				135
140	42.1	311.9	17,200 *	49.9	326.3	20,600 *	54.1	332.4	21,500	60.5	339.0	16,500				140
145	39.5	306.1	16,400 *	47.6	321.9	19,600 *	51.9	328.7	20,400	58.6	336.1	15,600				145
150	36.8	299.7	15,600 *	45.3	317.2	18,700 *	49.8	324.6	19,300	56.6	332.9	14,700				150
155	33.9	292.7	14,800 *	42.9	312.0	17,800 *	47.5	320.2	18,300	54.5	329.5	13,800				155
160	30.7	284.8	14,100 *	40.3	306.4	16,900 *	45.2	315.4	17,400	52.4	325.8	13,100				160
170	23.3	265.2	12,700 *	34.8	293.4	15,300 *	40.2	304.6	15,700	48.0	317.4	11,700	54.8	324.8	7,700	170
180	12.3	234.0	11,100 *	28.3	277.1	13,800 *	34.7	291.5	14,200	43.3	307.7	10,400	50.6	317.2	6,700	180
190				20.1	254.9	12,200 *	28.2	275.2	12,900	38.2	296.1	9,300	46.1	308.3	5,800	190
200				3.9	207.9	10,700 *	20.0	252.8	11,700	32.3	281.9	8,300	41.2	297.8	5,000	200
210							2.8	203.2	10,500	25.3	263.8	7,400	35.8	285.3	4,200	210
220										15.7	237.0	6,500				220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

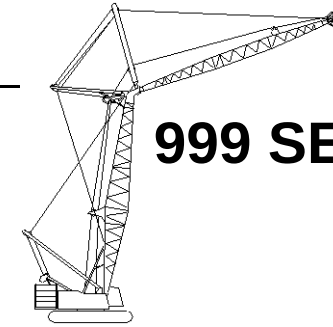
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	55,100 *	67.6	297.1	49,800 b										80
85	45.0	278.5	45,000 *	57.7	290.9	51,100	64.5	294.9	45,900 b										85
90	40.7	273.1	42,700 *	54.3	287.5	47,500	61.3	292.3	42,600										90
95	36.1	266.8	40,500 *	50.7	283.6	44,200	58.0	289.4	39,700										95
100	30.9	259.3	38,400 *	46.8	279.3	41,300	54.5	286.1	37,000										100
105	24.8	249.8	36,600 *	42.8	274.2	38,800	50.9	282.3	34,700	62.6	289.4	28,000							105
110	16.7	236.6	35,200 *	38.4	268.4	36,400	47.1	277.9	32,600	59.3	286.7	26,200							110
115				33.5	261.5	34,300	43.1	272.9	30,600	55.9	283.5	24,600							115
120				27.9	253.1	32,400	38.7	267.1	28,900	52.4	279.9	23,100							120
125				20.9	242.1	30,500	33.8	260.3	27,300	48.7	275.7	21,800							125
130				10.3	224.2	28,800	28.3	252.0	25,800	44.7	271.0	20,500	57.0	279.1	15,400				130
135							21.5	241.3	24,400	40.5	265.6	19,400	53.5	275.6	14,400				135
140							11.3	224.3	23,000	35.8	259.2	18,300	49.8	271.7	13,600				140
145										30.6	251.6	17,300	46.0	267.2	12,800				145
150										24.4	242.0	16,400	41.9	262.0	12,000				150
155										16.1	228.5	15,500	37.4	255.9	11,300	50.6	265.7	7,200	155
160													32.3	248.7	10,700	46.8	261.3	6,700	160
170													19.1	228.0	9,400	38.3	250.4	5,800	170
180																27.8	235.1	4,900	180
190																10.1	206.0	4,000	190

