

Liftcrane Luffing Jib Capacities

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. 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 without intermediate fall in luffing jib requires only the middle two sheaves in the lower boom point; all other sheaves must be removed from lower boom point.

Lower boom point assembly must be completely removed from:

- 190 Ft. and 200 Ft. boom lengths with intermediate fall in luffing jib and
- 200 Ft. boom length without intermediate fall in luffing jib.

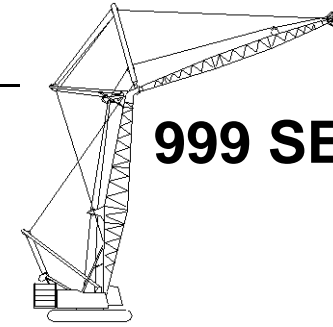
Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and luffing jib point sheaves, is considered part of luffing jib load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation 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** or **No. A09286** (Boom No. 22EL) or **No. 196200** or **No. A09287** (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 horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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

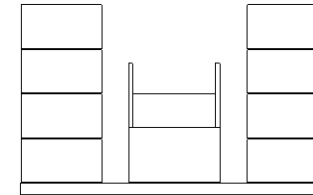


999 SERIES 2

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. 8242-A** for lifting off lower boom point with luffing jib attached. Consult chart **No. 8583-A** for intermediate fall capacities. Consult chart **No. 8585-A** for intermediate fall capacities with fixed jib attached. Chart **No. 8242-A** and **No. 8583-A** cannot be used when fixed jib No. 138 is attached to luffing jib No. 135.



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

**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.

Intermediate Fall Deduct

Deduct 1,500 Lbs. from capacities when luffing jib is equipped with intermediate fall.

Boom Catwalks Deduct

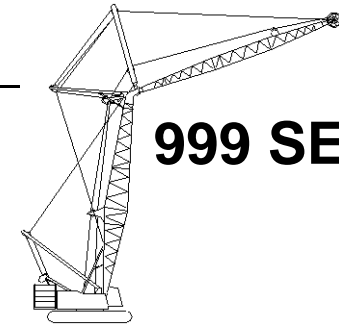
Deduct 300 Lbs. from capacities when boom catwalks are attached.



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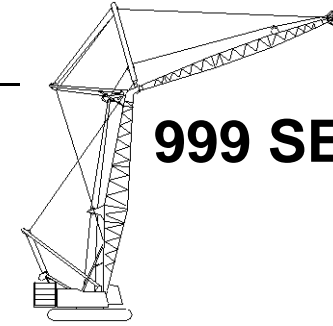
70 Ft. Boom, 70 Ft. Jib

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

REF ONLY

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



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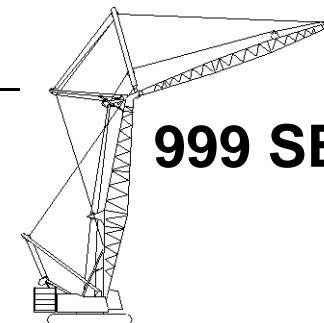
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 184,600 Lb. Crane Counterweight
 44,000 Lb. Carbody Counterweight
 360 Degree Rating

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70 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	67.7	152.0	95,100 *b																			40
45	63.8	149.7	90,200 *b	68.6	151.7	98,600 *b																45
50	59.7	147.1	87,300 *b	64.7	149.6	93,800 *b	67.5	150.5	97,300 *b													50
55	55.5	143.9	83,200 *	60.6	147.0	89,200 *b	63.6	148.2	92,800 *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



999 SERIES 2

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184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

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70 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	70.3	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

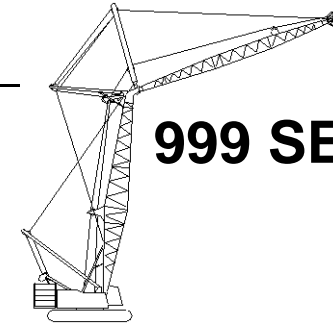
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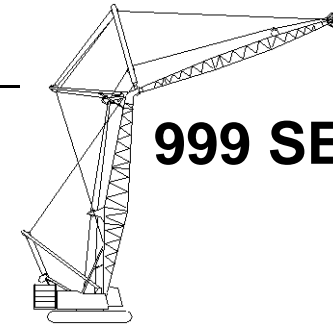
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999 SERIES 2

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
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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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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

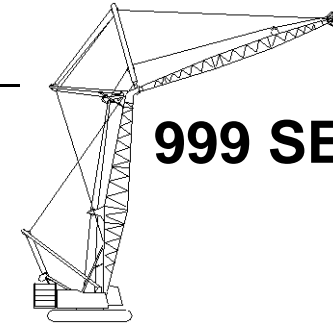
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

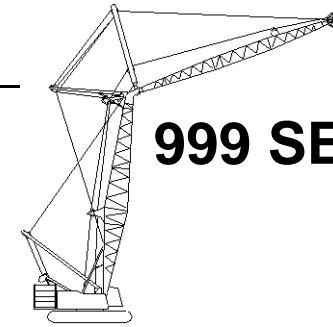
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	75.4	194.1	68,200 *b																			40
45	72.9	192.6	66,500 *b																			45
50	70.4	191.0	63,600 *																			50
55	67.8	189.1	60,800 *	70.9	190.7	64,500 *																55
60	65.2	186.9	58,300 *	68.4	188.8	61,900 *																60
65	62.6	184.4	55,800 *	65.8	186.7	59,400 *	67.7	187.6	61,100 *													65
70	59.8	181.7	53,500 *	63.1	184.3	56,900 *	65.0	185.4	58,700 *													70
75	57.0	178.6	51,200 *	60.4	181.6	54,600 *	62.4	182.9	56,300 *													75
80	54.1	175.2	49,000 *	57.6	178.6	52,200 *	59.7	180.2	54,000 *	62.9	181.9	56,300 *										80
85	51.1	171.4	47,000 *	54.8	175.3	50,000 *	56.8	177.1	51,700 *	60.2	179.2	54,200 *										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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

70 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.2	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

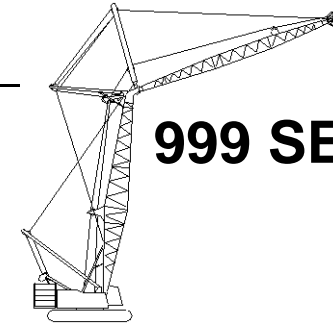
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

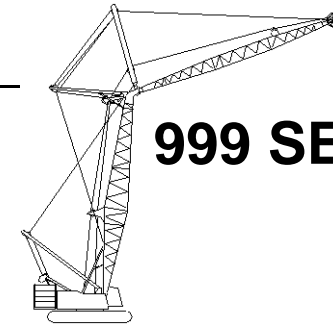
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.4	213.4	52,300 *																			45
50	73.3	212.0	50,100 *																			50
55	71.1	210.4	48,000 *																			55
60	68.9	208.6	45,900 *																			60
65	66.7	206.6	43,900 *	69.4	208.3	46,500 *																65
70	64.5	204.3	42,000 *	67.2	206.3	44,600 *																70
75	62.2	201.8	40,200 *	65.0	204.1	42,700 *	66.6	205.1	44,000 *													75
80	59.9	199.0	38,500 *	62.7	201.7	40,900 *	64.3	202.8	42,200 *													80
85	57.5	196.0	36,900 *	60.4	199.0	39,200 *	62.0	200.3	40,400 *													85
90	55.0	192.6	35,300 *	58.0	196.0	37,500 *	59.7	197.5	38,800 *	62.5	199.2	40,400 *										90
95	52.5	189.0	33,800 *	55.5	192.7	35,900 *	57.3	194.4	37,100 *	60.1	196.5	38,900 *										95
100	49.8	184.9	32,400 *	53.0	189.1	34,400 *	54.8	191.1	35,600 *	57.7	193.5	37,300 *										100
105	47.1	180.5	31,100 *	50.4	185.1	33,000 *	52.3	187.4	34,100 *	55.3	190.2	35,800 *										105
110	44.2	175.6	29,800 *	47.7	180.8	31,700 *	49.7	183.3	32,700 *	52.8	186.6	34,400 *	55.7	188.7	35,800 *							110
115	41.2	170.2	28,600 *	44.9	176.0	30,400 *	46.9	178.9	31,400 *	50.1	182.6	33,000 *	53.2	185.1	34,400 *							115
120	38.0	164.2	27,500 *	41.9	170.7	29,200 *	44.0	173.9	30,100 *	47.4	178.2	31,700 *	50.6	181.2	33,100 *							120
125	34.6	157.3	26,400 *	38.7	164.8	28,000 *	41.0	168.5	28,900 *	44.6	173.4	30,400 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

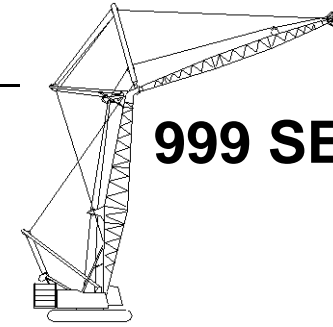
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

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	29.7	152.2	21,000 *	34.1	161.3	22,200 *	36.5	165.8	23,000 *	40.1	171.8	24,300 *	43.4	176.2	25,500 *	46.4	179.2	26,600 *				140
145	25.6	142.7	20,100 *	30.5	153.4	21,300 *	33.1	158.6	22,100 *	37.1	165.5	23,300 *	40.6	170.6	24,400 *	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



999 SERIES 2

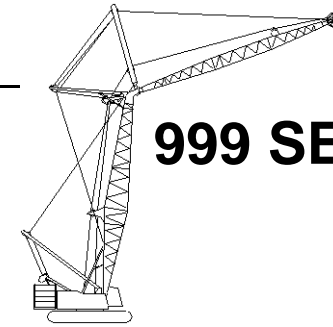
Liftcrane Luffing Jib Capacities

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

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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

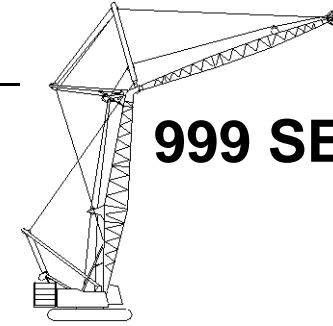
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

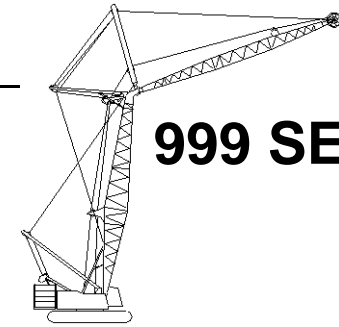
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	64.7	151.2	101,800 *b																			40
45	60.0	148.6	96,800 *b																			45
50	55.2	145.4	93,900 *b	61.9	148.9	101,400 *b																50
55	50.0	141.6	90,000 *	57.1	146.0	96,800 *b	61.0	147.7	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

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

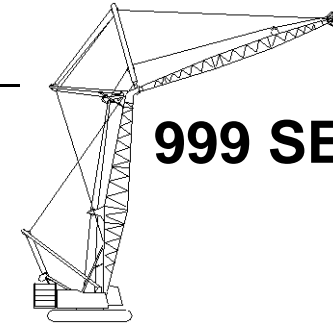
80 Ft. Boom, 80 Ft. Jib

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				105
110													19.3	108.9	41,700	30.2	119.8	40,300	43.5	131.3	41,100	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

Liftcrane Luffing Jib Capacities

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

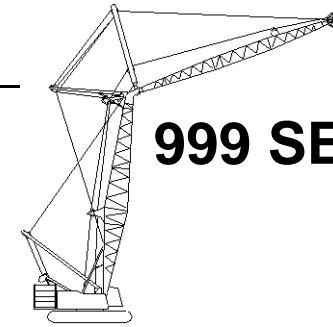
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	70.6	172.8	83,300 *b																			40
45	67.1	170.9	79,200 *b																			45
50	63.6	168.6	76,800 *b	68.5	170.9	83,000 *b																50
55	60.0	165.9	73,400 *	65.0	168.8	79,200 *b	67.9	169.8	82,300 *b													55
60	56.3	162.8	70,300 *	61.4	166.3	75,700 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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.

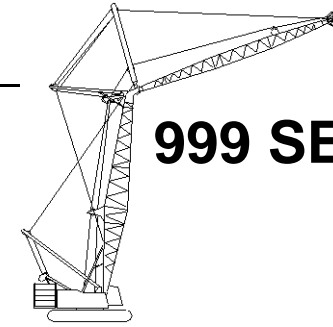
Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Luffing Jib Capacities

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

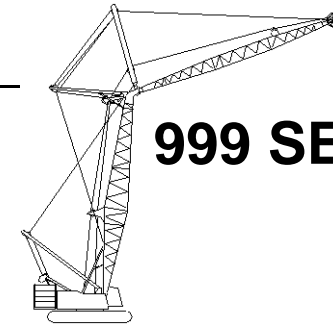
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	74.2	193.8	73,400 *b																			40
45	71.5	192.2	71,500 *b																			45
50	68.7	190.4	68,600 *																			50
55	65.9	188.3	65,700 *	69.8	190.4	70,300 *																55
60	63.0	185.9	62,900 *	67.0	188.4	67,500 *																60
65	60.0	183.2	60,200 *	64.1	186.2	64,600 *	66.5	187.3	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

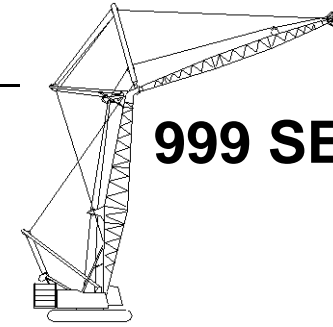
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

80 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	75.5	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	46.2	162.8	30,500	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	42.8	157.8	29,000	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



999 SERIES 2

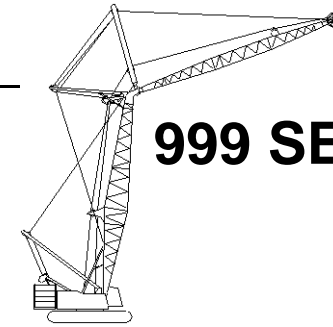
Liftcrane Luffing Jib Capacities

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

80 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	74.4	213.2	56,400 *b																			45
50	72.1	211.6	54,100 *																			50
55	69.8	209.9	51,800 *																			55
60	67.4	208.0	49,700 *	70.7	209.9	52,900 *																60
65	65.0	205.8	47,600 *	68.3	208.0	50,800 *																65
70	62.5	203.3	45,600 *	65.9	205.9	48,700 *	67.9	206.9	50,300 *													70
75	60.0	200.5	43,800 *	63.5	203.5	46,800 *	65.5	204.8	48,300 *													75
80	57.4	197.5	42,000 *	61.0	200.9	44,900 *	63.1	202.4	46,400 *													80
85	54.8	194.2	40,300 *	58.5	198.0	43,100 *	60.6	199.7	44,600 *													85
90	52.0	190.4	38,800 *	55.8	194.8	41,400 *	58.0	196.7	42,900 *	61.5	199.0	45,000 *										90
95	49.2	186.3	37,200 *	53.1	191.2	39,800 *	55.4	193.4	41,200 *	58.9	196.1	43,300 *										95
100	46.2	181.8	35,800 *	50.3	187.2	38,200 *	52.6	189.8	39,600 *	56.3	192.9	41,700 *										100
105	43.1	176.7	34,500 *	47.4	182.9	36,700 *	49.8	185.8	38,100 *	53.6	189.4	40,100 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

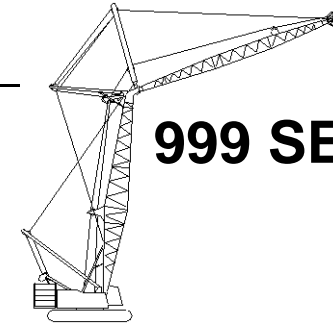
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

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



999 SERIES 2

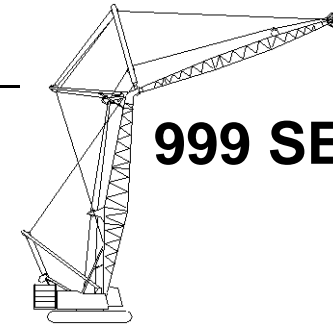
Liftcrane Luffing Jib Capacities

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

80 Ft. Boom, 150 Ft. Jib

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

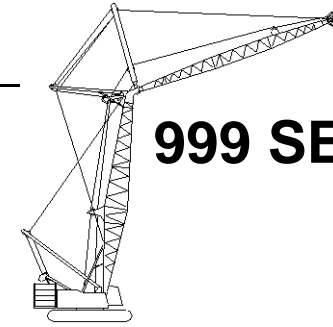
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

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



999 SERIES 2

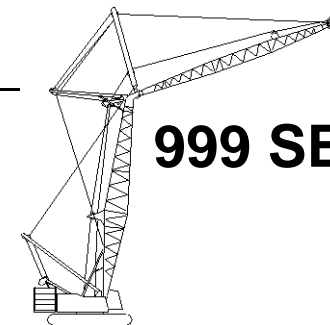
Liftcrane Luffing Jib Capacities

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

80 Ft. Boom, 170 Ft. Jib

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

90 Ft. Boom, 70 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	60.4	158.8	96,900 *b																			45
50	55.5	155.7	94,000 *b	63.0	159.5	102,500 *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

REF ONLY

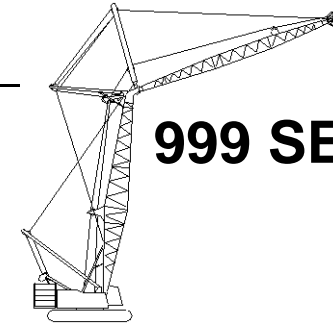
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

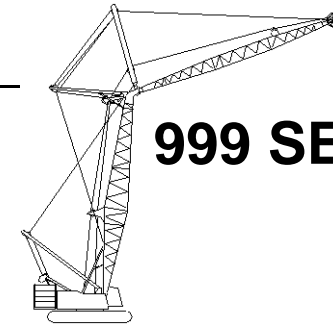
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	68.3	172.3	95,000 *b																			40
45	64.4	170.1	90,300 *b																			45
50	60.3	167.4	87,500 *b	66.6	170.5	95,500 *b																50
55	56.1	164.3	83,600 *	62.6	168.2	91,100 *b	66.3	169.6	95,400 *b													55
60	51.7	160.7	80,000 *	58.5	165.3	87,000 *b	62.3	167.2	91,200 *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							15.3	117.5	50,200	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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.

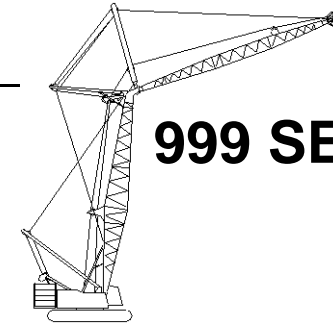
Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Luffing Jib Capacities

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

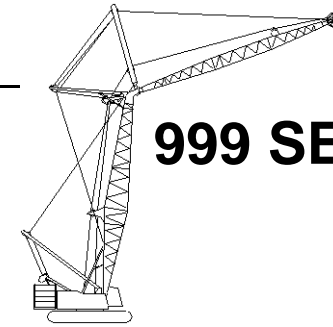
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	72.8	193.5	77,800 *b																			40
45	69.8	191.8	75,200 *b																			45
50	66.7	189.8	71,700 *																			50
55	63.5	187.4	68,400 *	68.4	190.1	74,400 *b																55
60	60.3	184.8	65,400 *	65.3	188.0	71,100 *																60
65	56.9	181.7	62,500 *	62.1	185.5	68,000 *	65.1	187.0	70,900 *													65
70	53.4	178.2	59,900 *	58.8	182.7	65,000 *	61.9	184.5	67,900 *													70
75	49.8	174.3	57,500 *	55.4	179.4	62,300 *	58.6	181.6	65,100 *													75
80	45.9	169.7	55,200 *	51.8	175.7	59,800 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

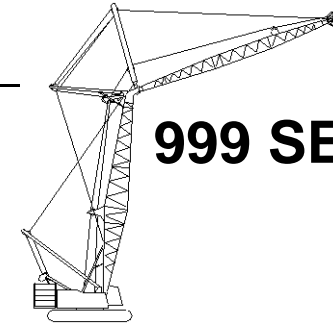
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

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



999 SERIES 2

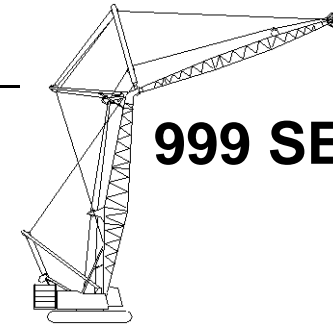
Liftcrane Luffing Jib Capacities

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

90 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	75.7	214.2	67,700 *b																			40
45	73.2	212.8	66,100 *b																			45
50	70.7	211.2	63,300 *																			50
55	68.2	209.3	60,700 *																			55
60	65.6	207.2	58,200 *	69.6	209.6	62,600 *																60
65	62.9	204.8	55,800 *	67.0	207.6	60,100 *																65
70	60.2	202.1	53,500 *	64.4	205.4	57,800 *	66.9	206.7	59,900 *													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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

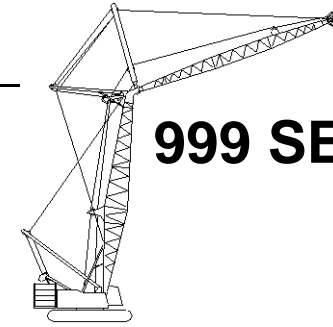
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

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 *	66.3	215.4	48,900 *													75
80	57.6	207.7	42,100 *	61.6	211.5	45,300 *	63.9	213.1	47,000 *													80
85	55.0	204.4	40,400 *	59.1	208.6	43,500 *	61.4	210.5	45,200 *													85
90	52.2	200.7	38,800 *	56.5	205.5	41,800 *	58.9	207.6	43,500 *	62.7	210.0	45,700 *										90
95	49.4	196.6	37,300 *	53.8	202.0	40,200 *	56.3	204.4	41,800 *	60.2	207.3	44,100 *										95
100	46.4	192.1	35,900 *	51.0	198.2	38,600 *	53.6	200.9	40,200 *	57.7	204.3	42,500 *										100
105	43.3	187.1	34,600 *	48.1	193.9	37,100 *	50.8	197.1	38,600 *	55.0	200.9	41,000 *										105
110	40.0	181.5	33,300 *	45.1	189.2	35,700 *	47.9	192.8	37,200 *	52.3	197.3	39,400 *	56.3	200.0	39,900							110
115	36.4	175.1	32,200 *	41.9	183.9	34,400 *	44.9	188.0	35,800 *	49.4	193.2	38,000 *	53.6	196.5	37,700							115
120	32.5	167.8	31,100 *	38.5	178.0	33,200 *	41.6	182.7	34,500 *	46.5	188.7	36,600 *	50.8	192.7	35,700							120
125	28.2	159.3	30,100 *	34.8	171.2	32,000 *	38.2	176.7	33,200 *	43.3	183.7	35,300 *	47.9	188.4	33,900	52.1	191.2	32,300				125
130	23.1	148.9	29,200 *	30.7	163.5	31,000 *	34.5	169.9	32,100 *	40.0	178.0	33,900	44.9	183.6	32,300	49.2	187.1	30,700				130
135	16.6	135.0	26,700 *	26.0	154.2	30,000 *	30.4	162.0	31,000 *	36.5	171.7	32,300	41.7	178.3	30,700	46.2	182.6	29,200				135
140	4.4	108.0	20,500 *	20.5	142.6	29,200 *	25.7	152.7	30,100 *	32.6	164.4	30,800	38.2	172.3	29,300	43.1	177.5	27,800	47.4	180.5	26,400	140
145				12.7	125.8	26,500 *	20.0	140.8	29,200 *	28.2	155.9	29,400	34.5	165.6	28,000	39.8	171.8	26,600	44.3	175.7	25,200	145
150							12.0	123.4	27,400 *	23.1	145.5	28,100	30.4	157.7	26,700	36.2	165.4	25,400	41.0	170.2	24,100	150
155										16.7	131.7	26,900	25.7	148.3	25,600	32.3	158.1	24,300	37.6	164.1	23,000	155
160										4.9	105.4	25,700 *	20.1	136.5	24,500	27.9	149.4	23,300	33.8	157.2	22,100	160
170																16.1	124.7	21,400	24.8	139.3	20,300	170
180																			9.9	107.3	18,600	180



999 SERIES 2

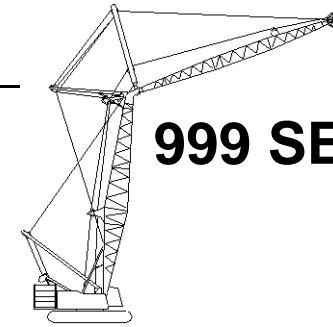
Liftcrane Luffing Jib Capacities

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

90 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.7	233.6	52,000 *																			45
50	73.6	232.2	49,900 *																			50
55	71.4	230.6	47,800 *																			55
60	69.2	228.9	45,800 *																			60
65	67.0	226.8	43,900 *	70.5	229.1	47,100 *																65
70	64.8	224.6	42,100 *	68.3	227.2	45,200 *																70
75	62.5	222.1	40,300 *	66.1	225.1	43,400 *																75
80	60.2	219.4	38,600 *	63.8	222.7	41,600 *	65.9	224.1	43,200 *													80
85	57.8	216.4	37,000 *	61.5	220.2	39,900 *	63.6	221.8	41,500 *													85
90	55.3	213.1	35,500 *	59.1	217.3	38,300 *	61.3	219.2	39,800 *													90
95	52.8	209.5	34,000 *	56.7	214.2	36,700 *	59.0	216.3	38,200 *	62.6	218.7	40,300 *										95
100	50.2	205.5	32,600 *	54.2	210.7	35,200 *	56.6	213.1	36,700 *	60.2	215.9	38,800 *										100
105	47.5	201.1	31,300 *	51.7	207.0	33,700 *	54.1	209.7	35,200 *	57.8	212.9	37,300 *										105
110	44.6	196.3	30,000 *	49.0	202.8	32,400 *	51.5	205.9	33,700 *	55.4	209.6	35,900 *										110
115	41.7	191.0	28,800 *	46.3	198.3	31,100 *	48.8	201.7	32,400 *	52.9	206.0	34,500 *	56.6	208.7	36,200 *							115
120	38.5	185.0	27,700 *	43.4	193.2	29,800 *	46.1	197.1	31,100 *	50.2	202.0	33,100 *	54.1	205.3	34,900 *							120
125	35.1	178.3	26,600 *	40.3	187.6	28,600 *	43.1	192.0	29,900 *	47.5	197.7	31,800 *	51.5	201.5	33,600 *							125
130	31.3	170.7	25,600 *	37.0	181.4	27,500 *	40.1	186.4	28,700 *	44.7	192.9	30,600 *	48.9	197.3	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			16,900	190



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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.

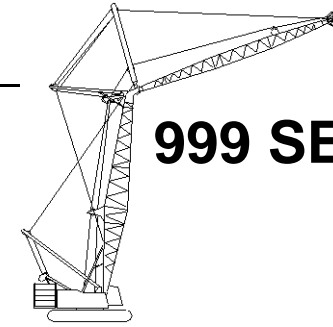
Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Luffing Jib Capacities

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

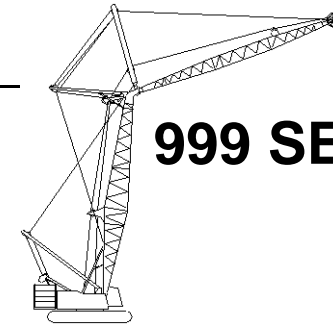
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

90 Ft. Boom, 170 Ft. Jib

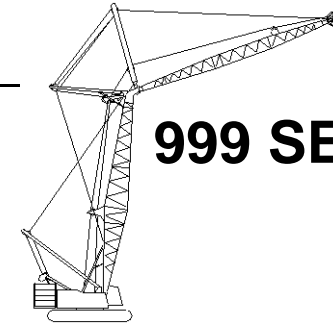
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing 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	20,900 *				150
155	31.7	187.3	13,900 *	36.4	198.1	15,200 *	39.0	203.2	16,000 *	42.9	210.1	17,400 *	46.5	215.1	18,800 *	49.7	218.4	20,000 *				155
160	28.4	178.7	13,200 *	33.5	190.9	14,500 *	36.2	196.8	15,200 *	40.4	204.5	16,600 *	44.1	210.2	17,900 *	47.5	214.0	19,100 *				160
170	20.1	156.5	11,700 *	26.8	173.7	13,000 *	30.0	181.4	13,700 *	34.8	191.5	14,900 *	39.0	198.9	16,100 *	42.7	204.0	17,300 *	46.0	207.2	18,300 *	170
180	3.9	109.4	10,200 *	17.9	149.3	11,300 *	22.4	161.1	12,100 *	28.4	175.3	13,500 *	33.3	185.2	14,600 *	37.5	192.1	15,700 *	41.1	196.7	16,700 *	180
190							10.5	127.3	10,500 *	20.2	153.2	11,700 *	26.5	167.8	13,000 *	31.5	177.5	14,200 *	35.7	184.1	15,100 *	190
200										4.2	107.0	10,300 *	17.5	143.1	11,400 *	24.3	158.7	12,500 *	29.4	168.4	13,700 *	200
210																14.0	129.9	11,000 *	21.6	147.5	12,000 *	210
220																			8.7	110.6	10,500 *	220



Liftcrane Luffing Jib Capacities

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

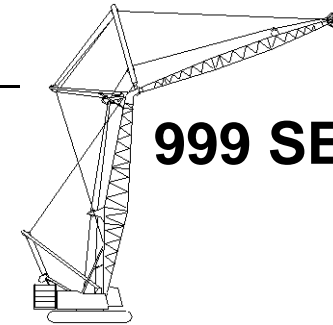
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds		
45	60.7	169.0	96,900 *b																			45	
50	55.9	165.9	94,100 *b	64.1	170.0	103,400 *b																50	
55	50.8	162.2	90,300 *	59.5	167.3	98,700 *b	64.2	169.2	103,900 *b													55	
60	45.3	157.7	86,900 *	54.6	164.1	94,600 *b	59.6	166.5	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																						120	
125																				25.7	124.0	32,900	120
																				13.6	109.9	31,100	125



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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

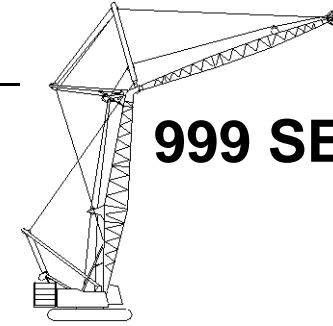
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

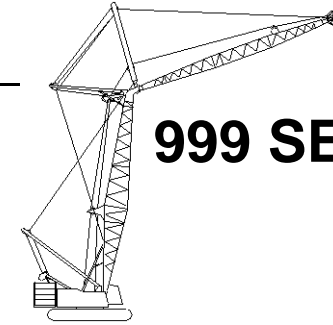
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	71.0	193.0	83,000 *b																			40
45	67.6	191.2	79,000 *b																			45
50	64.1	188.9	76,800 *b	70.1	191.7	84,100 *b																50
55	60.5	186.3	73,500 *	66.7	189.7	80,500 *b																55
60	56.8	183.3	70,400 *	63.2	187.4	77,000 *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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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

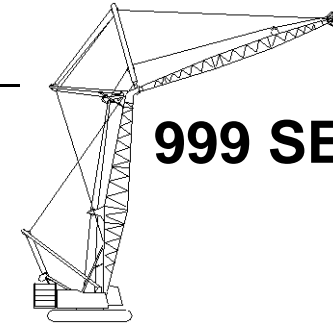
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

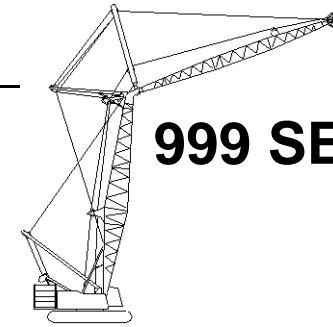
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	74.6	214.0	72,700 *b																			40
45	71.9	212.5	71,000 *b																			45
50	69.1	210.7	68,200 *																			50
55	66.3	208.6	65,500 *																			55
60	63.4	206.3	62,900 *	68.4	209.3	68,200 *																60
65	60.4	203.6	60,300 *	65.5	207.2	65,600 *																65
70	57.4	200.6	57,800 *	62.6	204.7	63,000 *	65.6	206.3	65,700 *													70
75	54.3	197.2	55,500 *	59.7	202.0	60,400 *	62.7	203.9	63,100 *													75
80	51.0	193.4	53,400 *	56.6	198.9	58,000 *	59.7	201.2	60,700 *													80
85	47.5	189.1	51,400 *	53.4	195.4	55,800 *	56.7	198.1	58,300 *	61.8	201.0	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

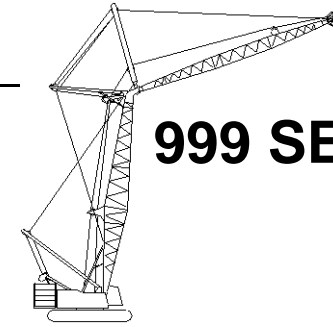
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

100 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
40	75.9	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



999 SERIES 2

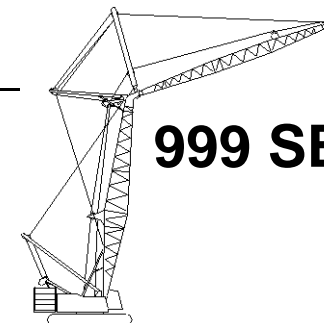
Liftcrane Luffing Jib Capacities

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

100 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	74.7	233.3	55,400 *b																			45
50	72.4	231.9	53,800 *																			50
55	70.1	230.2	51,700 *																			55
60	67.7	228.2	49,600 *																			60
65	65.3	226.1	47,600 *	69.5	228.8	51,400 *																65
70	62.9	223.6	45,700 *	67.1	226.8	49,400 *																70
75	60.4	220.9	43,900 *	64.7	224.6	47,500 *	67.2	226.0	49,300 *													75
80	57.8	217.9	42,100 *	62.2	222.1	45,600 *	64.8	223.8	47,500 *													80
85	55.2	214.6	40,500 *	59.7	219.3	43,900 *	62.3	221.3	45,700 *													85
90	52.4	211.0	38,900 *	57.1	216.2	42,200 *	59.8	218.5	44,000 *													90
95	49.6	206.9	37,400 *	54.5	212.8	40,500 *	57.2	215.4	42,300 *	61.5	218.4	44,800 *										95
100	46.6	202.4	36,000 *	51.7	209.1	39,000 *	54.5	212.0	40,700 *	59.0	215.5	43,300 *										100
105	43.5	197.5	34,700 *	48.8	204.9	37,500 *	51.8	208.3	39,100 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

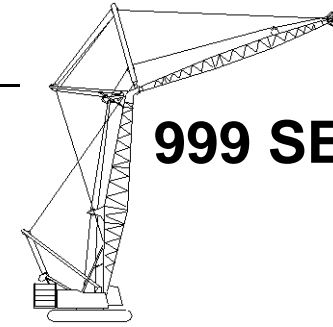
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

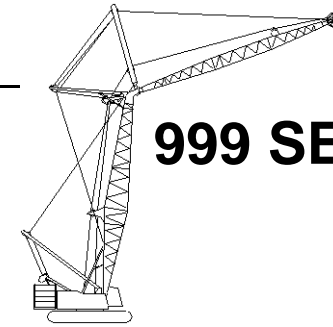
Liftcrane Luffing Jib Capacities

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

100 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	74.8	252.7	46,100 *																			50
55	72.8	251.3	44,200 *																			55
60	70.8	249.6	42,400 *																			60
65	68.8	247.8	40,700 *																			65
70	66.7	245.7	38,900 *	70.3	248.3	42,100 *																70
75	64.6	243.5	37,300 *	68.3	246.4	40,400 *																75
80	62.5	241.0	35,700 *	66.2	244.3	38,700 *																80
85	60.3	238.3	34,200 *	64.1	242.0	37,100 *	66.2	243.5	38,700 *													85
90	58.1	235.3	32,700 *	61.9	239.4	35,600 *	64.1	241.1	37,100 *													90
95	55.8	232.0	31,300 *	59.7	236.6	34,100 *	62.0	238.6	35,600 *													95
100	53.5	228.5	29,900 *	57.5	233.6	32,600 *	59.8	235.8	34,200 *													100
105	51.1	224.6	28,600 *	55.2	230.2	31,200 *	57.6	232.8	32,700 *	61.3	235.7	34,900 *										105
110	48.6	220.4	27,400 *	52.9	226.6	29,900 *	55.3	229.5	31,400 *	59.1	232.8	33,500 *										110
115	46.0	215.8	26,200 *	50.4	222.7	28,600 *	52.9	225.8	30,000 *	56.9	229.7	32,200 *										115
120	43.2	210.7	25,100 *	47.9	218.3	27,400 *	50.5	221.9	28,700 *	54.6	226.3	30,900 *										120
125	40.4	205.1	24,100 *	45.3	213.6	26,200 *	48.0	217.6	27,500 *	52.2	222.6	29,600 *	56.1	225.8	31,400 *							125
130	37.3	198.9	23,100 *	42.5	208.4	25,100 *	45.3	212.9	26,400 *	49.7	218.5	28,400 *	53.8	222.2	30,200 *							130
135	34.1	191.9	22,100 *	39.6	202.7	24,100 *	42.6	207.7	25,200 *	47.2	214.1	27,200 *	51.4	218.4	29,000 *							135
140	30.5	184.0	21,200 *	36.5	196.3	23,100 *	39.7	202.0	24,200 *	44.5	209.3	26,100 *	48.9	214.2	27,900 *	52.8	217.2	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

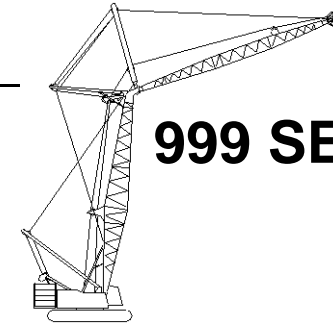
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

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	27,100 *							130
135	39.0	208.7	19,300 *	43.7	217.7	21,200 *	46.4	222.0	22,300 *	50.4	227.4	24,200 *	54.2	231.0	25,900 *							135
140	36.1	202.2	18,400 *	41.1	212.2	20,200 *	43.8	217.0	21,300 *	48.1	223.1	23,100 *	51.9	227.2	24,800 *							140
145	33.0	195.0	17,600 *	38.3	206.2	19,200 *	41.2	211.5	20,300 *	45.6	218.4	22,100 *	49.6	223.1	23,700 *							145
150	29.5	186.7	16,800 *	35.3	199.5	18,400 *	38.4	205.5	19,400 *	43.0	213.3	21,100 *	47.2	218.7	22,700 *	51.0	222.1	23,800				150
155	25.6	177.1	16,000 *	32.1	192.0	17,500 *	35.4	198.8	18,500 *	40.3	207.7	20,100 *	44.7	213.9	21,700 *	48.7	217.9	22,800				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	20,700 *	46.2	213.3	21,800				160
170	5.5	123.3	14,300 *	19.8	161.1	15,300 *	24.7	172.9	16,100 *	31.1	186.8	17,500 *	36.5	196.4	18,900 *	41.0	202.8	20,000	45.0	206.8	18,700	170
180							13.7	144.2	14,800 *	23.3	167.4	15,900 *	29.9	181.1	17,200 *	35.2	190.0	18,400	39.7	195.8	17,200	180
190										11.2	135.2	14,800 *	21.7	160.4	15,800 *	28.4	173.9	16,900 *	33.7	182.4	15,800	190
200													7.4	121.8	14,500 *	19.6	151.5	15,600 *	26.6	165.2	14,600	200
210																			16.9	140.2	13,500	210



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

100 Ft. Boom, 170 Ft. Jib

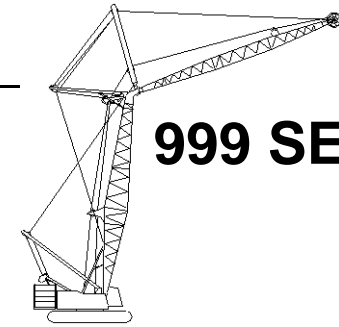
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing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



Liftcrane Luffing Jib Capacities

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

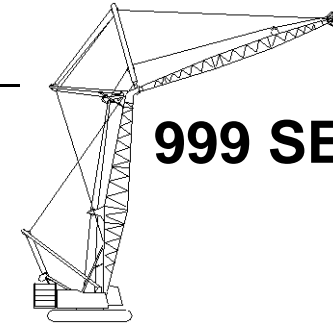
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet	
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	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



Liftcrane Luffing Jib Capacities

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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	64.9	190.4	87,600 *b																			45
50	60.9	187.8	84,100 *b																			50
55	56.7	184.8	80,400 *	64.6	189.2	89,100 *b																55
60	52.3	181.2	77,100 *	60.5	186.6	85,100 *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							10.4	130.5	46,500	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

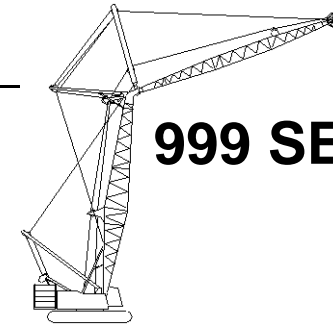
Luffing Jib No. 135 On Boom No. 82 or 22EL

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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	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

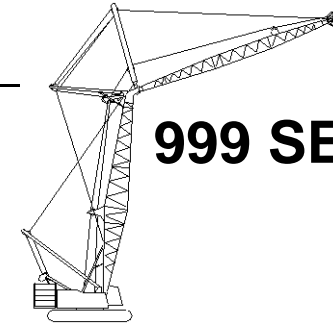
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

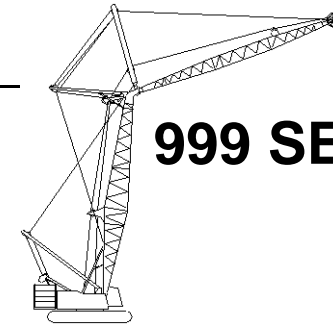
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	70.2	212.0	75,000 *b																			45
50	67.1	210.0	71,600 *b																			50
55	64.0	207.8	68,400 *	69.9	210.9	75,400 *b																55
60	60.7	205.1	65,400 *	66.8	208.9	72,200 *b																60
65	57.4	202.1	62,600 *	63.7	206.6	69,100 *	67.2	208.2	72,500 *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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

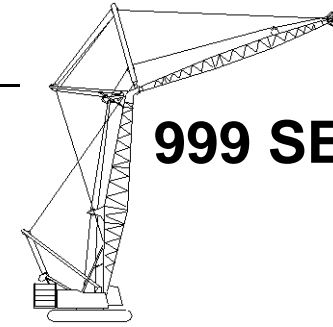
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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.



999 SERIES 2

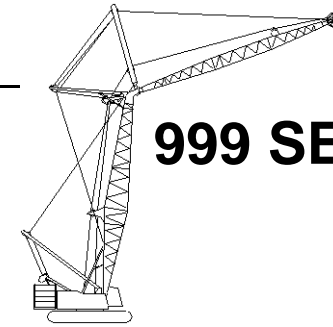
Liftcrane Luffing Jib Capacities

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

110 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	73.6	233.0	58,600 *b																			45
50	71.1	231.4	57,400 *																			50
55	68.5	229.6	55,700 *																			55
60	65.9	227.5	53,500 *	70.9	230.3	58,100 *																60
65	63.3	225.1	51,300 *	68.3	228.5	55,900 *																65
70	60.6	222.5	49,200 *	65.7	226.4	53,800 *																70
75	57.8	219.5	47,300 *	63.1	224.0	51,600 *	66.1	225.7	54,000 *													75
80	55.0	216.2	45,400 *	60.4	221.3	49,600 *	63.4	223.3	51,900 *													80
85	52.0	212.5	43,600 *	57.6	218.3	47,600 *	60.7	220.7	49,900 *													85
90	48.9	208.3	42,000 *	54.7	214.9	45,800 *	57.9	217.7	48,000 *													90
95	45.6	203.7	40,400 *	51.7	211.2	44,000 *	55.1	214.4	46,100 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

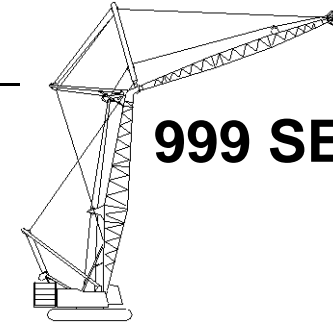
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

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.



999 SERIES 2

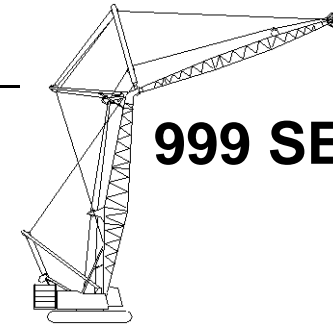
Liftcrane Luffing Jib Capacities

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

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

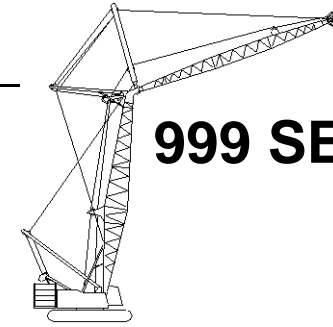
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

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	34,200 *										110
115	46.2	226.1	26,300 *	51.0	233.6	28,900 *	53.8	237.0	30,500 *	58.1	241.0	32,900 *										115
120	43.4	221.1	25,200 *	48.5	229.3	27,700 *	51.4	233.2	29,200 *	55.8	237.8	31,500 *										120
125	40.6	215.5	24,200 *	45.9	224.7	26,500 *	48.9	229.0	28,000 *	53.4	234.2	30,300 *	57.6	237.4	31,900							125
130	37.6	209.4	23,200 *	43.2	219.6	25,400 *	46.3	224.4	26,800 *	51.0	230.3	29,100 *	55.4	234.1	30,300							130
135	34.3	202.5	22,200 *	40.3	214.0	24,400 *	43.6	219.4	25,700 *	48.5	226.1	27,900 *	53.0	230.5	28,800							135
140	30.7	194.6	21,300 *	37.3	207.8	23,300 *	40.7	213.9	24,600 *	45.9	221.5	26,700 *	50.6	226.5	27,500							140
145	26.8	185.5	20,500 *	34.0	200.8	22,400 *	37.7	207.7	23,600 *	43.2	216.4	25,600 *	48.1	222.2	26,200	52.4	225.7	24,400				145
150	22.2	174.5	19,700 *	30.4	192.9	21,500 *	34.5	200.9	22,600 *	40.3	210.8	24,600 *	45.4	217.5	25,000	50.0	221.7	23,300				150
155	16.4	160.2	19,100 *	26.4	183.7	20,700 *	30.9	193.1	21,700 *	37.3	204.6	23,600 *	42.7	212.4	24,000	47.4	217.3	22,300				155
160	6.9	136.0	18,600 *	21.7	172.5	19,900 *	27.0	184.0	20,900 *	34.0	197.6	22,600 *	39.8	206.7	22,900	44.8	212.5	21,300				160
170				5.3	130.8	18,800 *	16.7	159.1	19,400 *	26.4	180.4	20,900 *	33.4	193.2	21,100	39.1	201.3	19,600	43.9	206.2	18,100	170
180										15.8	154.5	19,400 *	25.6	175.5	19,400	32.5	187.5	18,000	38.1	194.7	16,700	180
190													14.4	148.1	17,900	24.5	169.1	16,600	31.4	180.3	15,400	190
200																12.4	139.1	15,300	23.0	160.9	14,200	200
210																			9.2	126.3	13,000	210



999 SERIES 2

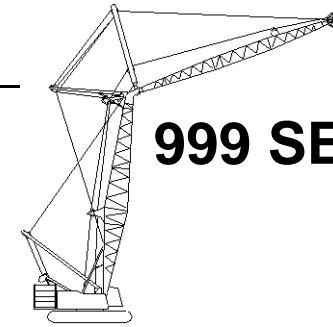
Liftcrane Luffing Jib Capacities

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

110 Ft. Boom, 160 Ft. Jib

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

110 Ft. Boom, 170 Ft. Jib

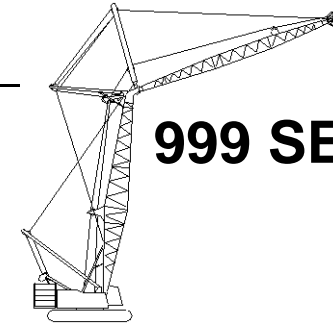
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing 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	24,200 *							135
140	40.7	228.7	16,500 *	45.4	238.0	18,300 *	48.0	242.4	19,500 *	52.1	247.9	21,400 *	55.9	251.5	23,200 *							140
145	38.0	222.6	15,600 *	43.0	232.9	17,400 *	45.7	237.7	18,500 *	50.0	243.9	20,400 *	53.9	248.0	22,100 *							145
150	35.2	215.9	14,800 *	40.5	227.3	16,500 *	43.3	232.6	17,600 *	47.7	239.5	19,400 *	51.7	244.2	21,100 *							150
155	32.2	208.4	14,100 *	37.8	221.1	15,700 *	40.8	227.1	16,700 *	45.4	234.8	18,500 *	49.6	240.1	20,200 *							155
160	28.8	199.9	13,400 *	34.9	214.3	14,900 *	38.2	221.0	15,900 *	43.0	229.7	17,500 *	47.3	235.6	19,200 *	51.2	239.3	20,600 *				160
170	20.8	178.3	11,800 *	28.5	198.2	13,400 *	32.3	206.9	14,300 *	37.8	217.9	15,800 *	42.5	225.6	17,400 *	46.8	230.6	18,900 *				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	15,700 *	41.9	220.4	17,100 *	46.0	224.5	16,000	180
190				5.0	131.7	10,300 *	15.7	161.9	11,100 *	24.8	185.0	12,700 *	31.3	199.0	14,200 *	36.6	208.2	15,500 *	41.1	214.0	14,700	190
200										14.8	157.2	11,100 *	24.0	179.9	12,600 *	30.5	193.1	14,000 *	35.7	201.4	13,600	200
210													13.6	150.5	11,000 *	23.0	173.3	12,400 *	29.4	185.8	12,500	210
220																11.7	141.3	10,800 *	21.6	164.8	11,600	220
230																			8.7	127.9	10,600	230



Liftcrane Luffing Jib Capacities

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

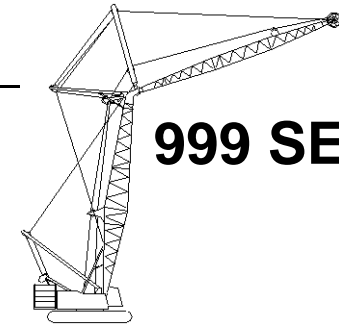
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	61.3	189.3	97,700 *b																			45
50	56.6	186.3	94,100 *b																			50
55	51.5	182.7	90,400 *b	61.7	188.6	100,500 *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

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

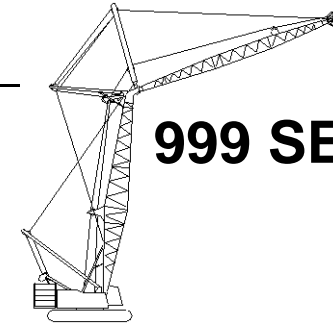
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

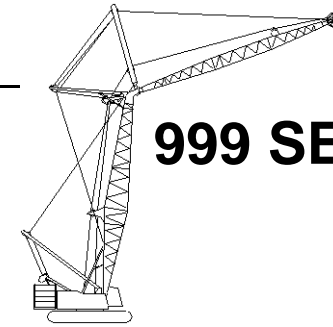
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	68.1	211.4	80,000 *b																			45
50	64.6	209.2	76,600 *b																			50
55	61.1	206.7	73,400 *	68.4	210.6	81,400 *b																55
60	57.3	203.7	70,300 *	64.9	208.4	78,000 *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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

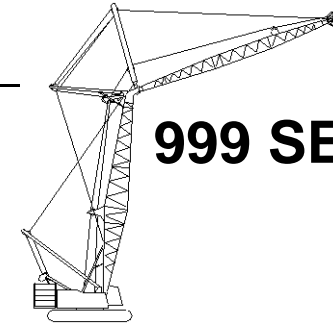
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

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.