Liftcrane Luffing Jib Capacities

New York City Code

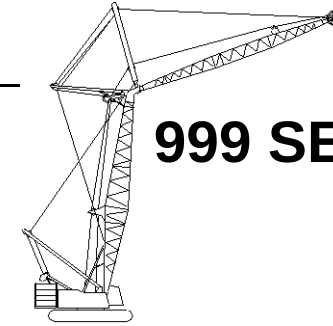
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	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	51,000	67.0	305.9	45,900 b										85
90	46.5	287.6	41,000 *	57.9	299.5	47,400	64.1	303.6	42,500										90
95	42.8	282.5	39,000 *	54.8	296.2	44,200	61.2	301.0	39,600										95
100	38.8	276.7	37,000 *	51.6	292.5	41,300	58.1	298.1	37,000										100
105	34.4	270.0	35,300 *	48.1	288.2	38,700	55.0	294.8	34,600										105
110	29.5	262.0	33,600 *	44.5	283.5	36,400	51.8	291.1	32,500	62.3	298.1	26,100							110
115	23.6	252.0	32,100 *	40.7	278.0	34,300	48.4	286.9	30,600	59.4	295.3	24,500							115
120	15.9	238.1	31,000 *	36.5	271.8	32,400	44.8	282.1	28,900	56.3	292.2	23,100							120
125				31.9	264.4	30,600	41.0	276.8	27,300	53.1	288.6	21,700							125
130				26.6	255.5	29,000	36.8	270.6	25,800	49.8	284.6	20,500							130
135				20.0	243.9	27,500	32.2	263.3	24,400	46.3	280.1	19,400	57.3	287.8	14,400				135
140				9.8	225.0	26,000	26.9	254.5	23,200	42.5	275.0	18,300	54.1	284.4	13,500				140
145							20.5	243.1	22,000	38.5	269.2	17,300	50.8	280.5	12,700				145
150							10.8	225.2	20,800	34.1	262.4	16,400	47.4	276.2	12,000				150
155										29.2	254.3	15,600	43.7	271.3	11,300				155
160										23.3	244.1	14,800	39.8	265.7	10,700	51.5	274.5	6,600	160
170													30.8	251.6	9,500	44.5	265.5	5,700	170
180													18.2	229.6	8,400	36.5	253.8	4,900	180
190																26.5	237.5	4,100	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

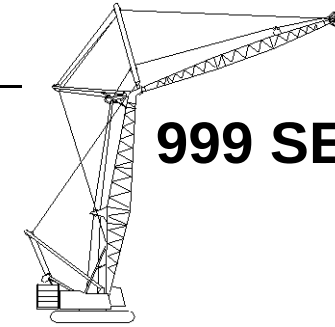
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	49,300 *													75
80	56.8	308.2	42,800 *	66.2	316.1	48,800 *													80
85	53.9	304.8	40,900 *	63.6	313.8	48,300 *													85
90	50.8	300.9	39,100 *	60.9	311.1	46,900	66.4	314.6	42,000										90
95	47.7	296.6	37,300 *	58.1	308.2	43,700	63.8	312.3	39,100										95
100	44.4	291.8	35,500 *	55.3	304.9	40,800	61.1	309.7	36,500										100
105	40.8	286.4	33,800 *	52.3	301.2	38,300	58.3	306.7	34,100										105
110	37.1	280.2	32,300 *	49.2	297.2	36,000	55.5	303.5	32,000										110
115	32.9	273.0	30,800 *	46.0	292.6	33,900	52.5	299.8	30,100	62.1	306.8	23,900							115
120	28.2	264.5	29,400 *	42.6	287.5	32,000	49.4	295.8	28,400	59.4	304.0	22,500							120
125	22.6	254.0	28,200 *	38.9	281.7	30,200	46.2	291.3	26,800	56.6	300.9	21,200							125
130	15.3	239.4	27,300 *	34.9	275.0	28,600	42.8	286.2	25,400	53.7	297.4	20,000							130
135				30.5	267.2	27,100	39.2	280.4	24,000	50.7	293.5	18,800							135
140				25.4	257.8	25,700	35.2	273.8	22,800	47.5	289.2	17,800	57.5	296.4	12,900				140
145				19.1	245.6	24,400	30.8	266.1	21,600	44.2	284.3	16,800	54.6	293.1	12,100				145
150				9.4	225.9	23,200	25.8	256.8	20,500	40.6	278.8	15,900	51.6	289.3	11,400				150
155							19.6	244.9	19,500	36.8	272.6	15,100	48.5	285.1	10,700				155
160							10.3	226.2	18,500	32.6	265.4	14,300	45.3	280.5	10,100				160
170										22.3	246.1	12,800	38.1	269.2	9,000	49.2	279.2	5,100	170
180													29.5	254.3	7,900	42.5	269.5	4,300	180
190													17.4	231.2	6,900				190