999 SERIES 2

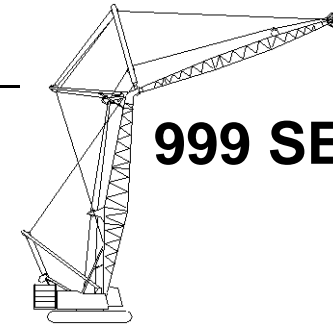
Liftcrane Luffing Jib Capacities

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

120 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	72.2	232.7	70,300 *b																			45
50	69.5	230.9	67,600 *b																			50
55	66.7	228.9	65,100 *																			55
60	63.8	226.6	62,600 *	69.7	230.1	68,500 *b																60
65	60.9	224.0	60,300 *	66.9	228.1	66,200 *																65
70	57.8	221.0	57,900 *	64.0	225.8	63,800 *	67.6	227.5	66,500 *													70
75	54.7	217.7	55,600 *	61.1	223.2	61,300 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

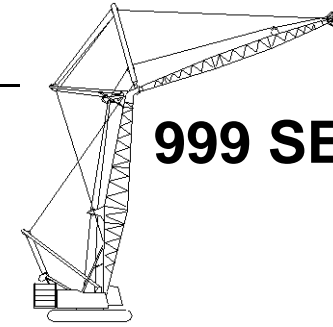
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

120 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	73.8	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



999 SERIES 2

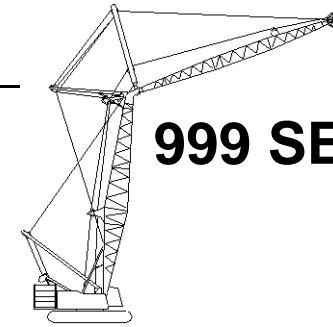
Liftcrane Luffing Jib Capacities

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

120 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.0	253.5	54,200 *b																			45
50	72.7	252.1	53,100 *																			50
55	70.4	250.4	51,400 *																			55
60	68.1	248.5	49,400 *																			60
65	65.7	246.4	47,500 *	70.6	249.5	51,800 *																65
70	63.2	244.0	45,700 *	68.3	247.7	50,000 *																70
75	60.7	241.3	43,900 *	65.9	245.5	48,100 *																75
80	58.2	238.4	42,200 *	63.4	243.2	46,300 *	66.4	245.0	48,400 *													80
85	55.5	235.1	40,600 *	60.9	240.5	44,600 *	64.0	242.7	46,700 *													85
90	52.8	231.5	39,100 *	58.4	237.6	42,900 *	61.5	240.1	45,000 *													90
95	50.0	227.5	37,600 *	55.8	234.4	41,300 *	59.0	237.3	43,400 *													95
100	47.1	223.1	36,200 *	53.1	230.8	39,700 *	56.4	234.1	41,800 *	61.6	237.8	44,600 *										100
105	44.0	218.2	34,900 *	50.2	226.8	38,200 *	53.7	230.6	40,200 *	59.1	234.9	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

120 Ft. Boom, 140 Ft. Jib

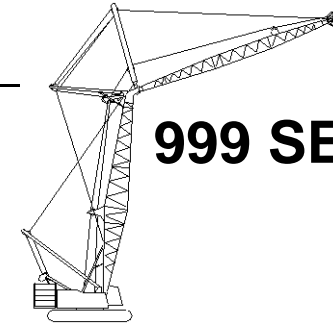
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing 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	39,300 *										105
110	45.2	227.3	30,300 *	51.0	235.7	33,400 *	54.2	239.4	35,300 *	59.2	243.6	38,000 *										110
115	42.3	222.1	29,100 *	48.3	231.4	32,100 *	51.6	235.6	33,900 *	56.7	240.5	36,600 *										115
120	39.2	216.3	28,000 *	45.5	226.7	30,800 *	48.9	231.4	32,500 *	54.3	237.0	35,200 *										120
125	35.8	209.8	27,000 *	42.5	221.6	29,600 *	46.2	226.9	31,200 *	51.7	233.3	33,500	56.7	237.1	31,100							125
130	32.1	202.4	25,900 *	39.4	215.8	28,500 *	43.3	221.8	30,000 *	49.0	229.1	31,900	54.2	233.6	29,600							130
135	28.0	193.7	25,000 *	36.1	209.4	27,400 *	40.2	216.2	28,900 *	46.3	224.6	30,300	51.7	229.9	28,100							135
140	23.3	183.3	24,200 *	32.4	202.0	26,400 *	36.9	209.9	27,800 *	43.4	219.5	28,900	49.0	225.7	26,800							140
145	17.4	169.9	23,500 *	28.4	193.5	25,400 *	33.3	202.8	26,800 *	40.3	214.0	27,600	46.2	221.2	25,600	51.5	225.4	23,600				145
150	8.2	147.9	22,000 *	23.8	183.3	24,600 *	29.4	194.6	25,800 *	37.0	207.7	26,400	43.3	216.1	24,400	48.8	221.2	22,500				150
155				18.0	170.2	23,800 *	24.9	184.9	24,900 *	33.5	200.6	25,200	40.3	210.5	23,400	46.0	216.6	21,500				155
160				9.3	149.6	23,300 *	19.5	172.7	24,100 *	29.6	192.5	24,200	37.0	204.3	22,400	43.1	211.5	20,600				160
170										19.7	170.7	22,200	29.5	189.0	20,500	36.7	199.5	18,900	42.6	205.6	17,300	170
180													19.7	167.2	18,900	29.2	184.1	17,400	36.1	193.4	15,900	180
190																19.2	161.8	16,000	28.5	177.6	14,600	190
200																			18.1	154.4	13,500	200



Liftcrane Luffing Jib Capacities

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

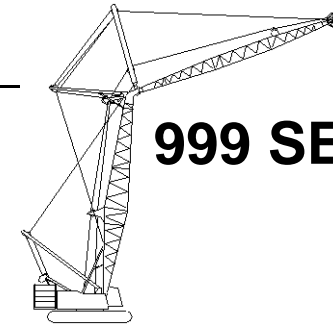
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5



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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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	29,000 *										120
125	44.8	240.6	21,400 *	49.9	249.2	23,900 *	52.7	253.1	25,400 *	57.2	257.8	27,800 *										125
130	42.2	235.4	20,400 *	47.5	244.8	22,800 *	50.4	249.2	24,300 *	55.0	254.5	26,600 *										130
135	39.4	229.6	19,500 *	45.0	240.0	21,800 *	48.1	244.9	23,200 *	52.8	250.8	25,500 *	57.1	254.4	27,400 *							135
140	36.5	223.2	18,600 *	42.4	234.8	20,700 *	45.6	240.2	22,100 *	50.5	246.9	24,300 *	55.0	251.1	26,300							140
145	33.4	216.0	17,700 *	39.7	229.1	19,800 *	43.0	235.1	21,100 *	48.1	242.6	23,300 *	52.8	247.4	25,100							145
150	30.0	207.9	16,900 *	36.8	222.7	18,900 *	40.3	229.4	20,100 *	45.7	237.9	22,200 *	50.5	243.5	24,000							150
155	26.2	198.6	16,200 *	33.7	215.6	18,000 *	37.5	223.2	19,200 *	43.1	232.8	21,200 *	48.1	239.2	22,900	52.6	242.9	21,100				155
160	21.8	187.3	15,500 *	30.3	207.6	17,200 *	34.4	216.4	18,300 *	40.4	227.2	20,200 *	45.7	234.5	21,900	50.3	238.9	20,100				160
170	7.7	149.3	14,400 *	22.2	187.3	15,700 *	27.5	199.7	16,700 *	34.6	214.2	18,400 *	40.4	223.8	20,100	45.4	229.9	18,400				170
180				8.7	151.2	14,600 *	18.3	176.0	15,300 *	27.6	197.6	16,800 *	34.5	210.7	18,500 *	40.2	219.1	17,000	45.0	224.1	15,400	180
190										18.5	174.1	15,400 *	27.6	194.1	16,900 *	34.3	205.9	15,600	39.7	213.1	14,200	190
200													18.4	170.5	15,500 *	27.2	189.1	14,400	33.7	199.7	13,100	200
210																17.9	165.1	13,300	26.6	182.5	12,000	210
220																			16.9	157.5	11,100	220



Liftcrane Luffing Jib Capacities

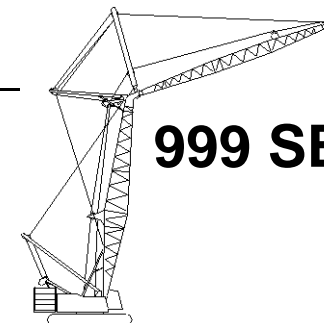
Luffing Jib No. 135 On Boom No. 82 or 22EL

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

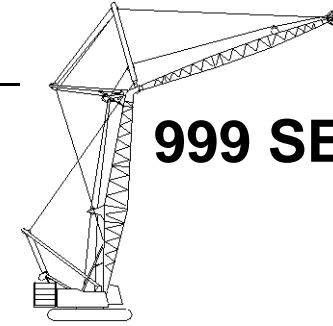
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

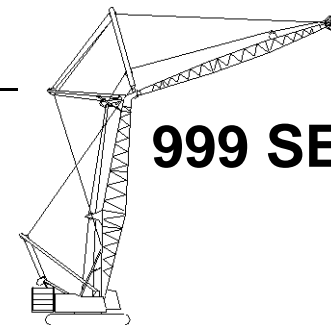
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet			
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds				
45	65.5	210.7	88,000 *b																			45			
50	61.5	208.2	84,200 *b																			50			
55	57.3	205.2	80,500 *b	66.5	210.2	90,400 *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							19.9	163.0	45,700	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

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

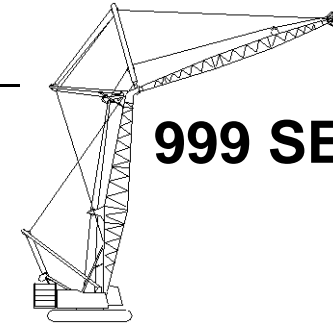
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

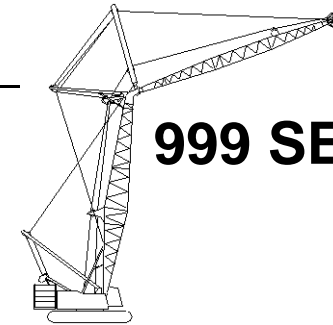
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	70.6	232.2	74,500 *b																			45
50	67.5	230.3	71,300 *b																			50
55	64.4	228.1	68,200 *																			55
60	61.2	225.5	65,300 *	68.3	229.8	73,000 *b																60
65	57.8	222.6	62,700 *	65.2	227.6	70,000 *																65
70	54.4	219.2	60,100 *	62.0	225.1	67,200 *	66.3	227.3	71,000 *b													70
75	50.8	215.4	57,800 *	58.7	222.3	64,500 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

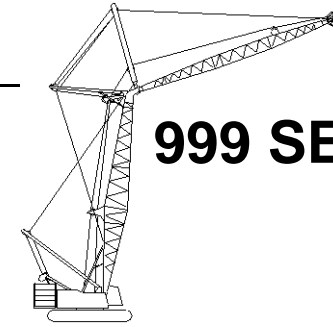
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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.



999 SERIES 2

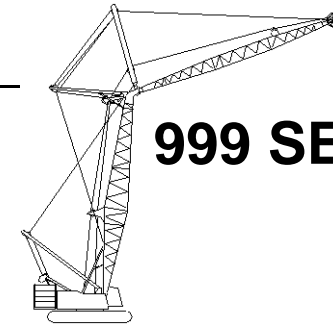
Liftcrane Luffing Jib Capacities

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

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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	42,300 *	62.9	248.8	44,200										100
105	44.2	228.5	35,000 *	50.9	237.8	38,600 *	54.7	241.7	40,800 *	60.4	246.1	41,600										105
110	40.9	223.1	33,700 *	48.0	233.5	37,200 *	51.9	238.0	39,300 *	57.8	243.1	39,200										110
115	37.4	216.9	32,600 *	45.0	228.7	35,800 *	49.0	233.9	37,900 *	55.2	239.8	37,000										115
120	33.7	210.0	31,500 *	41.8	223.5	34,600 *	46.1	229.3	36,500 *	52.5	236.2	35,100										120
125	29.4	201.8	30,500 *	38.4	217.5	33,400 *	42.9	224.2	35,200 *	49.6	232.1	33,300	55.6	236.7	30,700							125
130	24.6	192.0	29,600 *	34.7	210.8	32,200 *	39.6	218.5	33,900 *	46.7	227.6	31,600	52.9	233.1	29,200							130
135	18.6	179.4	28,800 *	30.6	203.0	31,200 *	36.0	212.1	32,500	43.6	222.7	30,100	50.1	229.2	27,800							135
140	9.5	159.4	25,700 *	25.9	193.6	30,200 *	32.0	204.7	31,000	40.3	217.1	28,700	47.1	224.8	26,500							140
145				20.3	181.9	29,400 *	27.6	195.9	29,600	36.7	210.8	27,400	44.1	219.9	25,300	50.3	225.0	23,100				145
150				12.5	164.9	28,600 *	22.4	185.2	28,300	32.9	203.6	26,200	40.8	214.4	24,100	47.4	220.6	22,100				150
155							15.6	170.7	27,100	28.6	195.2	25,100	37.3	208.2	23,100	44.3	215.8	21,100				155
160										23.5	185.0	24,000	33.5	201.2	22,100	41.1	210.3	20,200	47.4	215.2	18,400	160
170										6.4	147.6	22,000	24.4	183.1	20,300	33.8	197.3	18,500	41.0	204.9	16,800	170
180													8.9	149.6	18,600	24.8	179.4	17,000	33.8	191.8	15,500	180
190																10.0	147.5	15,700	24.8	174.0	14,200	190
200																			9.9	142.0	13,000	200

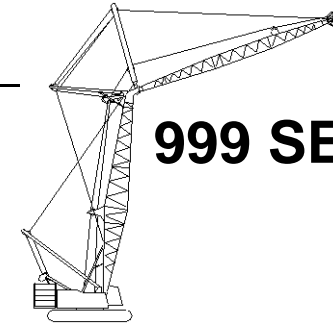
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

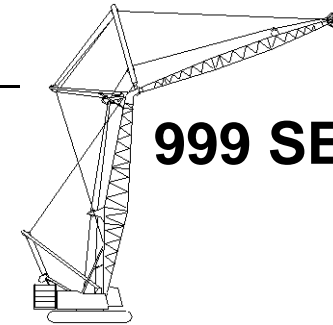
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999 SERIES 2

130 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.2	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	39,900 *										105
110	45.4	237.7	30,400 *	51.6	246.6	33,800 *	55.0	250.4	35,800 *	60.4	254.8	38,600 *										110
115	42.5	232.5	29,200 *	49.0	242.4	32,400 *	52.5	246.8	34,300 *	58.0	251.8	36,700 *										115
120	39.4	226.7	28,100 *	46.2	237.8	31,200 *	49.9	242.8	33,000 *	55.6	248.5	34,700 *										120
125	36.0	220.3	27,100 *	43.3	232.8	30,000 *	47.2	238.3	31,700 *	53.0	244.9	32,900 *										125
130	32.4	212.9	26,000 *	40.2	227.2	28,800 *	44.3	233.5	30,500 *	50.4	241.0	31,300 *	55.9	245.4	28,800 *							130
135	28.3	204.4	25,100 *	36.9	220.9	27,700 *	41.3	228.1	29,400 *	47.7	236.6	29,800 *	53.4	241.9	27,400 *							135
140	23.7	194.1	24,300 *	33.4	213.8	26,700 *	38.1	222.0	28,200 *	44.9	231.9	28,400 *	50.8	238.0	26,100 *							140
145	17.9	181.0	23,600 *	29.4	205.6	25,700 *	34.6	215.2	27,200 *	41.9	226.6	27,100 *	48.1	233.7	24,900 *							145
150	9.2	160.2	23,000 *	25.0	195.9	24,800 *	30.8	207.5	26,200 *	38.8	220.7	25,900 *	45.3	229.0	23,800 *	51.0	233.8	21,700 *				150
155				19.6	183.7	24,100 *	26.6	198.3	25,300 *	35.4	214.1	24,800 *	42.4	223.8	22,700 *	48.4	229.6	20,700 *				155
160				12.0	166.0	23,400 *	21.6	187.1	24,500 *	31.6	206.5	23,700 *	39.2	218.0	21,700 *	45.6	224.9	19,800 *				160
170										22.7	187.0	21,800 *	32.2	204.1	20,000 *	39.5	214.0	18,200 *	45.5	219.5	16,400 *	170
180										6.2	148.2	20,000 *	23.5	185.2	18,400 *	32.5	200.2	16,700 *	39.5	208.5	15,100 *	180
190													8.6	150.4	16,900 *	23.9	181.6	15,400 *	32.5	194.8	13,800 *	190
200																9.6	148.4	14,100 *	23.8	176.1	12,700 *	200
210																			9.6	142.8	11,700 *	210



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

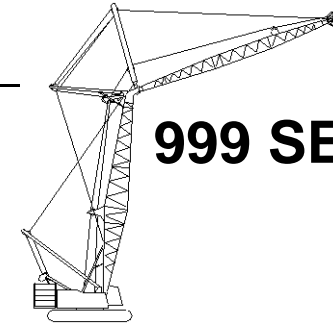
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The Scope of ANSI B30.5

130 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	35,300 *										110
115	46.5	246.8	26,500 *	52.2	255.4	29,600 *	55.4	259.2	31,400 *	60.4	263.4	34,100 *										115
120	43.8	241.8	25,400 *	49.7	251.3	28,400 *	53.0	255.5	30,200 *	58.1	260.5	32,800 *										120
125	41.0	236.3	24,400 *	47.2	246.9	27,200 *	50.6	251.6	28,900 *	55.9	257.2	31,600 *										125
130	38.0	230.2	23,400 *	44.5	242.0	26,000 *	48.1	247.3	27,700 *	53.5	253.7	30,400 *										130
135	34.8	223.5	22,400 *	41.7	236.7	25,000 *	45.5	242.6	26,600 *	51.1	249.8	29,200 *	56.2	254.1	27,300							135
140	31.3	215.8	21,500 *	38.8	230.8	23,900 *	42.7	237.5	25,500 *	48.6	245.6	28,000 *	53.9	250.6	26,000							140
145	27.4	206.9	20,700 *	35.6	224.2	23,000 *	39.8	231.8	24,400 *	46.0	241.0	26,900 *	51.5	246.8	24,800							145
150	22.9	196.2	19,900 *	32.2	216.8	22,000 *	36.7	225.4	23,400 *	43.3	235.9	25,800	49.0	242.7	23,700							150
155	17.3	182.5	19,300 *	28.4	208.2	21,200 *	33.4	218.3	22,400 *	40.4	230.3	24,700	46.4	238.1	22,600	51.7	242.6	20,600				155
160	8.8	161.0	18,700 *	24.1	198.1	20,400 *	29.8	210.2	21,600 *	37.4	224.1	23,700	43.7	233.1	21,700	49.2	238.5	19,700				160
170				11.6	167.0	19,000 *	20.8	189.0	20,000 *	30.5	209.3	21,700	37.9	221.5	19,900	43.9	229.0	18,100				170
180										21.9	189.0	20,000	31.1	207.0	18,300	38.1	217.5	16,600	43.9	223.6	15,000	180
190										6.0	148.7	18,500	22.7	187.2	16,900	31.4	203.1	15,300	38.1	212.1	13,800	190
200													8.3	151.2	15,600	23.1	183.7	14,100	31.4	197.6	12,700	200
210																9.3	149.2	13,000	23.0	178.2	11,700	210
220																			9.2	143.6	10,700	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

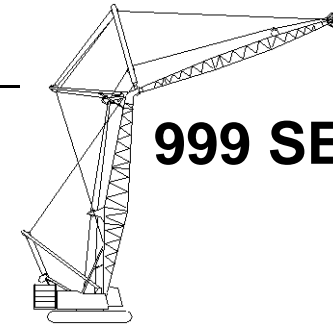
Liftcrane Luffing Jib Capacities

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

130 Ft. Boom, 160 Ft. Jib

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

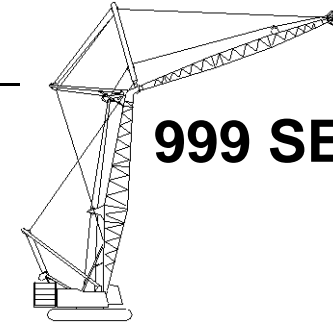
130 Ft. Boom, 170 Ft. Jib

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	25,900 *										125
130	45.9	260.1	18,400 *	51.0	269.0	20,900 *	53.9	273.0	22,400 *	58.4	277.8	24,800 *										130
135	43.5	255.0	17,500 *	48.8	264.8	19,900 *	51.8	269.2	21,300 *	56.4	274.6	23,700 *										135
140	41.0	249.5	16,600 *	46.5	260.2	18,900 *	49.6	265.1	20,300 *	54.3	271.1	22,600 *										140
145	38.4	243.5	15,800 *	44.2	255.3	17,900 *	47.3	260.7	19,300 *	52.2	267.4	21,500 *	56.7	271.5	23,500 *							145
150	35.6	236.9	15,000 *	41.7	249.9	17,000 *	45.0	255.9	18,300 *	50.0	263.4	20,500 *	54.6	268.1	22,500 *							150
155	32.6	229.5	14,300 *	39.1	244.0	16,200 *	42.6	250.7	17,400 *	47.8	259.0	19,500 *	52.5	264.4	21,500 *							155
160	29.3	221.2	13,500 *	36.3	237.6	15,400 *	40.0	245.0	16,600 *	45.5	254.3	18,600 *	50.4	260.4	20,600 *							160
170	21.5	200.1	12,000 *	30.2	222.3	13,900 *	34.4	231.8	14,900 *	40.5	243.6	16,800 *	45.8	251.4	18,700 *	50.5	256.2	17,400				170
180	8.3	162.5	10,500 *	22.6	202.2	12,300 *	27.9	215.3	13,500 *	35.0	230.7	15,200 *	40.9	240.8	17,000 *	46.0	247.3	16,000				180
190				10.9	169.0	10,700 *	19.5	192.6	11,800 *	28.7	214.6	13,700 *	35.5	228.1	15,300 *	41.1	236.8	14,700	46.0	241.9	13,100	190
200										20.6	192.7	12,000 *	29.2	212.3	13,900 *	35.7	224.2	13,500	41.1	231.3	12,000	200
210										5.6	149.7	10,500 *	21.3	191.1	12,100 *	29.5	208.5	12,500	35.7	218.7	11,100	210
220													7.8	152.6	10,600 *	21.6	187.6	11,500	29.4	203.1	10,200	220
230																8.8	150.8	10,600	21.6	182.1	9,400	230
240																			8.7	145.2	8,600	240

Liftcrane Luffing Jib Capacities

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

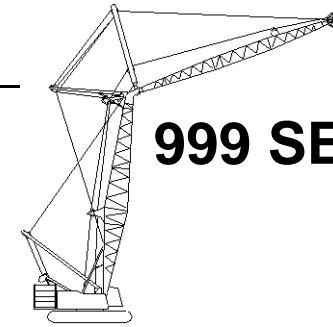
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	62.0	209.7	98,000 *b																			45
50	57.3	206.8	93,900 *b																			50
55	52.2	203.2	90,300 *b																			55
60	46.9	199.0	87,100 *	59.3	207.0	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

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

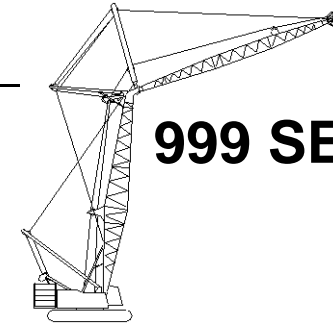
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

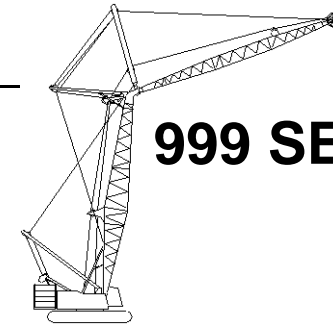
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds		
45	68.6	231.7	79,400 *b																			45	
50	65.1	229.6	76,100 *b																			50	
55	61.6	227.0	73,100 *	70.1	231.4	82,000 *b																55	
60	57.9	224.1	70,200 *	66.6	229.4	78,800 *b																60	
65	54.0	220.7	67,500 *	63.1	227.0	75,800 *b																65	
70	50.0	216.8	65,100 *	59.5	224.3	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

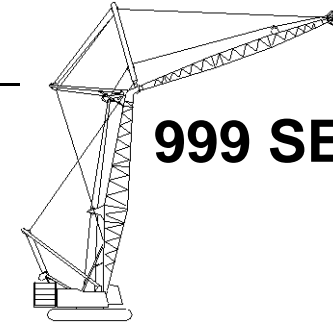
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

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.



999 SERIES 2

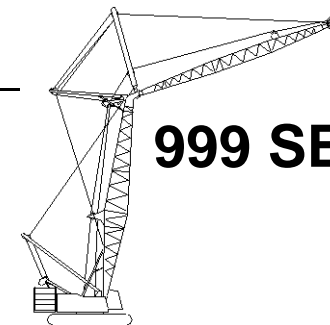
Liftcrane Luffing Jib Capacities

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

140 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	72.6	252.9	69,300 *b																			45
50	69.9	251.2	66,800 *b																			50
55	67.1	249.2	64,500 *																			55
60	64.2	246.9	62,200 *																			60
65	61.3	244.4	60,000 *	68.3	248.9	66,300 *																65
70	58.3	241.5	57,800 *	65.4	246.8	64,200 *																70
75	55.1	238.2	55,700 *	62.6	244.4	62,000 *	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

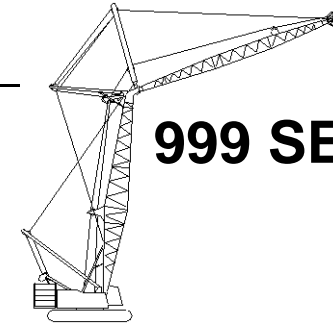
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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	51,500 *													85
90	49.5	239.2	42,300 *	56.8	247.2	47,000 *	60.8	250.3	49,700 *													90
95	46.3	234.7	40,800 *	53.9	243.7	45,200 *	58.1	247.4	47,900 *													95
100	42.9	229.6	39,300 *	50.9	239.9	43,600 *	55.2	244.1	46,200 *	61.9	248.5	43,700										100
105	39.3	223.9	38,000 *	47.7	235.6	42,000 *	52.2	240.4	44,500	59.1	245.7	41,100										105
110	35.4	217.3	36,800 *	44.4	230.7	40,600 *	49.2	236.3	42,000	56.3	242.5	38,700										110
115	31.0	209.7	35,700 *	40.9	225.3	39,200 *	45.9	231.8	39,700	53.4	239.0	36,600										115
120	26.0	200.5	34,400 *	37.1	219.1	37,900 *	42.5	226.6	37,600	50.3	235.1	34,700	57.2	239.7	31,800							120
125	19.9	188.7	32,700 *	32.9	212.0	36,700 *	38.8	220.8	35,700	47.2	230.7	32,900	54.3	236.3	30,100							125
130	10.8	170.4	28,900 *	28.3	203.6	35,600	34.9	214.1	34,000	43.8	225.8	31,300	51.3	232.5	28,600							130
135				22.7	193.1	33,900	30.4	206.3	32,300	40.2	220.2	29,800	48.2	228.3	27,200							135
140				15.4	178.6	32,300	25.3	196.9	30,800	36.4	213.9	28,400	44.9	223.6	26,000	52.1	228.6	23,600				140
145							19.0	184.6	29,400	32.2	206.6	27,100	41.4	218.2	24,800	49.0	224.5	22,500				145
150							9.1	164.6	28,100	27.3	197.8	25,900	37.7	212.2	23,700	45.7	219.9	21,500				150
155										21.6	186.8	24,800	33.6	205.2	22,600	42.3	214.7	20,500				155
160										13.7	171.1	23,700	29.0	196.9	21,700	38.6	208.9	19,600	46.2	214.8	17,700	160
170													16.6	173.1	19,900	30.1	194.2	18,000	39.2	204.0	16,200	170
180																18.5	172.1	16,500	30.8	189.7	14,800	180
190																			19.6	168.4	13,600	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

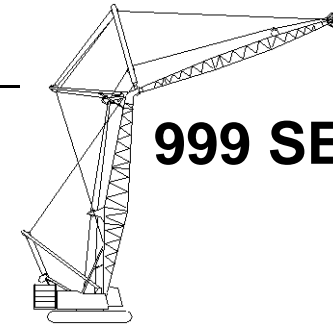
Liftcrane Luffing Jib Capacities

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

140 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.4	273.7	52,800 *b																			45
50	73.1	272.3	51,800 *																			50
55	70.7	270.6	50,900 *																			55
60	68.4	268.8	49,200 *																			60
65	66.0	266.7	47,400 *																			65
70	63.6	264.3	45,600 *	69.4	268.5	50,300 *																70
75	61.1	261.7	43,900 *	67.0	266.5	48,600 *																75
80	58.5	258.8	42,300 *	64.6	264.2	46,900 *																80
85	55.9	255.6	40,700 *	62.2	261.7	45,200 *	65.7	264.0	47,500 *													85
90	53.2	252.0	39,200 *	59.6	258.9	43,600 *	63.3	261.7	45,900 *													90
95	50.4	248.1	37,800 *	57.1	255.8	42,000 *	60.8	259.0	44,300 *													95
100	47.5	243.7	36,400 *	54.4	252.4	40,500 *	58.2	256.1	42,800 *													100
105	44.4	238.9	35,100 *	51.6	248.7	38,900 *	55.6	252.8	41,300 *	61.7	257.2	40,800										105
110	41.2	233.5	33,800 *	48.8	244.5	37,500 *	52.9	249.2	39,800 *	59.2	254.4	38,400										110
115	37.7	227.4	32,700 *	45.8	239.9	36,200 *	50.1	245.2	38,400 *	56.6	251.2	36,300										115
120	33.9	220.5	31,600 *	42.6	234.7	34,900 *	47.1	240.8	37,000 *	53.9	247.8	34,400										120
125	29.8	212.4	30,600 *	39.2	229.0	33,700 *	44.0	235.9	35,500	51.1	243.9	32,600	57.4	248.4	29,800							125
130	25.0	202.7	29,700 *	35.6	222.4	32,600 *	40.8	230.4	33,800	48.2	239.7	31,000	54.8	245.0	28,400							130
135	19.1	190.4	28,700 *	31.6	214.9	31,500 *	37.3	224.2	32,100	45.2	235.0	29,500	52.0	241.3	27,000							135
140	10.4	171.4	26,200 *	27.1	206.0	30,500 *	33.4	217.2	30,700	42.0	229.7	28,200	49.2	237.2	25,700							140
145				21.8	195.0	29,700 *	29.2	209.0	29,300	38.6	223.8	26,900	46.2	232.7	24,500	52.7	237.4	22,200				145
150				14.8	179.9	29,000 *	24.3	199.1	28,000	34.9	217.1	25,700	43.0	227.6	23,400	49.9	233.4	21,200				150
155							18.2	186.2	26,800	30.9	209.4	24,600	39.7	221.9	22,400	46.9	229.0	20,300				155
160							8.8	165.4	25,600	26.3	200.2	23,500	36.1	215.5	21,400	43.8	224.0	19,400				160
170										13.1	172.3	21,600	27.8	199.5	19,700	37.0	212.3	17,800	44.3	219.0	15,900	170
180													15.9	174.6	18,100	28.9	196.9	16,300	37.6	207.4	14,600	180
190																17.8	173.7	15,000	29.6	192.4	13,400	190
200																			18.8	170.1	12,300	200



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

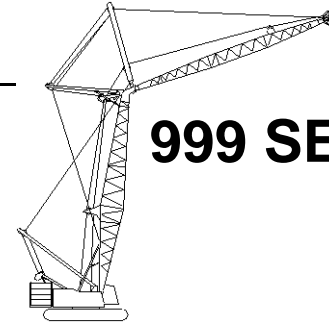
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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	37,700 *													105
110	45.7	248.0	30,500 *	52.3	257.5	34,100 *	55.9	261.5	36,200 *	61.6	265.9	38,100										110
115	42.7	242.9	29,300 *	49.6	253.4	32,800 *	53.4	257.9	34,800 *	59.2	263.0	35,900										115
120	39.6	237.2	28,200 *	46.9	248.9	31,500 *	50.8	254.1	33,500 *	56.8	259.9	34,000										120
125	36.3	230.7	27,200 *	44.0	244.0	30,300 *	48.1	249.8	32,200 *	54.4	256.5	32,300										125
130	32.7	223.5	26,200 *	41.0	238.5	29,100 *	45.3	245.1	31,000 *	51.8	252.7	30,700	57.6	257.1	27,900							130
135	28.6	215.0	25,200 *	37.7	232.5	28,000 *	42.3	239.9	29,800 *	49.1	248.6	29,200	55.1	253.7	26,600							135
140	24.0	204.9	24,400 *	34.3	225.6	27,000 *	39.2	234.1	28,700 *	46.4	244.1	27,800	52.6	250.1	25,300							140
145	18.4	192.0	23,700 *	30.4	217.7	26,000 *	35.9	227.6	27,600 *	43.5	239.0	26,500	50.0	246.1	24,100							145
150	10.0	172.3	23,100 *	26.1	208.4	25,100 *	32.2	220.1	26,600 *	40.4	233.5	25,400	47.3	241.7	23,000							150
155				21.0	196.9	24,300 *	28.1	211.5	25,700 *	37.1	227.3	24,300	44.4	236.8	22,000	50.6	242.2	19,800				155
160				14.2	181.2	23,600 *	23.4	201.2	24,800 *	33.6	220.2	23,200	41.4	231.5	21,100	47.9	237.9	19,000				160
170							8.5	166.2	23,300	25.3	202.5	21,300	34.8	218.7	19,300	42.2	228.0	17,400				170
180										12.7	173.4	19,600	26.8	201.9	17,800	35.6	215.6	16,000	42.6	223.0	14,200	180
190													15.4	175.9	16,400	27.8	199.4	14,700	36.1	210.8	13,000	190
200																17.1	175.2	13,500	28.5	195.0	12,000	200
210																			18.1	171.7	11,000	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

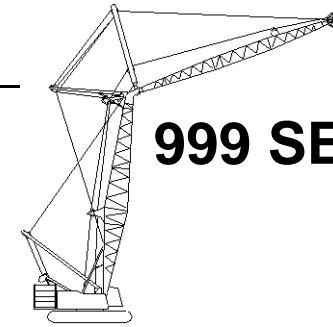
Liftcrane Luffing Jib Capacities

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

140 Ft. Boom, 150 Ft. Jib

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

140 Ft. Boom, 160 Ft. Jib

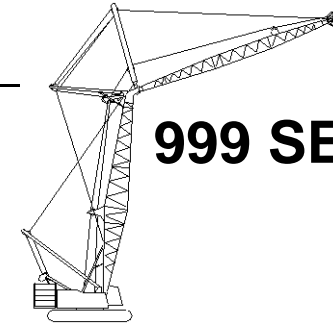
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing 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	30,100 *										120
125	45.1	261.3	21,600 *	51.0	271.1	24,500 *	54.3	275.4	26,300 *	59.3	280.3	29,000 *										125
130	42.6	256.1	20,600 *	48.7	266.9	23,400 *	52.0	271.7	25,200 *	57.2	277.3	27,800 *										130
135	39.8	250.4	19,700 *	46.2	262.3	22,400 *	49.7	267.6	24,000 *	55.1	273.9	26,700 *										135
140	37.0	244.1	18,800 *	43.7	257.3	21,300 *	47.3	263.2	22,900 *	52.9	270.3	25,600 *	57.9	274.4	24,800							140
145	33.9	237.1	17,900 *	41.0	251.8	20,400 *	44.8	258.4	21,900 *	50.6	266.3	24,500 *	55.8	271.1	23,600							145
150	30.5	229.1	17,100 *	38.2	245.7	19,400 *	42.2	253.1	20,900 *	48.2	262.0	23,400 *	53.6	267.6	22,600							150
155	26.8	219.9	16,400 *	35.2	239.0	18,500 *	39.5	247.3	19,900 *	45.8	257.4	22,400 *	51.3	263.8	21,600							155
160	22.5	209.0	15,700 *	32.0	231.5	17,700 *	36.6	240.9	19,000 *	43.2	252.3	21,400 *	49.0	259.6	20,600							160
170	9.4	174.0	14,500 *	24.4	212.9	16,200 *	30.1	225.7	17,400 *	37.7	240.6	19,500 *	44.0	250.1	18,900	49.6	255.8	16,900				170
180				13.3	183.6	14,900 *	21.9	205.2	15,900 *	31.4	226.0	17,800 *	38.6	238.7	17,400	44.7	246.5	15,500				180
190							7.9	167.6	14,700 *	23.6	206.8	16,300 *	32.5	224.7	16,000	39.3	235.4	14,200	45.0	241.4	12,500	190
200										11.8	175.6	15,000 *	25.0	206.5	14,800	33.3	221.7	13,100	39.7	230.5	11,500	200
210													14.4	178.5	13,700	26.0	204.2	12,100	33.7	217.1	10,600	210
220																16.0	178.1	11,100	26.6	199.9	9,700	220
230																			16.9	174.8	8,900	230



Liftcrane Luffing Jib Capacities

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

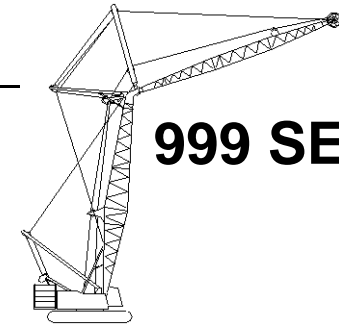
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing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



Liftcrane Luffing Jib Capacities

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

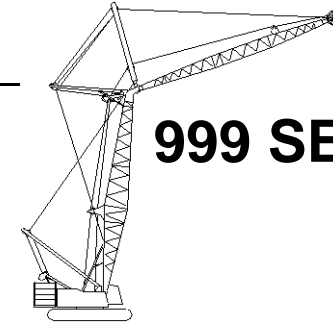
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

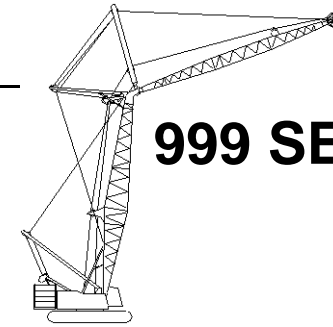
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	66.0	231.0	87,300 *b																			45
50	62.0	228.6	83,700 *b																			50
55	57.9	225.7	80,400 *b																			55
60	53.6	222.3	77,300 *	64.5	228.9	87,500 *b																60
65	49.0	218.2	74,400 *	60.4	226.3	84,200 *b	66.6	228.8	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

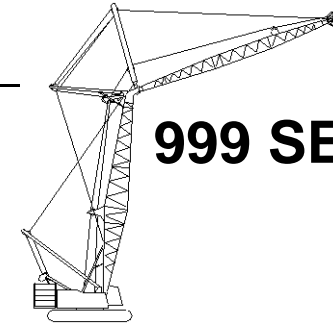
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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.



999 SERIES 2

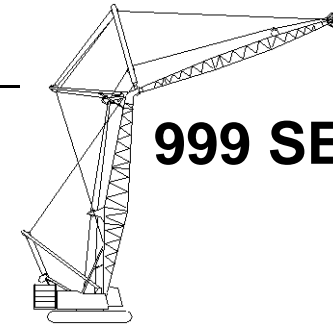
Liftcrane Luffing Jib Capacities

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

150 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	71.0	252.5	73,800 *b																			45
50	68.0	250.6	70,700 *b																			50
55	64.8	248.4	67,800 *																			55
60	61.6	245.9	65,100 *	69.8	250.5	73,400 *b																60
65	58.3	243.0	62,500 *	66.7	248.6	70,600 *b																65
70	54.9	239.7	60,100 *	63.6	246.2	67,900 *																70
75	51.3	235.9	57,800 *	60.3	243.6	65,400 *	65.3	246.3	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

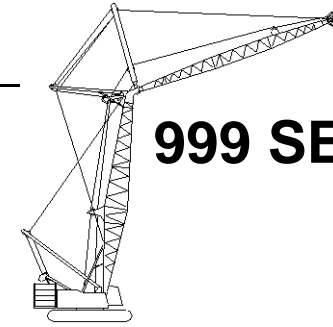
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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	64,900 *													75
80	52.1	244.7	53,600 *	60.3	252.2	60,100 *	64.9	255.0	62,100 *													80
85	48.8	240.6	51,700 *	57.3	249.2	58,000 *	61.9	252.5	57,600 *													85
90	45.2	235.9	50,000 *	54.1	245.8	56,000 *	58.9	249.6	53,700 *													90
95	41.4	230.6	47,200 *	50.8	242.0	52,700 *	55.9	246.4	50,200 *													95
100	37.3	224.5	44,300 *	47.4	237.6	49,500 *	52.6	242.8	47,100 *	60.6	248.2	43,200 *										100
105	32.7	217.4	41,600 *	43.7	232.7	46,600 *	49.3	238.8	44,300 *	57.6	245.2	40,600 *										105
110	27.6	208.8	39,200 *	39.8	227.1	43,900 *	45.8	234.2	41,800 *	54.4	241.8	38,300 *										110
115	21.3	197.8	37,100 *	35.6	220.6	41,600 *	42.0	229.0	39,600 *	51.1	238.0	36,200 *										115
120	12.2	181.1	33,600 *	30.8	213.0	39,400 *	38.0	223.1	37,500 *	47.7	233.8	34,300 *	56.0	239.4	31,200 *							120
125				25.3	203.6	37,400 *	33.5	216.1	35,600 *	44.1	228.9	32,600 *	52.7	235.8	29,600 *							125
130				18.2	191.1	35,600 *	28.4	207.8	33,900 *	40.2	223.4	31,000 *	49.4	231.8	28,100 *							130
135				5.5	167.3	31,900 *	22.3	197.2	32,200 *	36.0	217.0	29,500 *	45.9	227.2	26,800 *							135
140							14.0	182.0	30,700 *	31.3	209.5	28,100 *	42.1	222.0	25,500 *	50.8	228.3	22,900 *				140
145										25.8	200.3	26,800 *	38.1	216.1	24,300 *	47.3	223.9	21,900 *				145
150										19.0	188.2	25,600 *	33.6	209.2	23,300 *	43.7	219.0	20,900 *				150
155										7.7	167.1	24,500 *	28.6	200.9	22,200 *	39.8	213.4	20,000 *				155
160													22.6	190.5	21,300 *	35.5	206.9	19,100 *	44.8	214.4	17,000 *	160
170																25.2	189.8	17,500 *	36.8	202.8	15,500 *	170
180																5.1	152.8	16,000 *	27.0	186.7	14,200 *	180
190																		10.8	157.5	13,000 *		190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

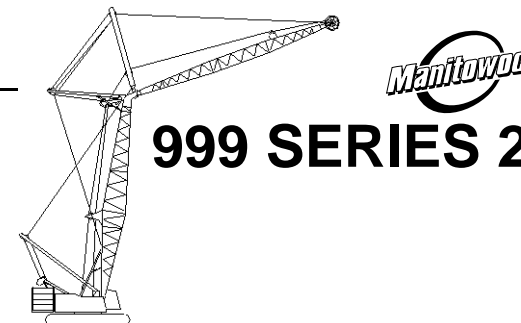
Liftcrane Luffing Jib Capacities

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

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	51,900 *													85
90	49.8	249.5	42,300 *	57.5	257.9	47,400 *	61.8	261.1	50,200 *													90
95	46.6	245.0	40,800 *	54.6	254.5	45,600 *	59.0	258.3	48,500 *													95
100	43.2	240.0	39,400 *	51.6	250.8	44,000 *	56.2	255.1	46,800 *													100
105	39.6	234.3	38,100 *	48.5	246.6	42,400 *	53.3	251.6	44,000 *	60.5	256.9	40,200 *										105
110	35.6	227.8	36,900 *	45.2	241.9	41,000 *	50.2	247.7	41,500 *	57.8	253.9	37,900 *										110
115	31.3	220.3	35,500 *	41.8	236.6	39,600 *	47.1	243.3	39,200 *	54.9	250.6	35,800 *										115
120	26.4	211.2	33,600 *	38.1	230.7	38,300 *	43.7	238.3	37,200 *	51.9	246.8	33,900 *										120
125	20.3	199.6	32,000 *	34.0	223.8	37,000 *	40.1	232.8	35,300 *	48.8	242.7	32,200 *	56.3	248.1	29,200 *							125
130	11.7	182.2	29,600 *	29.5	215.7	35,400 *	36.3	226.4	33,600 *	45.6	238.1	30,600 *	53.4	244.6	27,700 *							130
135				24.2	205.8	33,700 *	32.0	219.0	32,000 *	42.1	232.9	29,100 *	50.3	240.6	26,400 *							135
140				17.4	192.6	32,100 *	27.2	210.2	30,500 *	38.4	227.0	27,800 *	47.2	236.3	25,100 *							140
145				5.3	167.8	28,300 *	21.4	199.2	29,100 *	34.4	220.2	26,500 *	43.8	231.3	24,000 *	51.6	237.1	21,500 *				145
150							13.4	183.2	27,800 *	29.9	212.2	25,300 *	40.3	225.8	22,900 *	48.5	232.9	20,500 *				150
155										24.7	202.6	24,200 *	36.4	219.5	21,900 *	45.2	228.2	19,600 *				155
160										18.2	189.8	23,200 *	32.2	212.1	20,900 *	41.7	222.9	18,700 *				160
170													21.6	192.4	19,200 *	33.9	210.0	17,100 *	42.8	218.4	15,100 *	170
180																24.1	192.0	15,700 *	35.2	206.0	13,900 *	180
190																4.9	153.2	14,400 *	25.8	189.0	12,700 *	190
200																			10.3	158.4	11,600 *	200



Liftcrane Luffing Jib Capacities

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

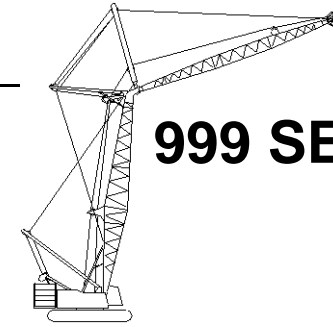
999 SERIES 2

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	46,200 *													90
95	50.6	258.4	37,800 *	57.7	266.5	42,300 *	61.6	269.8	44,700 *													95
100	47.7	254.0	36,500 *	55.0	263.2	40,800 *	59.1	267.0	43,200 *													100
105	44.6	249.2	35,200 *	52.3	259.5	39,300 *	56.5	263.8	41,700 *	63.0	268.2	39,900										105
110	41.4	243.9	33,900 *	49.5	255.5	37,900 *	53.8	260.3	40,300 *	60.5	265.5	37,600										110
115	37.9	237.8	32,800 *	46.5	251.0	36,500 *	51.0	256.5	38,800 *	57.9	262.6	35,600										115
120	34.2	231.0	31,700 *	43.4	246.0	35,300 *	48.1	252.2	37,000	55.3	259.3	33,700										120
125	30.1	223.0	30,700 *	40.1	240.4	34,100 *	45.1	247.5	35,100	52.6	255.6	32,000										125
130	25.3	213.5	29,500 *	36.5	234.0	32,900 *	41.9	242.2	33,400	49.7	251.6	30,400	56.6	256.8	27,400							130
135	19.5	201.4	28,100 *	32.6	226.8	31,800 *	38.5	236.3	31,800	46.8	247.1	28,900	53.9	253.3	26,100							135
140	11.2	183.2	26,900 *	28.3	218.3	30,800 *	34.8	229.6	30,300	43.7	242.2	27,600	51.1	249.5	24,800							140
145				23.2	207.9	30,000 *	30.7	221.8	28,900	40.4	236.6	26,300	48.2	245.2	23,700							145
150				16.7	194.1	29,200	26.1	212.6	27,700	36.9	230.4	25,100	45.2	240.5	22,600	52.3	245.9	20,200				150
155				5.1	168.2	25,800 *	20.5	201.0	26,500	33.0	223.2	24,000	42.0	235.3	21,600	49.4	241.8	19,300				155
160							12.9	184.3	25,300	28.7	214.9	23,000	38.6	229.4	20,700	46.5	237.3	18,400				160
170										17.5	191.4	21,100	30.9	215.0	19,000	40.0	226.6	16,900	47.4	232.5	14,800	170
180													20.7	194.3	17,500	32.6	213.0	15,500	41.0	222.2	13,600	180
190																23.1	194.1	14,300	33.8	209.1	12,500	190
200																4.7	153.7	13,100	24.8	191.3	11,400	200
210																			9.9	159.3	10,500	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

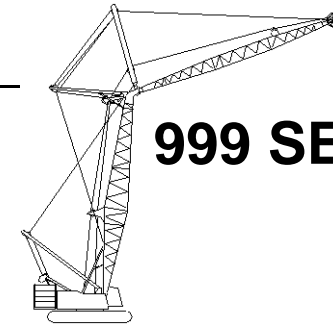
Liftcrane Luffing Jib Capacities

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

150 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	74.5	292.8	47,600 *																			50
55	72.3	291.3	46,800 *																			55
60	70.2	289.6	45,100 *																			60
65	68.0	287.7	43,500 *																			65
70	65.7	285.5	41,900 *																			70
75	63.5	283.2	40,300 *	69.3	287.6	44,700 *																75
80	61.2	280.5	38,700 *	67.1	285.6	43,200 *																80
85	58.8	277.7	37,300 *	64.9	283.4	41,700 *																85
90	56.4	274.5	35,800 *	62.6	280.9	40,200 *	66.1	283.4	42,300 *													90
95	53.9	271.0	34,400 *	60.2	278.2	38,700 *	63.8	281.1	40,900 *													95
100	51.3	267.2	33,100 *	57.9	275.2	37,200 *	61.5	278.5	39,500 *													100
105	48.6	263.0	31,800 *	55.4	271.9	35,800 *	59.2	275.6	38,100 *													105
110	45.8	258.4	30,600 *	52.9	268.3	34,500 *	56.8	272.5	36,700 *	62.8	276.9	37,200										110
115	42.9	253.2	29,400 *	50.3	264.3	33,100 *	54.3	269.1	35,300 *	60.5	274.2	35,200										115
120	39.8	247.6	28,300 *	47.6	260.0	31,900 *	51.7	265.3	34,000 *	58.1	271.2	33,300										120
125	36.5	241.2	27,300 *	44.7	255.2	30,600 *	49.1	261.2	32,700 *	55.6	268.0	31,600										125
130	32.9	234.0	26,300 *	41.7	249.9	29,400 *	46.3	256.6	31,500 *	53.1	264.4	30,000										130
135	28.9	225.6	25,300 *	38.6	243.9	28,300 *	43.4	251.6	30,300 *	50.5	260.4	28,500	56.8	265.5	25,700							135
140	24.4	215.7	24,500 *	35.1	237.3	27,300 *	40.3	246.0	29,200 *	47.8	256.1	27,200	54.4	262.0	24,400							140
145	18.8	203.1	23,800 *	31.4	229.6	26,300 *	37.0	239.7	28,100 *	45.0	251.4	25,900	51.8	258.3	23,300							145
150	10.8	184.2	23,200 *	27.2	220.7	25,400 *	33.5	232.7	27,000 *	42.0	246.1	24,800	49.1	254.1	22,200							150
155				22.3	209.9	24,600 *	29.6	224.5	26,100 *	38.9	240.2	23,700	46.4	249.6	21,300	52.8	254.6	18,900				155
160				16.1	195.6	23,900 *	25.1	214.9	25,100	35.5	233.6	22,700	43.5	244.6	20,300	50.2	250.7	18,000				160
170							12.4	185.4	23,000	27.7	217.4	20,800	37.2	232.8	18,600	44.7	241.5	16,500				170
180										16.8	192.9	19,200	29.7	217.7	17,100	38.5	230.2	15,100	45.5	236.8	13,200	180
190													20.0	196.1	15,800	31.3	215.9	13,900	39.5	225.9	12,100	190
200																22.3	196.1	12,800	32.5	212.1	11,100	200
210																4.5	154.1	11,700	23.8	193.4	10,200	210
220																			9.6	160.1	9,300	220



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

150 Ft. Boom, 150 Ft. Jib

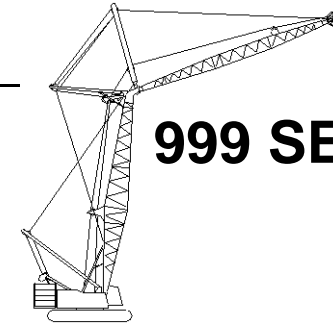
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing 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	35,100										115
120	44.2	262.5	25,600 *	51.0	273.2	29,000 *	54.7	277.8	31,100 *	60.4	282.8	33,200										120
125	41.4	257.1	24,600 *	48.5	268.9	27,800 *	52.3	274.1	29,800 *	58.2	279.9	31,500										125
130	38.4	251.1	23,600 *	45.8	264.3	26,700 *	49.8	270.0	28,600 *	55.9	276.6	29,900										130
135	35.2	244.4	22,600 *	43.1	259.2	25,600 *	47.3	265.6	27,400 *	53.6	273.1	28,400										135
140	31.8	236.9	21,700 *	40.2	253.6	24,600 *	44.6	260.8	26,300 *	51.2	269.3	27,100	57.1	274.1	24,300							140
145	27.9	228.2	20,900 *	37.2	247.4	23,600 *	41.8	255.5	25,300 *	48.7	265.1	25,900	54.7	270.7	23,200							145
150	23.5	217.8	20,100 *	33.9	240.4	22,600 *	38.9	249.6	24,200 *	46.1	260.5	24,700	52.4	267.1	22,100							150
155	18.2	204.7	19,400 *	30.3	232.4	21,700 *	35.7	243.0	23,300 *	43.4	255.4	23,600	49.9	263.0	21,200							155
160	10.4	185.1	18,900 *	26.3	223.1	20,900 *	32.3	235.6	22,300 *	40.5	249.9	22,600	47.4	258.6	20,200							160
170				15.6	197.0	19,500 *	24.3	217.1	20,700 *	34.2	236.8	20,800	41.9	248.5	18,600	48.4	255.3	16,400				170
180							12.0	186.5	19,300 *	26.7	219.8	19,100	35.9	236.1	17,100	43.1	245.5	15,000				180
190										16.3	194.4	17,700	28.7	220.3	15,700	37.1	233.6	13,800	43.9	240.9	12,000	190
200													19.3	197.8	14,500	30.3	218.6	12,700	38.1	229.4	11,000	200
210																21.5	198.0	11,700	31.4	215.0	10,100	210
220																4.3	154.4	10,800	23.0	195.5	9,300	220
230																			9.2	160.9	8,500	230



Liftcrane Luffing Jib Capacities

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

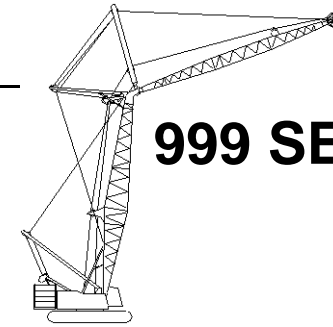
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999 SERIES 2

150 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	74.6	312.1	39,900 *																			55
60	72.7	310.7	38,400 *																			60
65	70.8	309.0	36,900 *																			65
70	68.9	307.2	35,400 *																			70
75	67.0	305.2	34,000 *																			75
80	65.0	303.0	32,600 *	70.1	307.1	36,400 *																80
85	63.0	300.5	31,200 *	68.2	305.2	35,000 *																85
90	61.0	297.9	29,900 *	66.2	303.1	33,700 *																90
95	59.0	295.0	28,600 *	64.3	300.8	32,400 *	67.3	303.0	34,200 *													95
100	56.8	291.8	27,300 *	62.3	298.3	31,000 *	65.3	300.8	32,900 *													100
105	54.7	288.4	26,100 *	60.2	295.5	29,700 *	63.4	298.4	31,700 *													105
110	52.4	284.7	25,000 *	58.1	292.6	28,500 *	61.3	295.8	30,400 *													110
115	50.2	280.7	23,800 *	56.0	289.3	27,200 *	59.3	292.9	29,200 *													115
120	47.8	276.4	22,800 *	53.8	285.8	26,000 *	57.2	289.8	28,000 *	62.4	294.2	30,600 *										120
125	45.3	271.7	21,700 *	51.6	282.0	24,900 *	55.0	286.5	26,800 *	60.4	291.5	29,500 *										125
130	42.7	266.5	20,700 *	49.2	277.8	23,700 *	52.8	282.8	25,600 *	58.3	288.5	28,400 *										130
135	40.0	260.8	19,800 *	46.8	273.4	22,700 *	50.5	278.9	24,500 *	56.2	285.3	27,300 *										135
140	37.2	254.5	18,900 *	44.3	268.4	21,600 *	48.2	274.6	23,400 *	54.0	281.8	26,200 *										140
145	34.1	247.6	18,000 *	41.7	263.1	20,700 *	45.7	269.9	22,300 *	51.8	278.1	25,100 *	57.2	282.8	22,800							145
150	30.7	239.7	17,200 *	38.9	257.2	19,700 *	43.1	264.8	21,300 *	49.5	274.0	24,000 *	55.1	279.5	21,800							150
155	27.0	230.6	16,500 *	36.0	250.7	18,800 *	40.5	259.2	20,300 *	47.1	269.5	23,000 *	52.9	275.8	20,800							155
160	22.8	219.9	15,800 *	32.8	243.4	18,000 *	37.6	253.1	19,400 *	44.6	264.6	22,000 *	50.6	271.9	19,900							160
170	10.1	186.0	14,600 *	25.4	225.4	16,400 *	31.3	238.5	17,700 *	39.2	253.5	20,000 *	45.8	262.9	18,200	51.5	268.3	16,000				170
180				15.1	198.3	15,100 *	23.5	219.2	16,200 *	33.1	239.8	18,300 *	40.5	252.3	16,700	46.8	259.7	14,600				180
190							11.6	187.5	14,900 *	25.8	222.1	16,700 *	34.7	239.3	15,400	41.6	249.4	13,400	47.5	254.9	11,600	190
200										15.7	195.8	15,400 *	27.8	222.8	14,200	35.9	236.9	12,400	42.5	244.8	10,600	200
210													18.7	199.5	13,100	29.3	221.3	11,400	36.8	232.8	9,700	210
220																20.8	199.9	10,500	30.4	217.7	8,900	220
230																4.2	154.8	9,600	22.3	197.5	8,200	230
240																			9.0	161.7	7,400	240