Liftcrane Luffing Jib Capacities

New York City Code

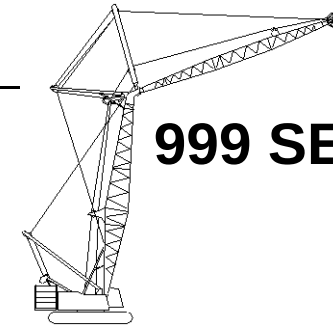
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	38,700							95
100	48.7	305.6	34,000 *	58.3	316.9	40,500	63.5	321.0	36,100							100
105	45.7	300.9	32,500 *	55.6	313.6	38,000	61.0	318.3	33,800							105
110	42.5	295.8	31,000 *	52.9	310.0	35,700	58.4	315.4	31,700							110
115	39.2	290.0	29,600 *	50.1	306.0	33,600	55.8	312.2	29,800							115
120	35.5	283.4	28,300 *	47.2	301.6	31,700	53.1	308.6	28,100	62.0	315.4	22,100				120
125	31.6	275.9	27,100 *	44.1	296.7	29,900	50.3	304.6	26,500	59.5	312.6	20,800				125
130	27.1	267.0	26,000 *	40.8	291.3	28,300	47.4	300.3	25,000	56.9	309.5	19,600				130
135	21.7	256.0	25,000 *	37.3	285.1	26,900	44.3	295.4	23,700	54.2	306.1	18,500				135
140	14.7	240.8	24,200 *	33.5	278.1	25,500	41.0	290.0	22,500	51.4	302.3	17,400				140
145				29.3	269.9	24,200	37.6	283.9	21,300	48.5	298.1	16,500	57.7	305.1	11,700	145
150				24.4	260.0	23,000	33.8	276.9	20,200	45.5	293.4	15,600	55.0	301.8	11,000	150
155				18.3	247.2	21,900	29.6	268.8	19,200	42.4	288.3	14,800	52.3	298.1	10,400	155
160				9.0	226.7	20,800	24.8	259.1	18,300	39.0	282.4	14,000	49.5	294.0	9,700	160
170							9.9	227.0	16,500	31.3	268.2	12,600	43.4	284.5	8,600	170
180										21.4	248.0	11,300	36.5	272.6	7,600	180
190													28.3	256.8	6,700	190
200													16.8	232.7	5,800	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

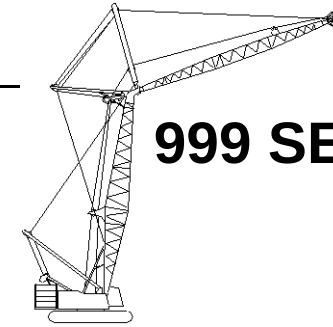
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	38,100							95
100	52.2	318.5	32,300 *	60.8	328.5	38,100 *	65.5	332.0	35,600							100
105	49.6	314.5	31,000 *	58.4	325.5	36,800 *	63.2	329.6	33,200							105
110	46.8	310.0	29,700 *	55.9	322.3	35,200	60.9	327.0	31,200							110
115	44.0	305.1	28,500 *	53.4	318.8	33,100	58.5	324.1	29,300							115
120	40.9	299.6	27,300 *	50.8	314.9	31,200	56.1	320.9	27,600							120
125	37.7	293.5	26,100 *	48.2	310.6	29,500	53.6	317.3	26,000	61.8	324.1	20,200				125
130	34.2	286.6	25,000 *	45.3	305.9	27,900	51.0	313.5	24,600	59.5	321.3	19,000				130
135	30.4	278.7	24,000 *	42.4	300.7	26,400	48.3	309.2	23,200	57.1	318.2	17,900				135
140	26.1	269.4	23,100 *	39.3	294.9	25,100	45.5	304.6	22,000	54.6	314.8	16,900				140
145	20.9	257.9	22,200 *	35.9	288.4	23,800	42.6	299.4	20,900	52.1	311.1	16,000				145
150	14.1	242.0	21,600 *	32.3	281.0	22,700	39.5	293.7	19,800	49.4	307.0	15,100	57.9	313.8	10,400	150
155				28.2	272.4	21,600	36.1	287.2	18,800	46.7	302.5	14,300	55.4	310.5	9,800	155
160				23.5	262.1	20,500	32.5	279.9	17,900	43.8	297.6	13,500	52.9	306.9	9,200	160
170				8.7	227.5	18,600	23.8	261.2	16,200	37.5	285.9	12,100	47.6	298.5	8,000	170
180							9.6	227.9	14,600	30.1	271.0	10,800	41.7	288.4	7,000	180
190										20.6	249.9	9,700	35.1	275.8	6,100	190
200													27.2	259.3	5,300	200
210													16.1	234.2	4,500	210