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

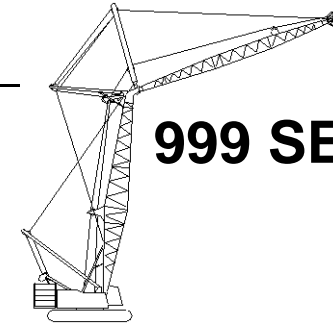
150 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	26,900 *										125
130	46.3	280.7	18,600 *	52.1	290.8	21,500 *	55.3	295.2	23,200 *	60.4	300.2	25,800 *										130
135	43.9	275.8	17,700 *	49.9	286.7	20,400 *	53.2	291.6	22,100 *	58.4	297.2	24,800 *										135
140	41.4	270.3	16,800 *	47.7	282.3	19,400 *	51.1	287.7	21,100 *	56.4	294.0	23,700 *										140
145	38.8	264.4	16,000 *	45.3	277.6	18,500 *	48.9	283.5	20,100 *	54.4	290.6	22,700 *										145
150	36.0	257.8	15,200 *	42.9	272.4	17,600 *	46.6	279.0	19,100 *	52.3	286.8	21,600 *	57.4	291.5	21,500							150
155	33.0	250.6	14,400 *	40.4	266.8	16,700 *	44.3	274.1	18,200 *	50.1	282.8	20,700 *	55.4	288.2	20,500							155
160	29.8	242.4	13,700 *	37.7	260.7	15,900 *	41.8	268.7	17,300 *	47.9	278.5	19,700 *	53.3	284.6	19,600							160
170	22.1	221.8	12,200 *	31.8	246.3	14,300 *	36.5	256.4	15,600 *	43.2	268.7	17,800 *	49.0	276.5	17,900							170
180	9.8	186.9	10,700 *	24.7	227.6	12,800 *	30.3	241.2	14,100 *	38.0	257.0	16,100 *	44.3	267.1	16,400	49.9	273.0	14,400				180
190				14.6	199.6	11,200 *	22.8	221.2	12,500 *	32.1	242.7	14,600 *	39.3	255.9	15,100	45.3	263.9	13,200				190
200							11.2	188.5	10,900 *	25.1	224.4	13,000 *	33.6	242.4	14,000	40.3	253.1	12,100	46.0	259.2	10,300	200
210										15.3	197.1	11,300 *	26.9	225.2	12,900	34.8	240.1	11,100	41.1	248.7	9,400	210
220													18.1	201.1	11,800 *	28.4	223.9	10,200	35.7	236.1	8,600	220
230																20.2	201.7	9,400	29.4	220.4	7,900	230
240																4.1	155.2	8,600	21.6	199.5	7,200	240
250																			8.7	162.5	6,600	250

Liftcrane Luffing Jib Capacities

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

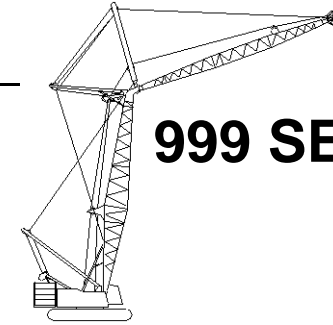
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 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	57.9	227.2	89,900 *b																			50
55	53.0	223.8	86,600 *b																			55
60	47.6	219.6	83,600 *	61.6	228.2	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

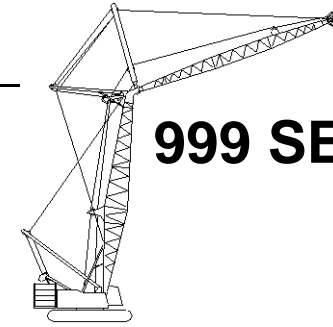
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

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.



999 SERIES 2

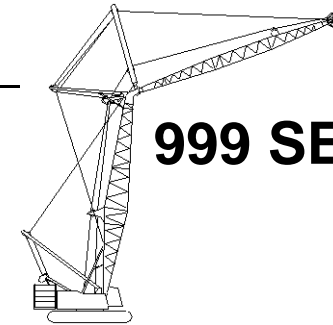
Liftcrane Luffing Jib Capacities

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

160 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	69.1	251.9	78,400 *b																			45
50	65.6	249.9	75,400 *b																			50
55	62.1	247.4	72,500 *b																			55
60	58.4	244.5	69,800 *	68.3	250.2	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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

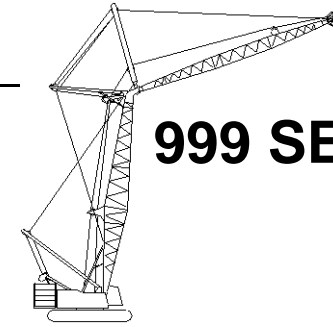
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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	65,600 *	66.4	256.9	66,600 b													75
80	47.8	242.0	55,700 *	57.8	251.2	63,200 *	63.3	254.6	61,400													80
85	43.8	237.1	53,800 *	54.4	247.9	60,100	60.0	251.8	57,000													85
90	39.5	231.5	50,500 *	50.8	244.0	56,000	56.6	248.8	53,100													90
95	34.7	224.9	47,400 *	46.9	239.7	52,300	53.1	245.2	49,600	62.3	250.6	45,100										95
100	29.3	216.9	44,500 *	42.9	234.7	49,100	49.5	241.2	46,600	59.1	247.8	42,300										100
105	22.8	206.7	41,800 *	38.5	228.8	46,200	45.6	236.7	43,800	55.7	244.6	39,800										105
110	13.7	191.5	37,400 *	33.6	222.0	43,600	41.4	231.4	41,300	52.1	241.0	37,500										110
115				28.0	213.6	41,200	36.9	225.2	39,100	48.4	236.8	35,500	57.9	242.3	31,900							115
120				21.1	202.7	39,000	31.8	217.9	37,000	44.4	232.0	33,600	54.4	239.0	30,200							120
125				10.7	185.1	37,000	25.8	208.8	35,100	40.2	226.5	31,900	50.8	235.2	28,700							125
130							18.2	196.5	33,400	35.5	220.1	30,300	47.0	230.8	27,200							130
135										30.2	212.4	28,800	43.0	225.8	25,900	52.9	231.9	23,000				135
140										23.9	202.6	27,500	38.6	220.0	24,700	49.2	227.8	21,900				140
145										15.4	188.6	26,200	33.7	213.2	23,500	45.3	223.2	20,900				145
150													28.2	204.8	22,500	41.1	217.9	19,900				150
155													21.3	194.0	21,400	36.5	211.7	19,000	47.1	218.8	16,700	155
160													11.0	176.7	20,500	31.4	204.3	18,200	43.1	213.8	15,900	160
170																17.6	182.3	16,600	33.8	201.2	14,500	170
180																			21.5	182.1	13,300	180

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

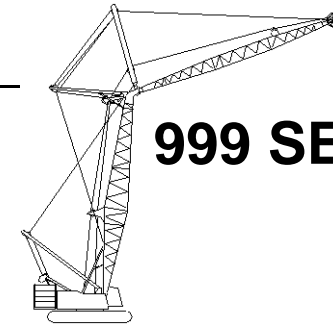
Liftcrane Luffing Jib Capacities

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

160 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	73.0	273.1	67,200 *b																			45
50	70.3	271.4	65,700 *b																			50
55	67.5	269.5	63,500 *																			55
60	64.6	267.3	61,500 *																			60
65	61.7	264.7	59,400 *	69.6	269.7	65,900 *b																65
70	58.7	261.9	57,500 *	66.8	267.7	64,000 *																70
75	55.6	258.6	55,500 *	64.0	265.4	62,100 *																75
80	52.4	255.0	53,500 *	61.0	262.8	60,200 *	65.9	265.6	61,400													80
85	49.0	250.9	51,700 *	58.0	259.9	58,300 *	63.0	263.2	56,900													85
90	45.5	246.3	48,800 *	54.9	256.6	55,900	60.0	260.5	53,000													90
95	41.7	241.0	45,900 *	51.6	252.9	52,300	56.9	257.4	49,600													95
100	37.6	235.0	43,200 *	48.2	248.7	49,100	53.8	254.0	46,500	62.1	259.3	42,300										100
105	33.1	227.9	40,700 *	44.6	243.9	46,200	50.5	250.1	43,800	59.1	256.5	39,700										105
110	28.0	219.5	38,400 *	40.8	238.5	43,600	47.0	245.7	41,300	56.1	253.3	37,500										110
115	21.8	208.7	36,500 *	36.6	232.2	41,200	43.3	240.7	39,100	52.9	249.7	35,400										115
120	13.0	192.7	34,300 *	32.0	224.9	39,100	39.4	235.1	37,000	49.5	245.7	33,600										120
125				26.7	216.0	37,100	35.1	228.5	35,200	46.0	241.2	31,900	55.0	247.7	28,600							125
130				20.1	204.5	35,300	30.3	220.7	33,400	42.3	236.0	30,300	51.7	244.0	27,200							130
135				10.2	186.0	33,600	24.6	211.1	31,800	38.2	230.1	28,800	48.3	239.8	25,900							135
140							17.3	198.0	30,300	33.8	223.2	27,500	44.7	235.0	24,700							140
145										28.8	215.0	26,200	40.9	229.7	23,500	50.2	236.7	20,900				145
150										22.8	204.6	25,100	36.7	223.4	22,500	46.8	232.3	19,900				150
155										14.7	189.9	24,000	32.1	216.1	21,500	43.1	227.3	19,000				155
160													26.8	207.3	20,500	39.1	221.5	18,200				160
170													10.5	177.7	18,800	29.9	207.0	16,700	41.0	217.6	14,500	170
180																16.7	183.8	15,300	32.2	204.2	13,300	180
190																20.5	184.0	12,200				190



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

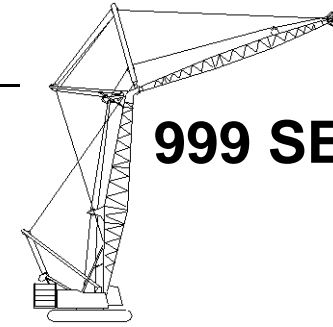
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

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	52,100 *													85
90	50.0	259.8	42,400 *	58.2	268.6	47,700 *	62.7	271.9	50,500 *													90
95	46.8	255.3	40,900 *	55.3	265.3	46,000 *	60.0	269.2	48,900 *													95
100	43.4	250.4	39,500 *	52.4	261.6	44,400 *	57.2	266.1	46,200 *													100
105	39.8	244.7	38,200 *	49.3	257.6	42,800 *	54.3	262.7	43,400 *	62.0	267.9	39,300 *										105
110	35.9	238.3	36,700 *	46.1	253.0	41,300 *	51.3	258.9	41,000 *	59.2	265.1	37,100 *										110
115	31.6	230.8	34,800 *	42.6	247.9	39,900 *	48.2	254.7	38,700 *	56.4	262.0	35,000 *										115
120	26.7	221.9	33,000 *	39.0	242.1	38,600 *	44.9	250.0	36,700 *	53.5	258.5	33,200 *										120
125	20.8	210.5	31,500 *	35.0	235.5	36,900 *	41.4	244.6	34,800 *	50.4	254.6	31,500 *										125
130	12.5	193.8	30,300 *	30.6	227.7	35,100 *	37.7	238.6	33,100 *	47.3	250.2	29,900 *	55.4	256.4	26,800 *							130
135				25.5	218.4	33,400 *	33.6	231.6	31,600 *	43.9	245.3	28,500 *	52.4	252.8	25,500 *							135
140				19.3	206.2	31,800 *	29.0	223.3	30,100 *	40.4	239.8	27,200 *	49.4	248.7	24,300 *							140
145				9.7	186.9	30,400 *	23.6	213.2	28,700 *	36.5	233.5	25,900 *	46.1	244.2	23,100 *							145
150							16.6	199.5	27,400 *	32.3	226.2	24,800 *	42.7	239.1	22,100 *	51.1	245.5	19,500 *				150
155										27.5	217.5	23,700 *	39.1	233.3	21,100 *	48.0	241.3	18,600 *				155
160										21.8	206.6	22,700 *	35.1	226.7	20,200 *	44.7	236.5	17,800 *				160
170													25.7	209.6	18,500 *	37.4	225.0	16,300 *	46.2	232.1	14,100 *	170
180													10.0	178.6	17,000 *	28.6	209.6	14,900 *	39.2	221.3	12,900 *	180
190																16.0	185.2	13,700 *	30.8	207.0	11,800 *	190
200																		10,800 *	19.6	185.7	10,800 *	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

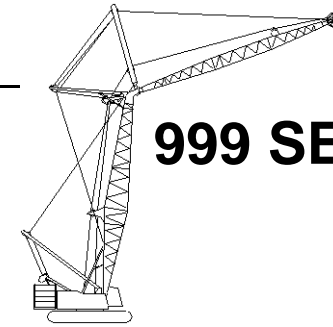
Liftcrane Luffing Jib Capacities

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

160 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	75.7	293.9	51,200 *b																			45
50	73.4	292.5	50,300 *b																			50
55	71.1	290.9	49,500 *																			55
60	68.7	289.0	48,600 *																			60
65	66.3	287.0	47,000 *																			65
70	63.9	284.6	45,400 *	70.6	289.2	49,800 *																70
75	61.4	282.1	43,800 *	68.2	287.3	48,700 *																75
80	58.9	279.2	42,200 *	65.8	285.2	47,200 *																80
85	56.3	276.0	40,700 *	63.4	282.8	45,600 *	67.4	285.2	47,800 *													85
90	53.6	272.5	39,200 *	60.9	280.2	44,100 *	65.0	283.0	46,400 *													90
95	50.8	268.6	37,800 *	58.3	277.2	42,500 *	62.5	280.6	45,000 *													95
100	47.9	264.3	36,500 *	55.7	274.0	41,100 *	60.0	277.8	43,600 *													100
105	44.8	259.6	35,200 *	53.0	270.4	39,600 *	57.4	274.8	42,100 *													105
110	41.6	254.3	34,000 *	50.2	266.4	38,200 *	54.8	271.4	40,700	61.8	276.6	36,800										110
115	38.2	248.3	32,800 *	47.2	262.0	36,900 *	52.0	267.7	38,500	59.3	273.8	34,800										115
120	34.5	241.5	31,800 *	44.2	257.2	35,600 *	49.2	263.6	36,500	56.7	270.7	32,900										120
125	30.4	233.6	30,400 *	40.9	251.7	34,400 *	46.2	259.1	34,600	54.0	267.2	31,200										125
130	25.7	224.2	29,000 *	37.4	245.6	33,200 *	43.0	254.0	32,900	51.2	263.4	29,700										130
135	20.0	212.3	27,700 *	33.6	238.6	32,200 *	39.7	248.3	31,300	48.3	259.2	28,200	55.8	265.1	25,200							135
140	12.0	194.9	26,800 *	29.4	230.4	31,100 *	36.1	241.9	29,900	45.3	254.5	26,900	53.0	261.5	24,000							140
145				24.5	220.6	30,200 *	32.2	234.5	28,500	42.1	249.2	25,700	50.2	257.6	22,900							145
150				18.5	207.9	28,900	27.8	225.9	27,300	38.7	243.4	24,500	47.3	253.2	21,800							150
155				9.4	187.8	27,700	22.6	215.2	26,100	35.1	236.7	23,500	44.2	248.3	20,900	51.8	254.3	18,300				155
160							15.9	201.0	25,000	31.0	229.0	22,500	41.0	242.9	20,000	49.0	250.2	17,500				160
170										20.9	208.5	20,600	33.7	229.8	18,300	42.8	240.5	16,000				170
180													24.6	211.9	16,800	35.9	228.3	14,700	44.3	236.3	12,600	180
190													9.6	179.4	15,400	27.5	212.1	13,500	37.6	224.8	11,500	190
200																15.4	186.6	12,400	29.6	209.7	10,600	200
210																			18.8	187.4	9,700	210



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

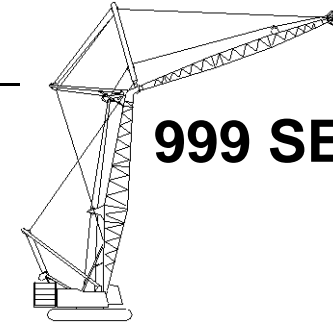
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

160 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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 *b																			50
55	72.5	301.4	46,200 *																			55
60	70.3	299.7	44,900 *																			60
65	68.1	297.8	43,300 *																			65
70	65.9	295.7	41,700 *																			70
75	63.6	293.3	40,200 *	69.8	298.0	44,700 *																75
80	61.3	290.7	38,700 *	67.6	296.1	43,300 *																80
85	59.0	287.9	37,200 *	65.4	293.9	41,800 *																85
90	56.6	284.7	35,800 *	63.1	291.5	40,400 *	66.9	294.0	42,500 *													90
95	54.1	281.2	34,500 *	60.8	288.8	38,900 *	64.6	291.7	41,100 *													95
100	51.5	277.4	33,200 *	58.4	285.9	37,500 *	62.3	289.2	39,800 *													100
105	48.8	273.3	31,900 *	56.0	282.7	36,100 *	60.0	286.5	38,400 *													105
110	46.0	268.7	30,700 *	53.5	279.1	34,800 *	57.6	283.5	37,100 *													110
115	43.1	263.6	29,500 *	50.9	275.3	33,400 *	55.1	280.1	35,700 *	61.7	285.3	34,400										115
120	40.1	258.0	28,400 *	48.2	271.0	32,200 *	52.6	276.5	34,400 *	59.3	282.5	32,500										120
125	36.8	251.7	27,400 *	45.4	266.3	30,900 *	50.0	272.5	33,200 *	56.9	279.3	30,800										125
130	33.2	244.5	26,400 *	42.5	261.1	29,800 *	47.3	268.1	31,900 *	54.4	275.9	29,300										130
135	29.2	236.3	25,400 *	39.3	255.4	28,700 *	44.4	263.2	30,700 *	51.9	272.2	27,900										135
140	24.7	226.4	24,600 *	36.0	248.9	27,600 *	41.4	257.8	29,600	49.2	268.1	26,500	56.1	273.8	23,600							140
145	19.3	214.1	23,900 *	32.4	241.5	26,600 *	38.2	251.8	28,200	46.5	263.5	25,300	53.6	270.3	22,500							145
150	11.5	195.9	23,300 *	28.3	233.0	25,700 *	34.8	245.1	27,000	43.6	258.5	24,200	51.0	266.4	21,400							150
155				23.6	222.7	24,800 *	31.0	237.4	25,800	40.5	253.0	23,100	48.3	262.2	20,500							155
160				17.8	209.5	24,100 *	26.8	228.3	24,700	37.3	246.8	22,100	45.5	257.5	19,600	52.4	263.1	17,100				160
170							15.4	202.3	22,700	29.9	231.7	20,300	39.4	246.5	17,900	47.1	254.6	15,600				170
180										20.2	210.3	18,700	32.4	232.7	16,500	41.2	244.3	14,300				180
190													23.7	214.0	15,200	34.5	231.5	13,100	42.6	240.3	11,100	190
200													9.3	180.3	13,900	26.5	214.5	12,100	36.1	228.1	10,200	200
210																14.8	187.9	11,100	28.5	212.3	9,300	210
220																			18.1	189.1	8,500	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

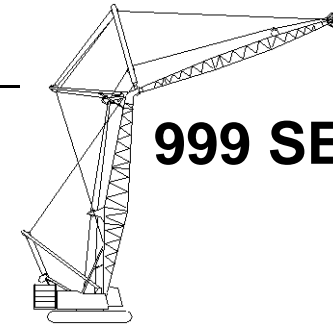
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

160 Ft. Boom, 150 Ft. Jib

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

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

160 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	30,000 *										125
130	42.9	276.9	20,800 *	49.8	288.8	24,000 *	53.6	294.0	26,000 *	59.4	299.8	28,800										130
135	40.2	271.2	19,900 *	47.4	284.4	23,000 *	51.3	290.1	24,900 *	57.3	296.7	27,400										135
140	37.4	265.0	19,000 *	44.9	279.6	21,900 *	49.0	286.0	23,800 *	55.2	293.3	26,100										140
145	34.3	258.1	18,100 *	42.3	274.4	20,900 *	46.6	281.4	22,700 *	52.9	289.7	24,900										145
150	31.0	250.3	17,300 *	39.6	268.6	20,000 *	44.0	276.5	21,700 *	50.7	285.8	23,700	56.6	291.2	20,900							150
155	27.3	241.3	16,600 *	36.7	262.2	19,100 *	41.4	271.1	20,700 *	48.3	281.5	22,700	54.4	287.7	20,000							155
160	23.1	230.7	15,900 *	33.6	255.1	18,200 *	38.6	265.1	19,800 *	45.9	276.9	21,700	52.2	284.0	19,100							160
170	10.8	197.9	14,700 *	26.4	237.8	16,700 *	32.5	251.1	18,100 *	40.6	266.2	19,900	47.5	275.6	17,500							170
180				16.7	212.5	15,300 *	25.0	232.9	16,500 *	34.8	253.3	18,300	42.4	265.5	16,000	48.8	272.6	13,800				180
190							14.4	204.9	15,200 *	27.9	236.9	16,900	36.8	253.4	14,800	43.9	263.0	12,600				190
200										18.9	213.7	15,600	30.3	238.3	13,600	38.4	251.6	11,600	45.0	258.7	9,700	200
210													22.2	218.0	12,500	32.2	237.5	10,700	39.7	247.8	8,800	210
220													8.7	181.8	11,500	24.7	219.0	9,800	33.7	234.4	8,100	220
230																13.9	190.5	9,000	26.6	217.2	7,400	230
240																			16.9	192.1	6,700	240

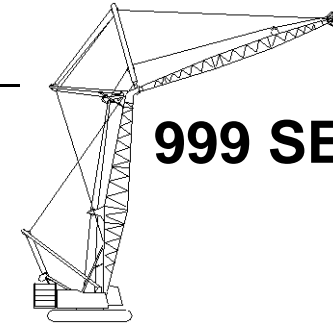
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	75.6	332.6	36,200 *																			55
60	73.9	331.2	35,200 *																			60
65	72.1	329.7	33,900 *																			65
70	70.3	328.0	32,600 *																			70
75	68.5	326.1	31,300 *																			75
80	66.7	324.1	30,000 *																			80
85	64.9	321.8	28,700 *	70.0	326.3	32,300 *																85
90	63.0	319.4	27,500 *	68.2	324.4	31,100 *																90
95	61.1	316.7	26,200 *	66.3	322.3	29,900 *																95
100	59.2	313.8	25,000 *	64.5	320.0	28,700 *	67.5	322.3	30,400 *													100
105	57.2	310.7	23,900 *	62.6	317.5	27,500 *	65.7	320.2	29,300 *													105
110	55.1	307.4	22,800 *	60.7	314.8	26,300 *	63.8	317.8	28,100 *													110
115	53.1	303.8	21,700 *	58.7	311.9	25,100 *	61.9	315.2	27,000 *													115
120	50.9	299.9	20,700 *	56.7	308.7	24,000 *	60.0	312.5	25,900 *													120
125	48.7	295.6	19,700 *	54.7	305.3	22,800 *	58.0	309.5	24,700 *													125
130	46.4	291.1	18,700 *	52.6	301.6	21,800 *	56.0	306.2	23,600 *	61.4	311.3	26,300 *										130
135	44.1	286.1	17,800 *	50.4	297.7	20,700 *	54.0	302.7	22,500 *	59.4	308.4	25,300 *										135
140	41.6	280.7	16,900 *	48.2	293.4	19,700 *	51.9	298.9	21,500 *	57.5	305.4	24,200 *										140
145	39.0	274.8	16,100 *	45.9	288.7	18,800 *	49.7	294.9	20,500 *	55.4	302.0	23,200 *										145
150	36.2	268.3	15,300 *	43.5	283.7	17,800 *	47.4	290.4	19,500 *	53.4	298.5	22,200 *										150
155	33.3	261.1	14,500 *	41.0	278.2	17,000 *	45.1	285.7	18,500 *	51.2	294.6	21,200 *	56.8	299.9	19,700							155
160	30.0	253.0	13,800 *	38.4	272.1	16,100 *	42.7	280.5	17,600 *	49.1	290.4	20,200 *	54.7	296.4	18,800							160
170	22.4	232.7	12,300 *	32.6	258.1	14,600 *	37.4	268.6	15,900 *	44.4	281.0	18,400 *	50.5	288.8	17,200							170
180	10.5	198.8	10,800 *	25.6	240.1	13,100 *	31.5	254.0	14,400 *	39.4	269.9	16,600 *	46.0	279.9	15,800	51.7	285.6	13,500				180
190				16.2	214.0	11,400 *	24.2	235.1	12,800 *	33.7	256.4	15,000 *	41.1	269.3	14,500	47.3	277.0	12,400				190
200							13.9	206.2	11,200 *	27.0	239.3	13,600 *	35.6	256.7	13,300	42.5	267.0	11,300				200
210										18.3	215.4	11,800 *	29.4	241.0	12,300	37.2	255.0	10,400	43.6	262.8	8,600	210
220													21.5	220.0	11,400	31.2	240.3	9,600	38.5	251.3	7,800	220
230													8.4	182.6	10,400	24.0	221.2	8,800	32.7	237.4	7,100	230
240																13.4	191.7	8,000	25.8	219.5	6,500	240
250																			16.4	193.6	5,900	250



Liftcrane Luffing Jib Capacities

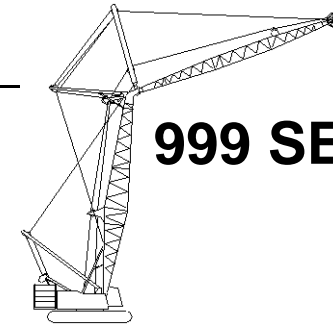
Luffing Jib No. 135 On Boom No. 82 or 22EL

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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	58.3	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	46.7	205.1	19,300	140
145																19.2	184.2	20,900	40.7	199.8	18,400	145
150																			34.0	193.3	17,500	150
155																			25.7	184.6	16,700	155
160																			13.6	170.6	15,900	160

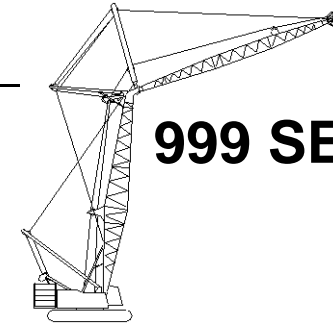
Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Luffing Jib Capacities

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

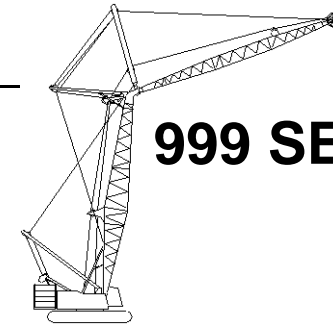
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	62.6	248.9	82,800 *b																			50
55	58.5	246.1	79,700 *b																			55
60	54.2	242.8	76,800 *	66.4	249.8	86,200 *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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

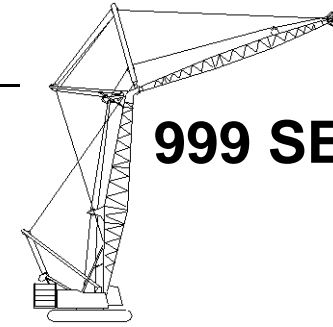
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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	76,100 *b																65
70	50.9	247.7	64,700 *	62.1	256.1	73,600 *b																70
75	46.6	243.3	61,500 *	58.5	253.3	70,000	64.8	256.6	66,200 b													75
80	42.1	238.2	57,600 *	54.7	250.0	64,600	61.3	254.0	61,100 b													80
85	37.1	232.1	53,900 *	50.7	246.1	59,900	57.6	251.1	56,700													85
90	31.4	224.8	50,500 *	46.4	241.7	55,900	53.7	247.6	52,800													90
95	24.6	215.4	47,600 *	41.8	236.6	52,200	49.7	243.7	49,400	60.9	250.3	44,600 b										95
100	15.3	201.6	42,900 *	36.8	230.5	49,000	45.3	239.1	46,300	57.1	247.3	41,900										100
105				31.1	223.0	46,100	40.7	233.7	43,600	53.3	243.8	39,400										105
110				24.3	213.5	43,500	35.5	227.4	41,100	49.2	239.8	37,100										110
115				14.7	199.4	41,100	29.6	219.5	38,900	44.8	235.1	35,100	56.4	242.1	31,400							115
120							22.3	209.3	36,800	40.1	229.7	33,300	52.5	238.5	29,700							120
125							11.3	192.7	34,900	34.9	223.2	31,600	48.4	234.4	28,200							125
130										28.9	215.1	30,000	44.0	229.6	26,800							130
135										21.3	204.5	28,500	39.2	223.9	25,500	51.4	231.6	22,400				135
140										9.3	186.2	27,100	33.9	217.2	24,200	47.2	227.3	21,400				140
145													27.6	208.8	23,100	42.7	222.3	20,300				145
150													19.7	197.4	22,000	37.8	216.3	19,400				150
155													4.3	173.9	21,000	32.2	209.2	18,500	45.5	218.4	16,000	155
160																25.7	200.2	17,700	40.9	213.1	15,300	160
170																			29.9	199.0	14,000	170
180																			11.9	172.8	12,700	180

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

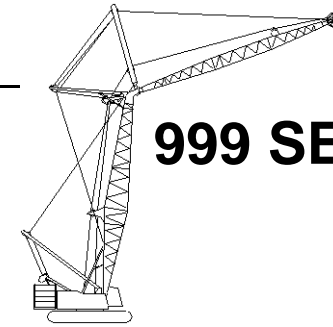
Liftcrane Luffing Jib Capacities

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

170 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	71.4	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	68,200 *b																70
75	51.8	256.5	57,600 *	61.9	264.8	65,800 *	67.5	267.5	65,800 b													75
80	48.1	252.3	55,100 *	58.6	261.9	63,500 *	64.4	265.3	60,700													80
85	44.1	247.5	51,800 *	55.2	258.7	59,600	61.1	262.7	56,300													85
90	39.8	241.9	48,600 *	51.6	254.9	55,500	57.8	259.7	52,400													90
95	35.1	235.4	45,700 *	47.9	250.7	51,900	54.4	256.4	49,000													95
100	29.8	227.5	43,000 *	43.9	245.9	48,700	50.8	252.5	46,000	60.8	259.0	41,400										100
105	23.3	217.5	40,500 *	39.6	240.3	45,900	46.9	248.2	43,300	57.4	256.0	39,000										105
110	14.5	202.9	38,200 *	34.9	233.7	43,300	42.9	243.2	40,800	54.0	252.6	36,700										110
115				29.5	225.7	40,900	38.5	237.3	38,600	50.3	248.7	34,700										115
120				23.0	215.6	38,800	33.6	230.5	36,600	46.5	244.2	32,900	56.8	250.7	29,300							120
125				14.0	200.6	36,700	28.0	222.1	34,700	42.4	239.1	31,200	53.3	247.2	27,700							125
130							21.1	211.2	33,000	38.0	233.2	29,700	49.7	243.3	26,300							130
135							10.7	193.6	31,300	33.0	226.2	28,200	45.8	238.7	25,100							135
140										27.3	217.6	26,900	41.6	233.5	23,900	52.3	240.3	20,900				140
145										20.2	206.3	25,600	37.1	227.4	22,800	48.6	236.2	19,900				145
150										8.8	187.0	24,400	32.1	220.1	21,700	44.7	231.5	19,000				150
155													26.2	211.2	20,700	40.4	226.0	18,100				155
160													18.7	199.0	19,800	35.8	219.7	17,300	47.1	227.4	14,900	160
170																24.3	202.4	15,800	38.7	216.7	13,600	170
180																			28.3	201.6	12,400	180
190																			11.3	173.8	11,200	190



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

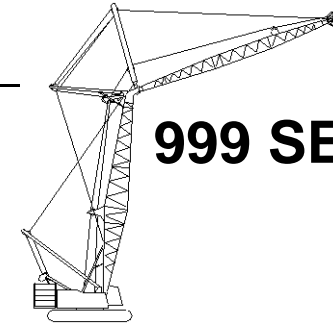
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

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	55,900 *													80
85	49.2	261.2	47,600 *	58.8	270.6	53,600 *	64.0	273.9	55,400 *													85
90	45.7	256.6	46,100 *	55.7	267.4	51,900 *	61.0	271.3	52,400													90
95	41.9	251.4	43,500 *	52.4	263.7	50,200 *	58.0	268.4	49,000													95
100	37.9	245.4	41,100 *	49.1	259.6	48,500 *	54.9	265.1	45,900													100
105	33.4	238.5	38,900 *	45.5	255.0	45,900	51.6	261.4	43,200	60.7	267.6	38,900										105
110	28.3	230.1	36,800 *	41.8	249.8	43,300	48.2	257.1	40,800	57.7	264.6	36,700										110
115	22.2	219.5	35,000 *	37.7	243.8	40,900	44.6	252.4	38,600	54.5	261.3	34,700										115
120	13.8	204.2	33,700 *	33.2	236.8	38,800	40.8	247.0	36,600	51.3	257.5	32,900										120
125				28.1	228.3	36,800	36.6	240.7	34,700	47.8	253.2	31,200	57.1	259.4	27,700							125
130				21.9	217.6	35,000	32.0	233.4	33,000	44.2	248.4	29,600	53.9	256.0	26,300							130
135				13.3	201.8	33,300	26.7	224.5	31,400	40.4	242.9	28,200	50.7	252.1	25,000							135
140							20.2	213.0	30,000	36.1	236.6	26,900	47.2	247.8	23,800							140
145							10.2	194.6	28,600	31.5	229.1	25,700	43.5	242.8	22,700							145
150										26.0	220.0	24,500	39.6	237.2	21,700	49.7	245.1	19,000				150
155										19.3	208.0	23,400	35.3	230.7	20,800	46.2	240.6	18,100				155
160										8.4	187.7	22,400	30.5	222.9	19,900	42.5	235.5	17,300				160
170													17.8	200.6	18,200	34.1	222.8	15,800	44.8	231.7	13,500	170
180																23.2	204.5	14,500	36.8	220.1	12,400	180
190																			27.0	204.0	11,300	190
200																			10.8	174.8	10,300	200

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

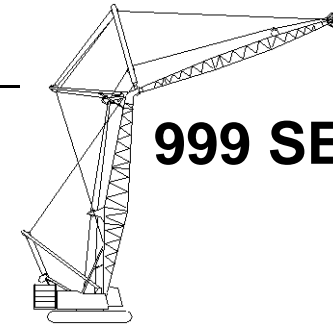
Liftcrane Luffing Jib Capacities

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

170 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	74.6	293.6	53,800 *b																			45
50	72.1	292.1	52,800 *b																			50
55	69.6	290.4	51,900 *																			55
60	67.0	288.4	51,000 *																			60
65	64.4	286.1	50,200 *																			65
70	61.7	283.6	48,900 *	69.5	288.9	52,700 *																70
75	59.0	280.7	47,300 *	66.9	286.9	52,100 *																75
80	56.2	277.6	45,600 *	64.3	284.7	51,300 *																80
85	53.2	274.0	44,000 *	61.6	282.1	49,600 *	66.3	285.0	51,600 *													85
90	50.2	270.1	42,400 *	58.9	279.2	48,000 *	63.6	282.6	50,800 *													90
95	47.0	265.7	40,900 *	56.0	276.0	46,300 *	61.0	280.0	48,600 *													95
100	43.7	260.7	39,500 *	53.1	272.5	44,700 *	58.2	277.1	45,600 *													100
105	40.1	255.1	37,500 *	50.1	268.5	43,100 *	55.3	273.8	42,900 *													105
110	36.2	248.8	35,500 *	46.9	264.1	41,700 *	52.4	270.1	40,500 *	60.6	276.3	36,300										110
115	32.0	241.4	33,700 *	43.5	259.1	40,300 *	49.3	266.1	38,200	57.9	273.3	34,300										115
120	27.1	232.6	32,100 *	39.9	253.5	38,500	46.1	261.5	36,200	55.0	270.0	32,500										120
125	21.3	221.4	30,600 *	36.0	247.1	36,600	42.6	256.4	34,400	52.0	266.3	30,800										125
130	13.2	205.3	29,500 *	31.7	239.7	34,800	39.0	250.6	32,700	48.9	262.2	29,300	57.3	268.1	25,900							130
135				26.9	230.8	33,100	35.0	244.0	31,200	45.7	257.6	27,900	54.5	264.7	24,600							135
140				21.0	219.5	31,600	30.6	236.2	29,700	42.2	252.4	26,500	51.5	260.9	23,400							140
145				12.7	203.0	30,100	25.6	226.9	28,400	38.6	246.5	25,300	48.4	256.7	22,300							145
150							19.3	214.7	27,100	34.6	239.8	24,200	45.1	252.0	21,300							150
155							9.8	195.4	25,900	30.1	231.9	23,100	41.6	246.7	20,400	50.6	254.0	17,700				155
160										24.9	222.3	22,100	37.9	240.7	19,500	47.5	249.6	16,900				160
170										8.0	188.4	20,300	29.2	225.6	17,900	40.6	239.3	15,400				170
180													17.0	202.2	16,400	32.6	225.8	14,200	42.8	235.7	12,000	180
190																22.2	206.5	13,000	35.2	223.3	10,900	190
200																			25.8	206.4	10,000	200
210																			10.3	175.7	9,100	210



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

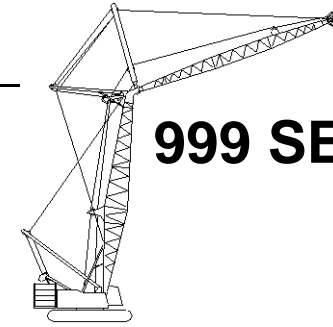
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

170 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	303.9	50,400 *b																			45
50	73.5	302.6	49,500 *b																			50
55	71.2	301.0	48,700 *																			55
60	68.9	299.2	47,900 *																			60
65	66.5	297.1	46,800 *																			65
70	64.1	294.8	45,200 *																			70
75	61.6	292.2	43,600 *	68.8	297.7	48,600 *																75
80	59.1	289.4	42,100 *	66.4	295.7	47,200 *																80
85	56.5	286.2	40,600 *	64.0	293.3	45,700 *																85
90	53.8	282.8	39,200 *	61.5	290.8	44,200 *	65.8	293.7	46,600 *													90
95	51.0	278.9	37,800 *	59.0	287.9	42,800 *	63.4	291.3	45,200 *													95
100	48.1	274.6	36,500 *	56.3	284.7	41,300 *	60.9	288.7	43,900 *													100
105	45.1	269.9	35,300 *	53.7	281.2	39,900 *	58.3	285.7	42,500 *													105
110	41.9	264.6	34,100 *	50.9	277.4	38,500 *	55.7	282.5	40,200 *													110
115	38.4	258.7	32,600 *	48.0	273.1	37,200 *	53.0	278.9	38,000 *	60.6	284.9	34,000 *										115
120	34.7	252.0	31,000 *	44.9	268.3	35,900 *	50.2	274.9	36,000 *	58.0	282.0	32,200 *										120
125	30.7	244.2	29,500 *	41.7	263.0	34,700 *	47.2	270.5	34,200 *	55.4	278.7	30,500 *										125
130	26.0	234.9	28,200 *	38.3	257.1	33,600 *	44.2	265.7	32,500 *	52.7	275.1	29,000 *										130
135	20.4	223.3	27,000 *	34.6	250.3	32,500 *	40.9	260.2	30,900 *	49.8	271.1	27,600 *	57.6	276.8	24,300 *							135
140	12.7	206.5	26,100 *	30.5	242.4	31,400 *	37.4	254.1	29,500 *	46.9	266.6	26,300 *	54.9	273.4	23,100 *							140
145				25.8	233.1	30,000 *	33.6	247.1	28,200 *	43.8	261.7	25,100 *	52.2	269.7	22,100 *							145
150				20.1	221.3	28,700 *	29.4	238.9	26,900 *	40.5	256.2	24,000 *	49.3	265.6	21,100 *							150
155				12.2	204.1	27,400 *	24.5	229.1	25,800 *	37.0	249.9	22,900 *	46.3	261.1	20,100 *							155
160							18.5	216.4	24,700 *	33.2	242.8	21,900 *	43.2	256.1	19,200 *	51.4	262.8	16,600 *				160
170										23.9	224.4	20,100 *	36.3	244.0	17,600 *	45.5	253.9	15,200 *				170
180										7.7	189.1	18,500 *	28.0	228.2	16,200 *	38.9	242.9	13,900 *	47.4	249.8	11,700 *	180
190													16.4	203.6	14,900 *	31.3	228.7	12,800 *	41.0	239.5	10,700 *	190
200																21.3	208.4	11,700 *	33.8	226.5	9,700 *	200
210																			24.8	208.6	8,900 *	210
220																			9.9	176.6	8,100 *	220

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

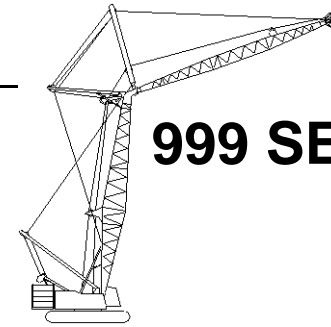
Liftcrane Luffing Jib Capacities

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

170 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	74.8	313.0	46,200 *b																			50
55	72.6	311.5	45,400 *																			55
60	70.5	309.8	44,600 *																			60
65	68.3	307.9	43,100 *																			65
70	66.1	305.8	41,600 *																			70
75	63.8	303.5	40,100 *	70.4	308.4	44,700 *																75
80	61.5	300.9	38,600 *	68.2	306.5	43,300 *																80
85	59.1	298.1	37,200 *	66.0	304.4	41,900 *																85
90	56.7	294.9	35,800 *	63.7	302.0	40,500 *	67.6	304.6	42,500 *													90
95	54.2	291.5	34,500 *	61.4	299.4	39,100 *	65.4	302.4	41,300 *													95
100	51.7	287.7	33,200 *	59.0	296.6	37,700 *	63.1	300.0	40,100 *													100
105	49.0	283.6	32,000 *	56.6	293.4	36,400 *	60.8	297.3	38,700 *													105
110	46.2	279.0	30,700 *	54.1	290.0	35,000 *	58.4	294.4	37,400 *													110
115	43.3	274.0	29,600 *	51.6	286.2	33,800 *	56.0	291.2	36,200 *	62.9	296.3	33,600										115
120	40.3	268.4	28,500 *	48.9	282.0	32,500 *	53.5	287.6	34,900 *	60.6	293.6	31,800										120
125	37.0	262.1	27,500 *	46.1	277.4	31,300 *	50.9	283.8	33,600 *	58.2	290.6	30,100										125
130	33.4	255.0	26,500 *	43.2	272.4	30,100 *	48.2	279.5	32,200	55.7	287.4	28,600										130
135	29.5	246.9	25,600 *	40.1	266.8	29,000 *	45.4	274.8	30,600	53.2	283.8	27,200										135
140	25.1	237.2	24,700 *	36.8	260.5	27,900 *	42.5	269.6	29,200	50.6	279.9	25,900	57.7	285.4	22,700							140
145	19.7	225.0	23,900 *	33.3	253.3	26,900 *	39.3	263.9	27,900	47.9	275.6	24,700	55.3	282.1	21,600							145
150	12.2	207.6	23,200 *	29.3	245.1	26,000 *	36.0	257.4	26,600	45.1	270.9	23,600	52.7	278.5	20,600							150
155				24.8	235.3	25,100 *	32.4	250.0	25,500	42.1	265.6	22,600	50.1	274.5	19,700							155
160				19.4	223.0	24,300 *	28.3	241.5	24,400	39.0	259.8	21,600	47.4	270.1	18,800							160
170							17.8	218.0	22,400	31.9	245.7	19,800	41.6	259.9	17,200	49.4	267.5	14,700				170
180										23.0	226.5	18,200	35.0	247.3	15,800	43.8	258.0	13,500				180
190										7.4	189.8	16,800	27.0	230.6	14,600	37.5	246.4	12,400	45.5	254.1	10,200	190
200													15.8	205.1	13,400	30.1	231.4	11,300	39.5	243.2	9,300	200
210																20.5	210.3	10,400	32.5	229.4	8,500	210
220																			23.8	210.8	7,800	220
230																			9.6	177.4	7,000	230



Liftcrane Luffing Jib Capacities

**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**

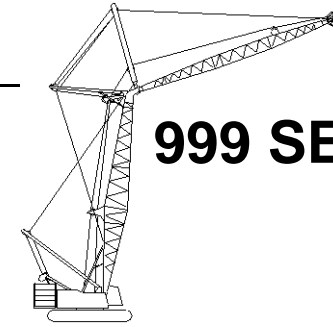
999 SERIES 2

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			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	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	35,500 *													105
110	49.8	292.5	28,000 *	56.8	302.1	32,100 *	60.8	306.0	34,300 *													110
115	47.3	288.0	26,900 *	54.5	298.7	30,900 *	58.5	303.1	33,100 *													115
120	44.6	283.2	25,800 *	52.1	295.0	29,600 *	56.3	299.9	31,900 *	62.7	305.0	31,700										120
125	41.8	277.9	24,800 *	49.7	290.9	28,500 *	54.0	296.4	30,700 *	60.5	302.3	30,000										125
130	38.9	272.0	23,800 *	47.1	286.5	27,300 *	51.6	292.6	29,500 *	58.3	299.3	28,500										130
135	35.7	265.4	22,800 *	44.5	281.6	26,200 *	49.1	288.4	28,300 *	56.0	296.1	27,100										135
140	32.3	258.0	21,900 *	41.7	276.3	25,200 *	46.5	283.9	27,200 *	53.7	292.6	25,800										140
145	28.5	249.5	21,100 *	38.7	270.3	24,200 *	43.8	278.9	26,100 *	51.3	288.7	24,600	57.9	294.1	21,500							145
150	24.2	239.4	20,300 *	35.5	263.7	23,200 *	41.0	273.4	25,100 *	48.8	284.5	23,500	55.6	290.8	20,500							150
155	19.0	226.7	19,600 *	32.1	256.3	22,300 *	38.0	267.4	24,100 *	46.2	280.0	22,500	53.3	287.2	19,600							155
160	11.8	208.6	19,000 *	28.3	247.7	21,400 *	34.7	260.6	23,100 *	43.5	274.9	21,500	50.8	283.3	18,700							160
170				18.7	224.7	19,900 *	27.3	243.9	21,400 *	37.6	263.2	19,700	45.7	274.4	17,200	52.6	280.3	14,600				170
180							17.2	219.5	19,900 *	30.8	248.5	18,200	40.1	263.7	15,800	47.6	272.0	13,400				180
190										22.3	228.5	16,800	33.7	250.4	14,500	42.2	262.0	12,300				190
200										7.2	190.4	15,500	26.1	233.0	13,400	36.2	249.7	11,300	43.9	258.2	9,200	200
210													15.2	206.4	12,300	29.1	234.1	10,400	38.1	246.7	8,400	210
220																19.8	212.0	9,500	31.4	232.3	7,700	220
230																			23.0	212.8	7,000	230
240																			9.2	178.3	6,400	240

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

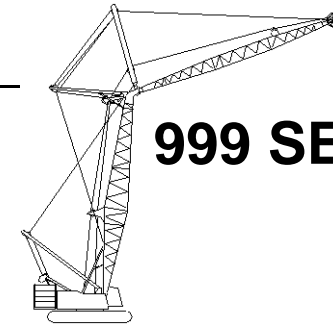
Liftcrane Luffing Jib Capacities

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

170 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	74.8	332.3	39,300 *																			55
60	73.0	330.9	37,900 *																			60
65	71.1	329.3	36,500 *																			65
70	69.2	327.5	35,200 *																			70
75	67.3	325.5	33,800 *																			75
80	65.3	323.3	32,500 *	71.0	327.8	36,500 *																80
85	63.3	320.9	31,200 *	69.1	326.0	35,200 *																85
90	61.3	318.2	29,900 *	67.2	324.0	34,000 *																90
95	59.2	315.4	28,700 *	65.2	321.8	32,700 *																95
100	57.1	312.3	27,400 *	63.2	319.4	31,500 *	66.7	322.1	33,400 *													100
105	55.0	308.9	26,300 *	61.2	316.8	30,200 *	64.7	319.8	32,200 *													105
110	52.8	305.3	25,100 *	59.1	313.9	29,000 *	62.7	317.3	31,100 *													110
115	50.5	301.3	24,000 *	57.0	310.8	27,800 *	60.7	314.6	29,900 *													115
120	48.1	297.0	22,900 *	54.9	307.4	26,600 *	58.6	311.7	28,700 *													120
125	45.7	292.3	21,900 *	52.7	303.7	25,500 *	56.5	308.5	27,600 *	62.5	313.6	29,600										125
130	43.1	287.2	20,900 *	50.4	299.8	24,400 *	54.3	305.1	26,400 *	60.5	310.9	28,100										130
135	40.4	281.6	20,000 *	48.0	295.4	23,300 *	52.1	301.4	25,300 *	58.4	308.0	26,700										135
140	37.6	275.4	19,100 *	45.5	290.7	22,200 *	49.8	297.3	24,200 *	56.3	304.8	25,400										140
145	34.5	268.6	18,200 *	43.0	285.6	21,200 *	47.4	292.9	23,200 *	54.1	301.3	24,200										145
150	31.2	260.8	17,400 *	40.3	280.0	20,300 *	44.9	288.1	22,100 *	51.9	297.5	23,100	58.0	302.8	20,100							150
155	27.6	252.0	16,700 *	37.4	273.8	19,400 *	42.3	282.9	21,100 *	49.5	293.4	22,100	55.9	299.5	19,200							155
160	23.4	241.5	16,000 *	34.4	266.9	18,500 *	39.6	277.1	20,200 *	47.1	289.0	21,200	53.7	296.0	18,300							160
170	11.4	209.6	14,800 *	27.4	250.2	16,900 *	33.6	263.6	18,400 *	42.0	278.8	19,400	49.1	288.0	16,800							170
180				18.1	226.3	15,500 *	26.4	246.3	16,800 *	36.4	266.6	17,800	44.2	278.6	15,400	50.8	285.2	13,000				180
190							16.7	221.0	15,500 *	29.8	251.2	16,500	38.8	267.2	14,100	46.0	276.3	11,900				190
200										21.5	230.4	15,200	32.6	253.3	13,000	40.8	265.7	10,900	47.5	272.2	8,800	200
210										6.9	191.0	14,000	25.2	235.2	12,000	35.0	252.9	10,000	42.5	262.2	8,000	210
220													14.7	207.7	11,000	28.1	236.6	9,200	36.8	250.1	7,300	220
230																19.2	213.8	8,400	30.4	235.0	6,600	230
240																			22.3	214.8	6,000	240
250																			9.0	179.1	5,400	250



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

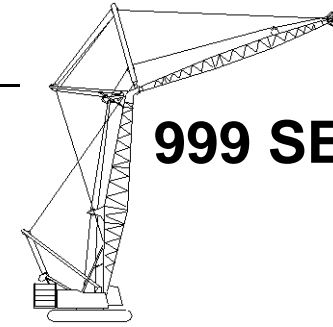
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

170 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	75.8	342.7	35,600 *																			55
60	74.0	341.3	35,000 *																			60
65	72.3	339.8	33,700 *																			65
70	70.5	338.1	32,400 *																			70
75	68.7	336.2	31,200 *																			75
80	66.9	334.2	29,900 *																			80
85	65.0	332.0	28,700 *	70.4	336.7	32,400 *																85
90	63.1	329.5	27,400 *	68.6	334.8	31,200 *																90
95	61.2	326.9	26,300 *	66.8	332.7	30,000 *																95
100	59.3	324.0	25,100 *	64.9	330.5	28,800 *																100
105	57.3	321.0	23,900 *	63.0	328.1	27,700 *	66.3	330.8	29,500 *													105
110	55.3	317.6	22,800 *	61.1	325.4	26,500 *	64.5	328.5	28,400 *													110
115	53.2	314.0	21,800 *	59.2	322.5	25,400 *	62.6	326.0	27,300 *													115
120	51.1	310.1	20,700 *	57.2	319.5	24,200 *	60.7	323.3	26,200 *													120
125	48.9	305.9	19,800 *	55.2	316.1	23,100 *	58.7	320.4	25,100 *													125
130	46.6	301.4	18,800 *	53.1	312.5	22,100 *	56.7	317.2	24,000 *	62.4	322.3	26,700 *										130
135	44.2	296.5	17,900 *	51.0	308.6	21,000 *	54.7	313.8	22,900 *	60.5	319.6	25,700 *										135
140	41.8	291.1	17,000 *	48.8	304.4	20,000 *	52.6	310.1	21,900 *	58.5	316.6	24,700 *										140
145	39.2	285.2	16,200 *	46.5	299.8	19,100 *	50.4	306.2	20,900 *	56.5	313.5	23,800 *										145
150	36.4	278.8	15,400 *	44.1	294.9	18,100 *	48.2	301.9	19,900 *	54.5	310.0	22,800 *										150
155	33.5	271.6	14,600 *	41.6	289.5	17,200 *	45.9	297.2	18,900 *	52.4	306.3	21,800 *										155
160	30.3	263.6	13,900 *	39.0	283.6	16,400 *	43.5	292.2	18,000 *	50.2	302.3	20,800 *	56.1	308.2	18,000							160
170	22.7	243.5	12,400 *	33.3	269.9	14,800 *	38.4	280.6	16,300 *	45.7	293.3	18,900 *	52.0	300.9	16,500							170
180	11.1	210.6	10,900 *	26.6	252.6	13,400 *	32.6	266.6	14,700 *	40.7	282.6	17,200 *	47.5	292.5	15,100							180
190				17.6	227.9	11,700 *	25.6	248.6	13,200 *	35.3	269.8	15,500 *	42.8	282.5	13,900	49.2	289.9	11,600				190
200							16.2	222.5	11,500 *	28.9	253.9	14,000 *	37.6	270.7	12,800	44.6	280.5	10,600				200
210										20.9	232.3	12,300 *	31.6	256.2	11,800	39.5	269.4	9,700	46.0	276.5	7,700	210
220										6.7	191.6	10,800 *	24.5	237.4	10,800	33.9	256.0	8,900	41.1	266.0	7,000	220
230													14.3	209.0	10,000	27.3	239.1	8,200	35.7	253.4	6,400	230
240																18.6	215.4	7,500	29.4	237.7	5,800	240
250																			21.6	216.8	5,200	250
260																			8.7	179.8	4,600	260