Liftcrane Luffing Jib Capacities

New York City Code

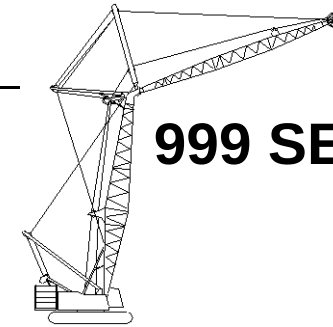
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	35,400							100
105	52.8	327.3	29,200 *	60.7	337.1	33,800 *	65.1	340.7	33,100							105
110	50.3	323.3	28,100 *	58.5	334.2	32,700 *	63.0	338.3	31,000							110
115	47.8	319.0	27,000 *	56.2	331.0	31,500 *	60.9	335.6	29,100							115
120	45.2	314.2	26,000 *	53.9	327.5	30,400 *	58.6	332.7	27,400							120
125	42.4	309.0	25,000 *	51.5	323.7	29,200 *	56.4	329.5	25,900							125
130	39.5	303.2	24,000 *	49.0	319.5	27,800	54.1	326.1	24,400	61.7	332.8	18,900				130
135	36.4	296.8	23,100 *	46.4	315.0	26,300	51.7	322.3	23,100	59.5	330.0	17,800				135
140	33.0	289.6	22,200 *	43.7	310.0	25,000	49.2	318.2	21,900	57.3	326.9	16,800				140
145	29.3	281.3	21,400 *	40.9	304.5	23,700	46.6	313.6	20,700	55.0	323.5	15,800				145
150	25.2	271.6	20,600 *	37.9	298.4	22,600	43.9	308.7	19,700	52.6	319.9	14,900				150
155	20.2	259.7	19,900 *	34.7	291.6	21,500	41.1	303.2	18,700	50.2	315.9	14,100	58.0	322.4	9,600	155
160	13.6	243.2	19,300 *	31.1	283.9	20,500	38.1	297.2	17,800	47.6	311.5	13,400	55.7	319.2	9,000	160
170				22.7	264.2	18,600	31.4	282.8	16,100	42.2	301.5	12,000	51.0	311.7	7,900	170
180				8.4	228.2	16,900	23.0	263.3	14,600	36.2	289.2	10,700	45.8	302.9	6,900	180
190							9.2	228.7	13,200	29.1	273.6	9,600	40.3	292.2	6,000	190
200										19.9	251.7	8,600	33.9	278.9	5,200	200
210													26.3	261.7	4,500	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