999 SERIES 2

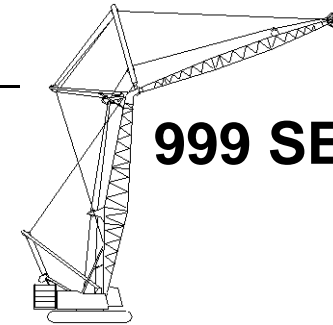
Liftcrane Luffing Jib Capacities

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

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



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

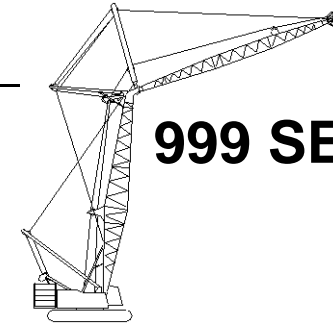
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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	83,200 b																65
70	45.1	244.5	65,900 *	59.3	255.2	75,800 b																70
75	39.8	239.1	61,700 *	55.0	252.0	69,600 b	62.8	256.1	65,600 b													75
80	33.8	232.4	57,700 *	50.6	248.2	64,300	58.7	253.3	60,500 b													80
85	26.7	223.8	54,000 *	45.7	243.8	59,600	54.4	250.0	56,200													85
90	17.1	211.4	49,300 *	40.5	238.4	55,600	49.9	246.1	52,300													90
95				34.6	231.9	52,000	45.0	241.6	48,900	59.0	249.9	43,900 b										95
100				27.7	223.6	48,700	39.7	236.1	45,900	54.7	246.6	41,200										100
105				18.6	211.9	45,800	33.7	229.4	43,200	50.2	242.8	38,700										105
110							26.6	220.8	40,700	45.3	238.2	36,500										110
115							16.9	208.3	38,500	40.0	232.8	34,500	54.6	241.7	30,500							115
120										34.1	226.2	32,700	50.1	237.8	28,900							120
125										27.1	217.8	31,000	45.2	233.3	27,400							125
130										17.6	205.6	29,400	40.0	227.8	26,000							130
135													34.0	221.2	24,800	49.6	231.1	21,600				135
140													26.9	212.7	23,600	44.7	226.5	20,500				140
145													17.4	200.4	22,400	39.3	220.9	19,500				145
150																33.3	214.1	18,600				150
155																26.0	205.4	17,800	43.5	217.9	15,100	155
160																16.0	192.3	16,900	38.0	212.1	14,400	160
170																			24.1	195.4	13,100	170

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

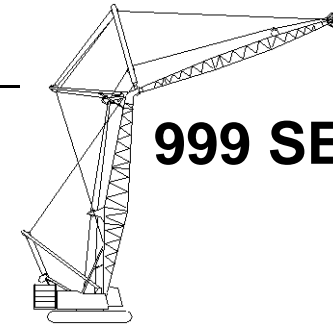
Liftcrane Luffing Jib Capacities

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

180 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	66.1	270.2	74,100 *b																			50
55	62.6	267.8	71,500 *b																			55
60	58.9	265.0	69,000 *																			60
65	55.1	261.7	66,600 *	66.5	269.0	75,800 *b																65
70	51.1	258.0	62,800 *	63.0	266.7	73,400 *b																70
75	46.9	253.6	59,000 *	59.4	263.9	69,400	66.1	267.2	65,300 b													75
80	42.4	248.6	55,400 *	55.6	260.7	64,100	62.5	264.8	60,300 b													80
85	37.4	242.6	52,000 *	51.7	257.0	59,500	58.9	262.0	55,900													85
90	31.8	235.3	48,900 *	47.5	252.8	55,400	55.1	258.7	52,100													90
95	25.1	226.1	46,000 *	43.0	247.8	51,800	51.1	255.0	48,700	62.7	261.3	43,600 b										95
100	16.1	212.8	43,800 *	38.1	242.0	48,600	46.9	250.6	45,700	59.1	258.6	40,900										100
105				32.6	234.9	45,800	42.3	245.6	43,000	55.3	255.3	38,500										105
110				26.1	226.0	43,200	37.4	239.6	40,600	51.3	251.6	36,300										110
115				17.5	213.5	40,800	31.8	232.3	38,400	47.1	247.3	34,300										115
120							25.1	223.1	36,300	42.6	242.3	32,500	55.2	250.4	28,600							120
125							16.0	209.7	34,500	37.7	236.4	30,800	51.3	246.6	27,200							125
130										32.1	229.2	29,300	47.1	242.3	25,800							130
135										25.5	220.1	27,900	42.5	237.3	24,500							135
140										16.6	207.1	26,500	37.6	231.3	23,400	50.8	240.0	20,200				140
145													32.0	224.1	22,300	46.6	235.6	19,300				145
150													25.4	215.0	21,300	42.0	230.5	18,400				150
155													16.4	201.9	20,300	37.0	224.4	17,500				155
160																31.3	217.0	16,800	45.5	227.1	14,200	160
170																15.1	193.7	15,300	35.7	215.4	12,900	170
180																			22.7	197.5	11,800	180



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

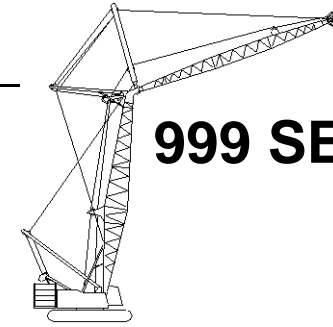
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

180 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	68,100 *b																70
75	52.1	266.8	56,200 *	62.7	275.3	65,800 *																75
80	48.3	262.6	53,000 *	59.4	272.6	63,500 *	65.5	275.9	59,900 b													80
85	44.4	257.8	49,900 *	56.1	269.4	59,100	62.3	273.5	55,500													85
90	40.1	252.3	47,000 *	52.5	265.8	55,100	59.0	270.6	51,700													90
95	35.4	245.9	44,300 *	48.8	261.7	51,500	55.6	267.4	48,400													95
100	30.2	238.1	41,800 *	44.9	257.0	48,300	52.0	263.8	45,400	62.5	270.0	40,500										100
105	23.8	228.3	39,500 *	40.7	251.6	45,500	48.3	259.6	42,700	59.2	267.2	38,100										105
110	15.3	214.2	37,800 *	36.1	245.3	42,900	44.3	254.8	40,300	55.8	264.0	35,900										110
115				30.9	237.8	40,600	40.1	249.3	38,100	52.2	260.4	33,900										115
120				24.7	228.3	38,400	35.4	242.9	36,100	48.5	256.3	32,100										120
125				16.6	215.0	36,500	30.1	235.1	34,200	44.6	251.5	30,400	55.7	259.1	26,700							125
130							23.8	225.2	32,500	40.3	246.1	28,900	52.2	255.4	25,400							130
135							15.1	211.1	30,900	35.7	239.7	27,500	48.5	251.3	24,100							135
140										30.4	232.0	26,200	44.5	246.5	23,000							140
145										24.2	222.3	25,000	40.3	241.1	21,900	51.8	248.8	18,800				145
150										15.8	208.5	23,900	35.6	234.6	20,900	48.0	244.6	17,900				150
155													30.3	226.9	20,000	44.0	239.8	17,100				155
160													24.0	217.2	19,100	39.7	234.2	16,300				160
170																29.7	219.8	14,900	43.1	231.1	12,500	170
180																14.3	195.0	13,600	33.8	218.5	11,400	180
190																		21.5	199.5	10,300		190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

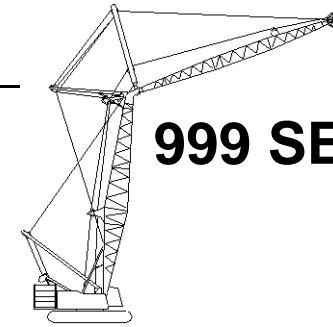
Liftcrane Luffing Jib Capacities

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

180 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	73.4	293.3	56,300 *b																			45
50	70.6	291.7	55,200 *b																			50
55	67.9	289.8	54,200 *b																			55
60	65.0	287.6	53,200 *																			60
65	62.1	285.1	52,300 *	71.0	290.5	56,200 *b																65
70	59.1	282.3	51,500 *	68.2	288.6	55,500 *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	54,900 *b													80
85	49.5	271.5	47,000 *	59.5	281.2	53,500 *	65.0	284.6	54,500 *													85
90	46.0	267.0	44,500 *	56.4	278.1	52,100 *	62.1	282.1	51,700													90
95	42.2	261.8	42,100 *	53.2	274.6	50,400 *	59.1	279.3	48,300													95
100	38.2	255.9	39,900 *	49.9	270.6	48,300	56.0	276.1	45,300													100
105	33.7	249.0	37,800 *	46.4	266.1	45,500	52.8	272.5	42,600	62.2	278.7	38,000										105
110	28.7	240.7	35,900 *	42.7	261.1	42,900	49.4	268.5	40,200	59.3	275.9	35,800										110
115	22.7	230.4	34,200 *	38.7	255.3	40,600	45.9	264.0	38,100	56.2	272.7	33,900										115
120	14.6	215.5	33,000 *	34.3	248.5	38,500	42.2	258.8	36,100	53.0	269.2	32,100										120
125				29.4	240.5	36,500	38.1	252.9	34,200	49.6	265.2	30,400										125
130				23.6	230.4	34,700	33.7	246.0	32,600	46.1	260.6	28,900	56.1	267.8	25,300							130
135				15.8	216.5	33,100	28.7	237.7	31,000	42.4	255.5	27,500	52.9	264.2	24,100							135
140							22.6	227.3	29,600	38.4	249.6	26,200	49.6	260.2	22,900							140
145							14.4	212.4	28,200	34.0	242.8	25,000	46.1	255.7	21,900							145
150										29.0	234.6	23,900	42.3	250.5	20,900	52.5	257.6	17,900				150
155										23.0	224.4	22,900	38.3	244.6	20,000	49.2	253.5	17,100				155
160										15.0	209.9	21,900	33.9	237.8	19,100	45.7	248.9	16,300				160
170													22.9	219.3	17,500	37.8	237.7	14,900				170
180																28.3	222.3	13,700	41.0	235.0	11,400	180
190																13.7	196.2	12,500	32.2	221.5	10,400	190
200																			20.5	201.3	9,500	200



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

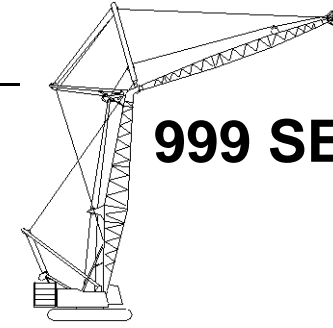
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

180 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	74.8	303.7	52,800 *b																			45
50	72.3	302.2	51,900 *b																			50
55	69.8	300.5	51,000 *																			55
60	67.2	298.5	50,200 *																			60
65	64.6	296.3	49,400 *																			65
70	61.9	293.8	48,600 *	70.1	299.3	51,900 *																70
75	59.2	290.9	47,100 *	67.5	297.4	51,300 *																75
80	56.4	287.8	45,500 *	64.9	295.2	50,700 *																80
85	53.4	284.3	43,900 *	62.3	292.7	49,700 *	67.2	295.6	50,700 *													85
90	50.4	280.4	42,400 *	59.5	289.9	48,200 *	64.6	293.3	50,300 *													90
95	47.2	276.0	40,300 *	56.7	286.8	46,600 *	61.9	290.8	47,900													95
100	43.9	271.1	38,300 *	53.8	283.3	45,000 *	59.2	288.0	45,000													100
105	40.3	265.6	36,400 *	50.8	279.5	43,400 *	56.3	284.8	42,300													105
110	36.5	259.3	34,600 *	47.7	275.1	42,000 *	53.4	281.3	39,900	62.1	287.4	35,400										110
115	32.3	251.9	32,900 *	44.3	270.3	40,300	50.4	277.4	37,700	59.3	284.6	33,400										115
120	27.5	243.2	31,300 *	40.8	264.9	38,200	47.2	273.0	35,700	56.5	281.4	31,700										120
125	21.7	232.3	29,900 *	37.0	258.7	36,300	43.9	268.1	33,900	53.6	277.9	30,000										125
130	13.9	216.8	28,900 *	32.8	251.5	34,500	40.3	262.5	32,200	50.6	274.0	28,500										130
135				28.1	243.0	32,800	36.4	256.2	30,700	47.4	269.7	27,100	56.4	276.5	23,700							135
140				22.5	232.5	31,300	32.2	248.9	29,300	44.1	264.8	25,900	53.5	272.9	22,500							140
145				15.1	217.8	29,900	27.4	240.2	28,000	40.5	259.3	24,700	50.5	269.0	21,500							145
150							21.7	229.2	26,700	36.7	253.0	23,600	47.3	264.7	20,500							150
155							13.8	213.6	25,500	32.5	245.8	22,500	44.0	259.8	19,600							155
160										27.7	237.1	21,600	40.4	254.3	18,700	50.2	262.4	15,900				160
170										14.4	211.2	19,800	32.4	240.7	17,100	43.6	253.0	14,500				170
180													21.9	221.2	15,700	36.2	241.1	13,300	46.2	249.4	10,900	180
190																27.0	224.8	12,200	39.2	238.6	10,000	190
200																13.1	197.4	11,100	30.8	224.3	9,100	200
210																			19.6	203.1	8,300	210

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

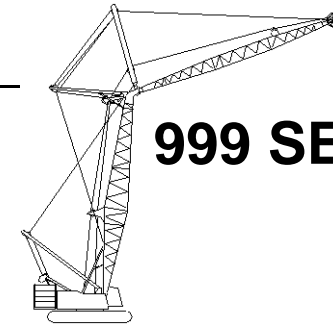
Liftcrane Luffing Jib Capacities

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

180 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
45	76.0	314.0	49,500 *b																			45
50	73.7	312.7	48,700 *b																			50
55	71.4	311.1	47,900 *																			55
60	69.1	309.3	47,100 *																			60
65	66.7	307.3	46,400 *																			65
70	64.3	305.0	44,900 *																			70
75	61.8	302.4	43,400 *	69.4	308.1	47,800 *																75
80	59.2	299.6	42,000 *	67.0	306.1	47,100 *																80
85	56.6	296.5	40,600 *	64.6	303.9	45,700 *																85
90	54.0	293.0	39,200 *	62.1	301.3	44,300 *	66.6	304.3	46,500 *													90
95	51.2	289.2	37,800 *	59.6	298.6	42,900 *	64.2	302.0	45,300 *													95
100	48.3	285.0	36,500 *	57.0	295.5	41,500 *	61.8	299.5	44,000 *													100
105	45.3	280.3	34,900 *	54.3	292.0	40,100 *	59.2	296.6	42,000													105
110	42.1	275.0	33,300 *	51.6	288.3	38,800 *	56.6	293.5	39,600													110
115	38.7	269.1	31,700 *	48.7	284.1	37,500 *	53.9	290.0	37,500	61.9	296.0	33,200										115
120	35.0	262.5	30,200 *	45.7	279.5	36,200 *	51.2	286.2	35,500	59.4	293.2	31,400										120
125	31.0	254.8	28,800 *	42.5	274.3	35,000 *	48.3	282.0	33,700	56.8	290.1	29,800										125
130	26.4	245.6	27,600 *	39.1	268.5	33,900 *	45.2	277.3	32,000	54.1	286.7	28,300										130
135	20.9	234.2	26,400 *	35.5	262.0	32,700	42.1	272.0	30,500	51.3	282.8	26,900										135
140	13.4	218.0	25,600 *	31.5	254.4	31,200	38.6	266.1	29,100	48.4	278.6	25,600	56.7	285.1	22,200							140
145				27.0	245.5	29,700	35.0	259.5	27,800	45.4	274.0	24,400	54.0	281.7	21,200							145
150				21.6	234.4	28,400	30.9	251.7	26,500	42.2	268.7	23,300	51.3	277.9	20,200							150
155				14.6	219.1	27,200	26.3	242.6	25,400	38.9	262.9	22,300	48.4	273.6	19,300							155
160							20.8	231.1	24,300	35.2	256.3	21,400	45.4	269.0	18,400							160
170										26.6	239.6	19,600	38.8	257.9	16,900	48.1	267.0	14,200				170
180										13.8	212.4	18,000	31.1	243.6	15,500	41.8	256.9	13,000				180
190													21.1	223.1	14,300	34.7	244.2	11,900	44.3	253.6	9,700	190
200																26.0	227.1	10,900	37.6	242.1	8,800	200
210																12.6	198.5	10,000	29.6	227.0	8,000	210
220																			18.8	204.8	7,300	220



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

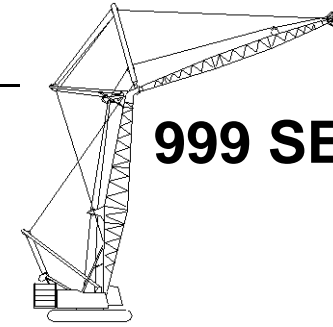
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

180 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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 *b																			50
55	72.8	321.6	44,700 *																			55
60	70.6	319.9	44,000 *																			60
65	68.4	318.1	42,800 *																			65
70	66.2	316.0	41,300 *																			70
75	64.0	313.7	39,900 *	70.9	318.7	44,300 *																75
80	61.7	311.1	38,500 *	68.7	316.9	43,200 *																80
85	59.3	308.3	37,100 *	66.5	314.8	41,900 *																85
90	56.9	305.2	35,800 *	64.2	312.5	40,600 *																90
95	54.4	301.7	34,500 *	62.0	310.0	39,200 *	66.2	313.0	41,400 *													95
100	51.9	298.0	33,200 *	59.6	307.2	37,900 *	63.9	310.7	40,200 *													100
105	49.2	293.9	32,000 *	57.2	304.1	36,600 *	61.6	308.1	39,000 *													105
110	46.4	289.3	30,800 *	54.7	300.8	35,300 *	59.3	305.3	37,800 *													110
115	43.5	284.3	29,700 *	52.2	297.1	34,000 *	56.9	302.2	36,500 *													115
120	40.5	278.8	28,600 *	49.5	293.0	32,800 *	54.4	298.8	35,100	61.8	304.7	31,000										120
125	37.2	272.6	27,500 *	46.8	288.5	31,600 *	51.8	295.0	33,300	59.4	301.9	29,300										125
130	33.7	265.6	26,600 *	43.9	283.6	30,400 *	49.2	290.9	31,700	57.0	298.8	27,900										130
135	29.8	257.5	25,500 *	40.9	278.1	29,300 *	46.4	286.3	30,100	54.5	295.4	26,500										135
140	25.4	247.9	24,400 *	37.7	272.0	28,200 *	43.5	281.3	28,700	52.0	291.6	25,200										140
145	20.1	236.0	23,500 *	34.2	265.1	27,200 *	40.5	275.8	27,400	49.3	287.5	24,100	57.0	293.8	20,700							145
150	12.9	219.1	22,800 *	30.3	257.2	26,300 *	37.2	269.6	26,200	46.6	283.0	23,000	54.5	290.4	19,800							150
155				26.0	247.8	25,400 *	33.7	262.5	25,100	43.7	278.1	21,900	51.9	286.7	18,900							155
160				20.9	236.3	24,600 *	29.8	254.4	24,000	40.6	272.5	21,000	49.3	282.6	18,000							160
170							20.0	232.9	22,100	33.9	259.4	19,300	43.6	273.1	16,500	51.6	280.0	13,800				170
180										25.6	241.9	17,700	37.3	261.3	15,100	46.2	271.3	12,600				180
190										13.3	213.6	16,300	29.9	246.3	13,900	40.2	260.7	11,500				190
200													20.3	225.0	12,800	33.4	247.3	10,600	42.6	257.6	8,400	200
210																25.0	229.4	9,700	36.1	245.4	7,600	210
220																12.1	199.6	8,800	28.5	229.6	6,900	220
230																			18.1	206.4	6,300	230



999 SERIES 2

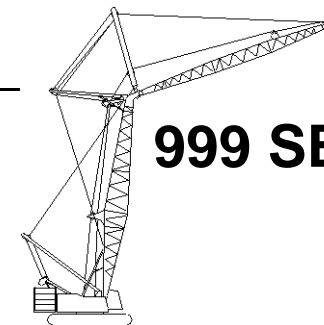
Liftcrane Luffing Jib Capacities

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

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			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	333.4	42,400 *b																			50
55	74.0	332.0	41,800 *																			55
60	72.0	330.5	40,900 *																			60
65	69.9	328.8	39,600 *																			65
70	67.9	326.8	38,200 *																			70
75	65.8	324.7	36,800 *																			75
80	63.7	322.3	35,500 *	70.2	327.6	39,800 *																80
85	61.5	319.8	34,200 *	68.1	325.7	38,600 *																85
90	59.3	316.9	32,900 *	66.1	323.6	37,400 *																90
95	57.1	313.8	31,600 *	64.0	321.2	36,100 *	67.9	323.9	38,000 *													95
100	54.8	310.4	30,400 *	61.8	318.7	34,800 *	65.8	321.7	36,900 *													100
105	52.4	306.8	29,200 *	59.6	315.9	33,600 *	63.7	319.4	35,700 *													105
110	50.0	302.7	28,100 *	57.4	312.8	32,300 *	61.5	316.8	34,600 *													110
115	47.4	298.4	27,000 *	55.1	309.5	31,100 *	59.3	314.0	33,400 *													115
120	44.8	293.5	25,900 *	52.7	305.8	29,900 *	57.1	310.9	32,200 *													120
125	42.0	288.3	24,900 *	50.3	301.9	28,700 *	54.8	307.5	31,000 *	61.6	313.4	29,200										125
130	39.1	282.4	23,900 *	47.8	297.5	27,600 *	52.4	303.8	29,900 *	59.5	310.5	27,700										130
135	35.9	275.9	22,900 *	45.1	292.8	26,500 *	49.9	299.8	28,700 *	57.2	307.4	26,400										135
140	32.5	268.5	22,000 *	42.4	287.5	25,500 *	47.4	295.4	27,600 *	54.9	304.1	25,100										140
145	28.8	260.1	21,200 *	39.4	281.8	24,500 *	44.8	290.5	26,500 *	52.5	300.4	24,000										145
150	24.5	250.1	20,400 *	36.3	275.3	23,500 *	42.0	285.3	25,500 *	50.1	296.4	22,900	57.2	302.5	19,700							150
155	19.4	237.7	19,700 *	33.0	268.1	22,500 *	39.0	279.4	24,500 *	47.6	292.0	21,900	54.9	299.1	18,800							155
160	12.5	220.2	19,100 *	29.3	259.8	21,700 *	35.9	272.9	23,500 *	44.9	287.2	20,900	52.5	295.4	17,900							160
170				20.1	238.1	20,100 *	28.7	257.1	21,800 *	39.2	276.2	19,200	47.5	287.1	16,400							170
180							19.3	234.6	20,200 *	32.7	262.4	17,700	42.1	277.0	15,000	49.8	284.8	12,500				180
190										24.7	244.1	16,300	36.0	264.7	13,800	44.6	275.5	11,400				190
200										12.9	214.7	15,000	28.9	248.9	12,700	38.8	264.3	10,500	46.6	271.8	8,300	200
210													19.6	226.7	11,700	32.2	250.2	9,600	41.1	261.4	7,500	210
220																24.1	231.6	8,800	34.9	248.6	6,900	220
230																11.7	200.6	8,000	27.5	232.1	6,200	230
240																			17.5	208.0	5,600	240



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

180 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	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	30,200 *													115
120	48.3	307.3	23,000 *	55.4	318.2	26,900 *	59.4	322.6	29,100 *													120
125	45.8	302.7	22,000 *	53.2	314.6	25,800 *	57.3	319.5	27,900 *													125
130	43.3	297.6	21,000 *	50.9	310.7	24,600 *	55.1	316.2	26,800 *	61.5	322.0	27,300										130
135	40.6	292.0	20,100 *	48.6	306.5	23,600 *	52.9	312.5	25,700 *	59.5	319.2	26,000										135
140	37.8	285.9	19,200 *	46.2	301.9	22,500 *	50.6	308.6	24,600 *	57.4	316.1	24,700										140
145	34.7	279.1	18,300 *	43.6	296.8	21,500 *	48.3	304.3	23,500 *	55.2	312.8	23,600										145
150	31.5	271.4	17,500 *	41.0	291.3	20,600 *	45.8	299.7	22,500 *	53.0	309.2	22,500										150
155	27.8	262.6	16,800 *	38.1	285.3	19,700 *	43.3	294.6	21,500 *	50.7	305.3	21,500	57.3	311.2	18,400							155
160	23.7	252.3	16,100 *	35.1	278.6	18,800 *	40.6	289.0	20,600 *	48.4	301.0	20,500	55.2	307.8	17,500							160
170	12.1	221.3	14,800 *	28.3	262.4	17,200 *	34.7	276.1	18,800 *	43.4	291.3	18,800	50.7	300.3	16,000							170
180				19.5	239.8	15,700 *	27.8	259.6	17,200 *	37.9	279.7	17,300	45.9	291.4	14,700	52.7	297.6	12,100				180
190							18.7	236.3	15,700 *	31.6	265.3	16,000	40.7	280.8	13,500	48.1	289.3	11,000				190
200										23.9	246.3	14,700	34.8	267.8	12,400	43.1	279.5	10,100				200
210										12.4	215.8	13,600	28.0	251.5	11,400	37.5	267.7	9,200	45.0	276.1	7,100	210
220													19.0	228.4	10,500	31.2	253.1	8,400	39.7	265.1	6,400	220
230																23.4	233.7	7,700	33.7	251.7	5,800	230
240																11.3	201.6	7,000	26.6	234.5	5,200	240
250																			16.9	209.5	4,700	250

Manitowoc Cranes, Inc.