New York City Code

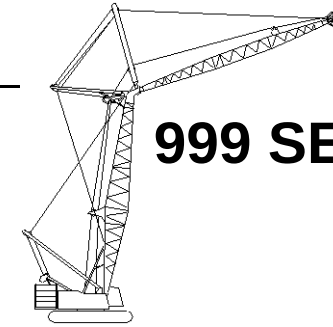
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Point 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	34,400 *										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	30,500							110
115	51.0	332.1	24,200 *	58.6	342.9	28,500 *	62.8	347.0	28,600							115
120	48.6	327.9	23,200 *	56.5	339.7	27,300 *	60.8	344.3	26,900							120
125	46.2	323.3	22,200 *	54.3	336.2	26,200 *	58.7	341.4	25,400							125
130	43.6	318.3	21,200 *	52.1	332.5	25,200 *	56.6	338.2	23,900							130
135	41.0	312.8	20,300 *	49.7	328.4	24,100 *	54.4	334.8	22,600	61.6	341.4	17,200				135
140	38.2	306.8	19,400 *	47.4	324.0	23,100 *	52.2	331.1	21,400	59.6	338.6	16,200				140
145	35.2	300.1	18,500 *	44.9	319.2	22,100 *	49.9	327.0	20,300	57.5	335.6	15,300				145
150	31.9	292.5	17,700 *	42.3	313.9	21,100 *	47.5	322.6	19,200	55.3	332.2	14,400				150
155	28.4	283.9	17,000 *	39.5	308.2	20,200 *	45.0	317.9	18,300	53.1	328.6	13,600				155
160	24.3	273.8	16,200 *	36.6	301.8	19,300 *	42.5	312.6	17,300	50.8	324.7	12,800				160
170	13.2	244.4	15,000 *	30.1	286.6	17,700 *	36.8	300.6	15,700	46.0	315.8	11,500	53.8	324.4	7,300	170
180				22.0	266.1	16,200 *	30.4	285.5	14,200	40.8	305.3	10,200	49.2	316.4	6,400	180
190				8.1	228.9	15,000 *	22.3	265.3	12,900	35.0	292.4	9,200	44.3	307.0	5,500	190
200							8.9	229.5	11,600	28.2	276.2	8,200	38.9	295.8	4,700	200
210										19.2	253.4	7,200	32.8	281.9	4,000	210

Liftcrane Luffing Jib Capacities

New York City Code

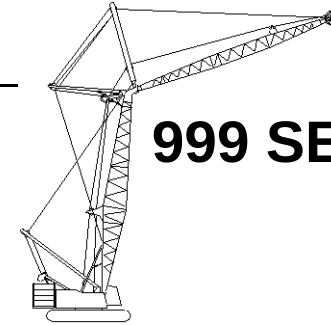
Luffing Jib No. 135 On Boom No. 82 or 22EL

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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



999 SERIES 2

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			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	
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	30,200 *										90
95	61.6	357.5	26,200 *	68.1	364.0	29,900 *										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	28,300 *							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	26,600							120
125	49.3	336.8	20,000 *	56.7	348.4	23,900 *	60.8	353.0	25,000							125
130	47.1	332.4	19,000 *	54.6	344.9	22,800 *	58.8	350.1	23,600							130
135	44.7	327.5	18,100 *	52.5	341.2	21,800 *	56.8	346.9	22,300							135
140	42.3	322.2	17,300 *	50.4	337.3	20,800 *	54.8	343.5	21,100	61.5	350.1	15,800				140
145	39.7	316.5	16,400 *	48.2	333.0	19,900 *	52.7	339.8	19,900	59.6	347.3	14,900				145
150	37.0	310.2	15,700 *	45.9	328.3	18,900 *	50.5	335.9	18,900	57.6	344.2	14,000				150
155	34.1	303.2	14,900 *	43.5	323.2	18,000 *	48.3	331.6	17,900	55.6	340.9	13,200				155
160	31.0	295.3	14,200 *	41.0	317.7	17,200 *	46.0	327.0	17,000	53.5	337.4	12,500				160
170	23.6	276.0	12,800 *	35.5	305.0	15,600 *	41.1	316.5	15,400	49.2	329.4	11,100	56.2	336.6	6,900	170
180	12.8	245.5	11,200 *	29.2	289.2	14,100 *	35.7	303.8	13,900	44.6	320.0	9,900	52.1	329.3	6,000	180
190				21.3	268.0	12,500 *	29.4	288.2	12,600	39.6	308.9	8,800	47.7	320.9	5,100	190
200				7.9	229.6	10,900 *	21.6	267.2	11,400	33.9	295.5	7,800	42.9	311.0	4,400	200
210							8.7	230.3	10,200	27.3	278.6	6,900				210
220										18.7	255.1	6,100				220