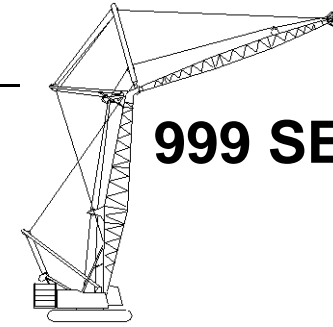
Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Luffing Jib Capacities

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

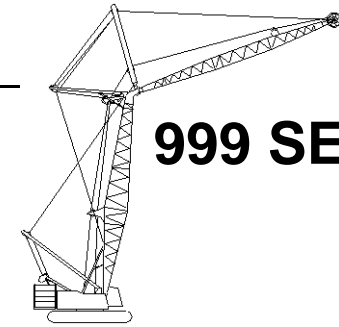
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing 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	75.9	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	23,300 *	61.5	330.7	25,700										135
140	41.9	301.5	17,100 *	49.3	315.4	20,300 *	53.3	321.3	22,300 *	59.5	327.9	24,500										140
145	39.3	295.7	16,300 *	47.1	310.9	19,300 *	51.2	317.4	21,300 *	57.5	324.8	23,300										145
150	36.6	289.3	15,500 *	44.7	306.0	18,400 *	49.0	313.2	20,300 *	55.5	321.5	22,200										150
155	33.7	282.1	14,700 *	42.3	300.8	17,500 *	46.7	308.7	19,300 *	53.4	317.9	21,200										155
160	30.5	274.2	14,000 *	39.7	295.0	16,700 *	44.4	303.8	18,400 *	51.3	314.1	20,300	57.5	319.8	17,200							160
170	23.0	254.3	12,500 *	34.1	281.7	15,100 *	39.3	292.6	16,700 *	46.9	305.4	18,600	53.4	313.0	15,700							170
180	11.7	222.3	11,000 *	27.5	264.9	13,600 *	33.6	279.1	15,100 *	42.0	295.2	17,100	49.1	304.9	14,400							180
190				18.9	241.5	11,900 *	27.0	262.0	13,600 *	36.7	283.0	15,700	44.5	295.5	13,200	51.0	302.4	10,700				190
200							18.2	237.9	11,900 *	30.7	268.0	14,500	39.4	284.4	12,100	46.6	293.7	9,800				200
210										23.2	248.4	12,900 *	33.8	270.9	11,100	41.7	283.4	8,900				210
220										12.1	216.9	11,200 *	27.1	253.9	10,300	36.4	271.1	8,200	43.6	280.1	6,100	220
230													18.4	230.1	9,400	30.2	255.8	7,500	38.5	268.6	5,500	230
240																22.6	235.7	6,800	32.7	254.7	5,000	240
250																11.0	202.6	6,200	25.8	236.8	4,400	250



Liftcrane Luffing Jib Capacities

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

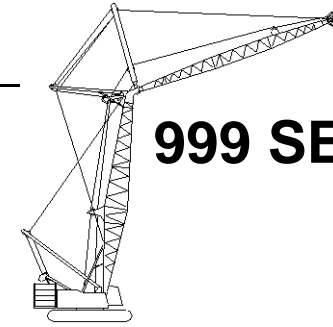
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5



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	83,200 b																65
70	36.7	239.7	65,800 *	55.5	254.1	75,800 b																70
75	29.2	232.0	62,000 *	50.4	250.3	69,600 b	60.2	255.5	65,400 b													75
80	19.2	220.9	57,500 *	44.9	245.8	64,300	55.4	252.4	60,400 b													80
85				38.7	240.2	59,600	50.2	248.6	56,100 b													85
90				31.6	233.1	55,600	44.7	244.0	52,200	61.3	252.4	46,700 b										90
95				22.6	223.3	51,900	38.5	238.4	48,800	56.5	249.4	43,600 b										95
100				6.0	203.7	48,600	31.3	231.2	45,800	51.4	245.7	40,900 b										100
105							22.2	221.3	43,100	46.0	241.3	38,500										105
110							4.4	200.2	40,500	40.0	236.0	36,300	57.2	244.7	32,000 b							110
115										33.1	229.2	34,300	52.2	241.2	30,200 b							115
120										24.6	220.1	32,500	46.8	236.9	28,600							120
125										11.3	204.7	30,700	40.9	231.7	27,100							125
130													34.2	225.2	25,700	52.4	234.8	22,300 b				130
135													26.0	216.6	24,500	47.1	230.6	21,200				135
140													14.1	202.9	23,200	41.2	225.4	20,100				140
145																34.5	219.0	19,200				145
150																26.5	210.5	18,300	46.7	222.4	15,400	150
155																14.8	197.3	17,400	40.7	217.2	14,700	155
160																			34.0	210.6	14,000	160
170																			13.6	187.9	12,700	170



999 SERIES 2

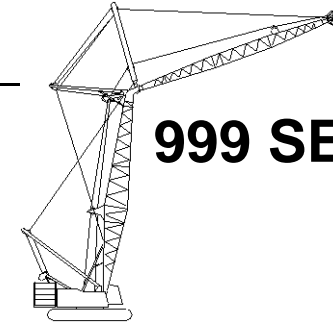
Liftcrane Luffing Jib Capacities

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

190 Ft. Boom, 80 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	63.2	269.3	78,200 *b																			50
55	59.1	266.5	75,400 *b																			55
60	54.8	263.2	71,000 *b																			60
65	50.3	259.4	66,700 *	64.4	268.5	80,600 *b																65
70	45.5	254.9	62,700 *	60.3	265.9	75,500 b																70
75	40.2	249.5	58,800 *	56.1	262.8	69,300 b	64.2	266.8	65,000 b													75
80	34.3	242.9	55,200 *	51.7	259.1	64,000	60.2	264.2	60,000 b													80
85	27.3	234.5	52,200 *	46.9	254.8	59,400	56.0	261.1	55,700 b													85
90	17.9	222.5	49,500 *	41.8	249.7	55,300	51.5	257.4	51,900													90
95				36.1	243.6	51,700	46.8	253.1	48,500	61.1	261.1	43,200 b										95
100				29.5	235.8	48,500	41.6	247.9	45,500	56.9	258.1	40,500 b										100
105				21.1	225.2	45,600	35.9	241.7	42,800	52.5	254.5	38,100										105
110				5.6	204.3	42,900	29.3	233.9	40,400	47.9	250.4	35,900										110
115							20.8	223.2	38,100	42.8	245.4	34,000	57.6	253.4	29,700 b							115
120							4.1	200.6	36,000	37.3	239.5	32,100	53.2	249.9	28,200							120
125										30.9	232.1	30,500	48.6	245.9	26,700							125
130										23.0	222.2	28,900	43.6	241.0	25,400							130
135										10.5	205.6	27,500	38.2	235.3	24,100							135
140													31.9	228.1	22,900	48.8	239.5	19,700				140
145													24.3	218.8	21,900	43.9	234.8	18,800				145
150													13.2	204.0	20,800	38.4	229.0	17,900				150
155																32.2	222.0	17,000				155
160																24.7	212.8	16,300				160
170																			43.5	226.5	13,600	170
180																			31.7	213.5	12,400	170
																			12.7	189.0	11,200	180



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

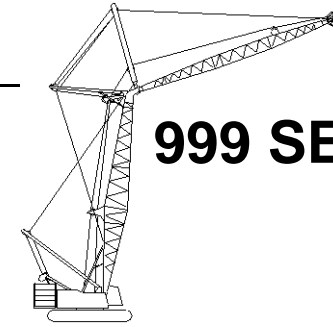
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

190 Ft. Boom, 90 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	73,100 *b																70
75	47.2	263.9	56,200 *	60.3	274.5	69,100 b	67.3	277.8	64,800 b													75
80	42.7	258.9	52,900 *	56.5	271.5	63,800	63.8	275.5	59,800 b													80
85	37.8	253.0	49,800 *	52.6	267.9	59,200	60.2	272.9	55,400 b													85
90	32.2	245.9	46,900 *	48.5	263.8	55,100	56.4	269.8	51,700													90
95	25.7	236.9	44,500 *	44.1	259.0	51,600	52.5	266.2	48,300													95
100	16.9	224.0	42,300 *	39.3	253.4	48,400	48.4	262.1	45,300	61.0	269.7	40,200 b										100
105				34.0	246.7	45,500	44.0	257.3	42,600	57.3	266.7	37,800										105
110				27.8	238.4	43,000	39.2	251.6	40,200	53.4	263.3	35,700										110
115				19.9	227.1	40,600	33.8	244.9	38,000	49.3	259.3	33,700										115
120				5.3	204.7	38,400	27.6	236.4	36,000	45.0	254.6	31,900	57.8	262.0	27,900							120
125							19.6	225.0	34,200	40.3	249.2	30,300	54.0	258.7	26,400							125
130							3.9	200.9	32,400	35.1	242.7	28,800	50.0	254.7	25,100							130
135										29.1	234.8	27,400	45.7	250.2	23,900							135
140										21.6	224.2	26,100	41.0	244.9	22,700							140
145										9.9	206.5	24,800	35.9	238.6	21,700	50.2	248.4	18,500				145
150													30.1	230.9	20,700	45.9	243.9	17,600				150
155													22.9	220.9	19,700	41.3	238.7	16,800				155
160													12.4	205.2	18,800	36.2	232.4	16,100				160
170																23.3	214.9	14,600	40.9	230.4	12,100	170
180																			29.9	216.3	11,000	180
190																			11.9	190.1	10,000	190

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

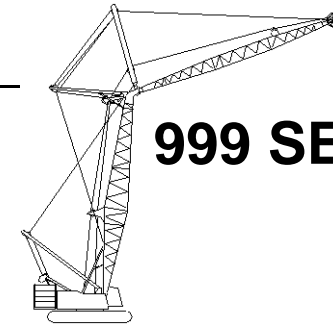
Liftcrane Luffing Jib Capacities

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

190 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	68.8	291.1	66,600 *b																			50
55	65.7	289.0	65,700 *b																			55
60	62.5	286.6	62,700 *																			60
65	59.3	283.8	59,600 *	69.8	290.2	67,400 *b																65
70	55.9	280.6	56,600 *	66.7	288.2	67,400 *b																70
75	52.3	277.0	53,500 *	63.5	285.9	65,700 *																75
80	48.6	272.9	50,500 *	60.3	283.2	63,400	66.6	286.5	59,400 b													80
85	44.7	268.2	47,700 *	56.9	280.1	58,800	63.4	284.2	55,000													85
90	40.4	262.7	45,100 *	53.4	276.7	54,800	60.1	281.5	51,300													90
95	35.8	256.4	42,600 *	49.8	272.7	51,300	56.8	278.4	47,900													95
100	30.5	248.7	40,200 *	45.9	268.2	48,100	53.3	274.9	45,000													100
105	24.3	239.1	38,100 *	41.7	263.0	45,300	49.6	271.0	42,300	60.9	278.4	37,400										105
110	16.0	225.5	36,500 *	37.2	256.9	42,700	45.7	266.4	39,900	57.6	275.4	35,200										110
115				32.2	249.7	40,400	41.6	261.2	37,700	54.1	272.0	33,300										115
120				26.3	240.8	38,200	37.1	255.1	35,700	50.5	268.1	31,500										120
125				18.9	228.8	36,300	32.0	247.8	33,900	46.6	263.7	29,900										125
130				5.1	205.2	34,400	26.1	238.8	32,200	42.6	258.7	28,400	54.6	267.4	24,600							130
135							18.6	226.6	30,700	38.1	252.8	27,000	51.0	263.6	23,400							135
140							3.7	201.3	29,100	33.2	245.8	25,800	47.2	259.3	22,300							140
145										27.6	237.3	24,600	43.2	254.3	21,300							145
150										20.5	226.1	23,400	38.8	248.5	20,300	51.2	257.2	17,200				150
155										9.4	207.4	22,300	34.0	241.8	19,400	47.4	252.9	16,400				155
160													28.5	233.5	18,500	43.4	248.0	15,600				160
170													11.8	206.2	16,900	34.2	235.6	14,300	47.1	244.8	11,600	170
180																22.1	216.9	13,000	38.7	234.0	10,600	180
190																			28.3	218.9	9,600	190
200																			11.3	191.1	8,700	200



999 SERIES 2

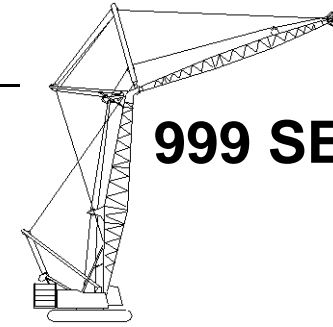
Liftcrane Luffing Jib Capacities

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

190 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	70.8	301.8	54,100 *b																			50
55	68.0	299.9	53,200 *b																			55
60	65.2	297.7	52,300 *																			60
65	62.3	295.3	51,400 *																			65
70	59.3	292.5	50,600 *	68.9	299.0	54,500 *b																70
75	56.2	289.3	49,700 *	66.1	296.9	53,900 *																75
80	53.1	285.8	47,300 *	63.2	294.6	53,300 *																80
85	49.7	281.8	45,000 *	60.2	291.9	52,600 *	66.0	295.3	53,500 *													85
90	46.2	277.3	42,700 *	57.2	288.8	52,000 *	63.1	292.9	51,200 *													90
95	42.5	272.2	40,500 *	54.0	285.4	50,600 *	60.1	290.2	47,900 *													95
100	38.5	266.3	38,400 *	50.7	281.6	48,100 *	57.1	287.1	44,900 *													100
105	34.1	259.5	36,500 *	47.3	277.2	45,200 *	53.9	283.7	42,300 *													105
110	29.1	251.4	34,700 *	43.6	272.3	42,700 *	50.6	279.8	39,900 *	60.8	287.0	35,200 *										110
115	23.2	241.2	33,100 *	39.7	266.7	40,400 *	47.2	275.5	37,700 *	57.8	284.1	33,300 *										115
120	15.3	226.8	31,900 *	35.4	260.2	38,300 *	43.5	270.5	35,700 *	54.6	280.7	31,500 *										120
125				30.7	252.5	36,300 *	39.6	264.9	33,900 *	51.4	277.0	29,900 *										125
130				25.1	243.0	34,600 *	35.3	258.3	32,300 *	48.0	272.7	28,400 *										130
135				18.0	230.4	32,900 *	30.5	250.6	30,700 *	44.4	267.9	27,000 *	55.1	276.1	23,400 *							135
140				4.8	205.6	31,300 *	24.9	241.1	29,300 *	40.5	262.4	25,800 *	51.9	272.4	22,300 *							140
145							17.7	228.2	27,900 *	36.3	256.1	24,600 *	48.5	268.2	21,200 *							145
150							3.5	201.6	26,600 *	31.6	248.7	23,500 *	44.9	263.5	20,300 *							150
155										26.3	239.7	22,500 *	41.1	258.1	19,400 *	52.0	266.0	16,300 *				155
160										19.6	227.8	21,500 *	37.0	252.0	18,500 *	48.7	261.9	15,600 *				160
170													27.1	236.0	17,000 *	41.3	251.9	14,300 *				170
180													11.2	207.2	15,500 *	32.6	238.6	13,000 *	44.8	249.0	10,600 *	180
190																21.0	218.8	11,900 *	36.8	237.4	9,700 *	190
200																			27.0	221.3	8,800 *	200
210																			10.8	192.1	8,000 *	210



999 SERIES 2

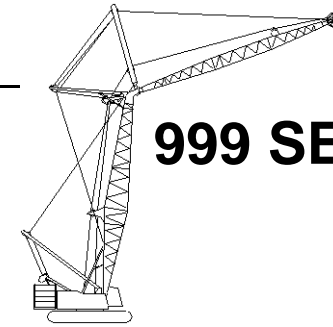
Liftcrane Luffing Jib Capacities

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

190 Ft. Boom, 120 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	72.5	312.3	50,900 *b																			50
55	70.0	310.6	50,100 *b																			55
60	67.4	308.7	49,300 *																			60
65	64.8	306.4	48,500 *																			65
70	62.1	303.9	47,800 *	70.7	309.7	50,900 *b																70
75	59.4	301.1	46,700 *	68.2	307.8	50,400 *																75
80	56.6	298.0	44,700 *	65.6	305.6	49,800 *																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	48,200 *	65.5	304.0	49,400 *													90
95	47.5	286.3	38,700 *	57.4	297.5	46,700 *	62.8	301.6	47,500													95
100	44.1	281.4	36,800 *	54.5	294.1	45,200 *	60.1	298.8	44,500													100
105	40.6	276.0	35,000 *	51.6	290.4	43,700 *	57.3	295.8	41,900													105
110	36.8	269.7	33,300 *	48.4	286.2	42,200 *	54.4	292.4	39,500													110
115	32.6	262.5	31,800 *	45.2	281.5	40,100	51.4	288.6	37,300	60.7	295.7	32,800										115
120	27.8	253.9	30,300 *	41.7	276.2	38,000	48.3	284.4	35,400	58.0	292.7	31,100										120
125	22.2	243.2	29,000 *	38.0	270.2	36,100	45.0	279.7	33,600	55.1	289.4	29,500										125
130	14.6	228.1	28,000 *	33.9	263.3	34,300	41.6	274.4	31,900	52.1	285.8	28,000										130
135				29.3	255.2	32,700	37.8	268.4	30,400	49.0	281.6	26,600										135
140				24.0	245.2	31,200	33.7	261.4	29,000	45.8	277.1	25,400	55.5	284.8	21,800							140
145				17.2	231.9	29,700	29.2	253.3	27,700	42.4	271.9	24,200	52.6	281.2	20,800							145
150				4.6	206.0	28,400	23.8	243.2	26,400	38.7	266.0	23,100	49.5	277.1	19,900							150
155							16.9	229.8	25,300	34.7	259.3	22,100	46.3	272.6	19,000							155
160							3.4	201.9	24,100	30.3	251.5	21,200	42.9	267.5	18,100	52.7	274.8	15,100				160
170										18.7	229.5	19,400	35.3	255.2	16,600	46.5	266.3	13,800				170
180													25.9	238.4	15,200	39.4	255.6	12,600				180
190													10.7	208.2	13,900	31.2	241.4	11,600	42.8	253.0	9,200	190
200																20.1	220.6	10,600	35.2	240.7	8,400	200
210																			25.8	223.7	7,600	210
220																			10.3	193.0	6,900	220



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

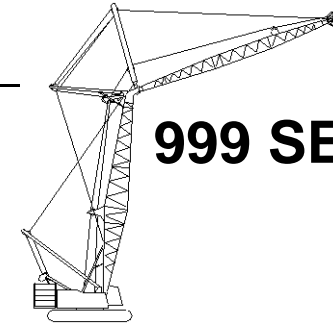
Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

190 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	45,800 *													90
95	51.4	299.5	36,900 *	60.2	309.2	43,000 *	65.1	312.7	45,300 *													95
100	48.5	295.3	35,300 *	57.6	306.2	41,600 *	62.6	310.2	44,200 *													100
105	45.5	290.6	33,700 *	55.0	302.8	40,300 *	60.1	307.5	41,600													105
110	42.3	285.4	32,100 *	52.2	299.2	39,000 *	57.5	304.5	39,200													110
115	38.9	279.6	30,600 *	49.4	295.1	37,700 *	54.9	301.1	37,100													115
120	35.3	273.0	29,200 *	46.4	290.6	36,500 *	52.1	297.4	35,100	60.7	304.4	30,800										120
125	31.3	265.3	27,900 *	43.3	285.5	35,300 *	49.3	293.3	33,300	58.1	301.4	29,200										125
130	26.7	256.3	26,700 *	40.0	279.9	34,100	46.3	288.8	31,700	55.5	298.1	27,700										130
135	21.3	245.1	25,600 *	36.4	273.6	32,500	43.2	283.8	30,200	52.8	294.5	26,400										135
140	14.0	229.4	24,900 *	32.5	266.3	31,000	39.9	278.1	28,800	49.9	290.5	25,100										140
145				28.2	257.7	29,600	36.3	271.7	27,500	47.0	286.1	24,000	55.9	293.5	20,500							145
150				23.1	247.3	28,300	32.4	264.4	26,300	43.9	281.2	22,900	53.2	289.9	19,600							150
155				16.6	233.4	27,100	28.0	255.8	25,100	40.6	275.7	21,900	50.4	286.0	18,700							155
160				4.4	206.4	25,800	22.9	245.3	24,100	37.1	269.5	20,900	47.5	281.6	17,800							160
170							3.2	202.2	22,000	29.0	254.1	19,200	41.1	271.4	16,300	50.5	279.7	13,500				170
180										18.0	231.1	17,700	33.9	258.3	15,000	44.5	270.5	12,400				180
190													24.9	240.6	13,800	37.8	259.1	11,300	47.4	267.1	8,900	190
200													10.3	209.1	12,600	29.9	244.2	10,400	41.0	256.8	8,100	200
210																19.3	222.4	9,500	33.8	243.8	7,400	210
220																			24.8	225.9	6,700	220
230																			9.9	193.9	6,000	230

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

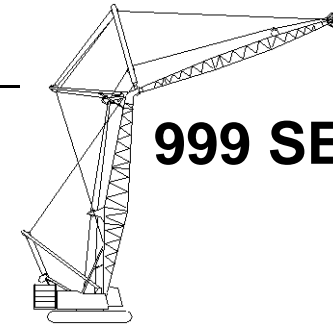
Liftcrane Luffing Jib Capacities

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

190 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	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	41,300 *													95
100	52.0	308.3	33,200 *	60.2	317.8	38,000 *	64.7	321.4	40,200 *													100
105	49.4	304.2	32,000 *	57.8	314.8	36,800 *	62.4	318.9	39,100 *													105
110	46.6	299.7	30,700 *	55.3	311.5	35,500 *	60.1	316.2	38,000 *													110
115	43.8	294.7	29,400 *	52.8	307.9	34,300 *	57.7	313.1	36,700 *													115
120	40.7	289.2	28,100 *	50.2	303.9	33,000 *	55.3	309.8	34,800 *	63.0	315.7	30,400 *										120
125	37.5	283.0	26,900 *	47.5	299.6	31,800 *	52.7	306.2	33,000 *	60.6	313.0	28,800 *										125
130	34.0	276.1	25,800 *	44.6	294.8	30,700 *	50.1	302.2	31,300 *	58.3	310.1	27,300 *										130
135	30.1	268.1	24,700 *	41.6	289.4	29,600 *	47.4	297.8	29,800 *	55.8	306.8	26,000 *										135
140	25.7	258.7	23,700 *	38.5	283.5	28,500 *	44.5	293.0	28,400 *	53.3	303.3	24,700 *										140
145	20.5	246.9	22,800 *	35.0	276.8	27,500 *	41.5	287.6	27,100 *	50.7	299.4	23,600 *										145
150	13.5	230.6	22,200 *	31.3	269.1	26,600 *	38.4	281.7	25,900 *	48.0	295.1	22,500 *	56.2	302.2	19,100 *							150
155				27.1	260.2	25,700 *	34.9	274.9	24,800 *	45.2	290.4	21,500 *	53.7	298.7	18,200 *							155
160				22.2	249.3	24,900 *	31.2	267.2	23,800 *	42.2	285.1	20,600 *	51.1	294.8	17,400 *							160
170				4.3	206.8	23,500 *	22.0	247.3	21,800 *	35.7	272.8	18,900 *	45.6	285.9	15,900 *							170
180							3.1	202.4	20,000 *	28.0	256.7	17,300 *	39.6	275.0	14,600 *	48.6	284.3	11,900 *				180
190										17.3	232.7	16,000 *	32.6	261.3	13,400 *	42.8	274.5	10,900 *				190
200													24.0	242.8	12,300 *	36.4	262.4	10,000 *	45.5	271.4	7,700 *	200
210													9.9	210.0	11,300 *	28.8	246.8	9,100 *	39.5	260.5	6,900 *	210
220																18.6	224.0	8,300 *	32.5	246.7	6,300 *	220
230																			23.8	228.1	5,700 *	230
240																			9.6	194.8	5,000 *	240



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

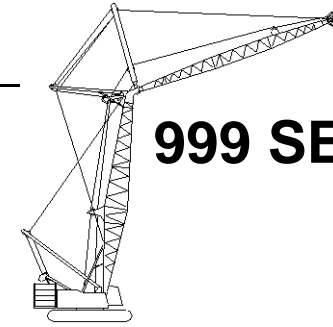
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

190 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	74.1	342.1	41,100 *																			55
60	72.1	340.6	40,400 *																			60
65	70.1	338.9	39,200 *																			65
70	68.0	337.0	38,000 *																			70
75	66.0	334.9	36,700 *																			75
80	63.8	332.5	35,400 *	70.7	337.9	39,600 *																80
85	61.7	329.9	34,100 *	68.6	336.1	38,500 *																85
90	59.5	327.1	32,800 *	66.6	334.0	37,300 *																90
95	57.3	324.0	31,600 *	64.5	331.7	36,200 *																95
100	55.0	320.7	30,400 *	62.3	329.2	35,000 *	66.5	332.4	36,900 *													100
105	52.6	317.0	29,200 *	60.2	326.5	33,700 *	64.4	330.1	35,900 *													105
110	50.1	313.0	28,100 *	57.9	323.5	32,500 *	62.3	327.6	34,800 *													110
115	47.6	308.7	27,000 *	55.7	320.2	31,300 *	60.1	324.8	33,600 *													115
120	45.0	303.9	25,900 *	53.3	316.7	30,200 *	57.9	321.8	32,500 *													120
125	42.2	298.6	24,900 *	50.9	312.8	29,000 *	55.6	318.5	31,400 *	62.8	324.4	28,700										125
130	39.3	292.8	23,900 *	48.4	308.5	27,900 *	53.2	314.9	30,300 *	60.6	321.7	27,200										130
135	36.2	286.4	23,000 *	45.8	303.9	26,800 *	50.8	311.0	29,100 *	58.4	318.7	25,900										135
140	32.8	279.1	22,100 *	43.1	298.8	25,800 *	48.3	306.8	28,000 *	56.1	315.5	24,600										140
145	29.1	270.7	21,300 *	40.2	293.1	24,700 *	45.7	302.1	27,000 *	53.8	312.0	23,500										145
150	24.8	260.9	20,500 *	37.1	286.9	23,800 *	43.0	297.0	25,900	51.4	308.2	22,400										150
155	19.8	248.7	19,800 *	33.8	279.9	22,800 *	40.1	291.3	24,700	48.9	304.0	21,400	56.4	310.9	18,100							155
160	13.1	231.8	19,200 *	30.2	271.9	22,000 *	37.0	285.1	23,700	46.3	299.4	20,500	54.1	307.4	17,300							160
170				21.4	251.2	20,400 *	30.1	270.0	21,800	40.7	288.9	18,800	49.3	299.5	15,800							170
180				4.1	207.2	19,200 *	21.3	249.2	20,100	34.5	275.9	17,300	44.0	290.0	14,500	51.8	297.3	11,800				180
190							3.0	202.7	18,500	27.0	259.1	15,900	38.2	278.6	13,300	46.8	288.7	10,800				190
200										16.7	234.2	14,700	31.5	264.2	12,300	41.3	278.3	9,900				200
210													23.2	244.9	11,300	35.1	265.7	9,000	43.9	275.5	6,800	210
220													9.6	210.8	10,400	27.8	249.3	8,300	38.1	264.0	6,200	220
230																18.0	225.7	7,500	31.4	249.6	5,600	230
240																			23.0	230.2	5,000	240
250																			9.2	195.6	4,500	250

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

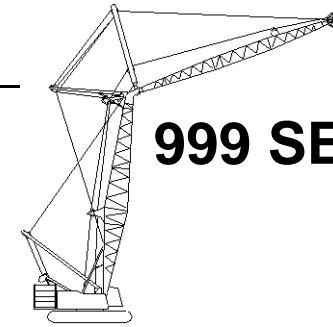
Liftcrane Luffing Jib Capacities

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

190 Ft. Boom, 160 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	75.1	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	31,500 *													110
115	50.8	321.9	24,100 *	58.1	332.2	28,300 *	62.1	336.2	30,400 *													115
120	48.5	317.6	23,100 *	55.9	328.9	27,100 *	60.1	333.5	29,400 *													120
125	46.0	313.0	22,100 *	53.7	325.4	26,000 *	58.0	330.5	28,300 *													125
130	43.5	307.9	21,100 *	51.5	321.6	24,900 *	55.9	327.2	27,200 *	62.6	333.1	26,800										130
135	40.8	302.4	20,200 *	49.2	317.4	23,900 *	53.7	323.7	26,100 *	60.6	330.3	25,500										135
140	38.0	296.3	19,300 *	46.8	312.9	22,800 *	51.4	319.9	25,000 *	58.5	327.4	24,200										140
145	35.0	289.6	18,400 *	44.2	308.0	21,800 *	49.1	315.7	24,000 *	56.4	324.2	23,100										145
150	31.7	282.0	17,600 *	41.6	302.6	20,900 *	46.7	311.2	22,900 *	54.2	320.7	22,000										150
155	28.1	273.3	16,900 *	38.8	296.7	19,900 *	44.2	306.3	21,900 *	51.9	317.0	21,000										155
160	24.0	263.1	16,100 *	35.9	290.2	19,100 *	41.5	300.9	21,000 *	49.6	312.9	20,100	56.7	319.5	16,900							160
170	12.6	232.9	14,900 *	29.2	274.5	17,400 *	35.8	288.4	19,200 *	44.7	303.6	18,400	52.3	312.4	15,400							170
180				20.8	253.1	16,000 *	29.1	272.6	17,500 *	39.4	292.6	16,900	47.6	304.0	14,100							180
190				4.0	207.5	14,800 *	20.6	251.0	16,100 *	33.4	279.0	15,600	42.5	294.0	12,900	50.1	302.0	10,400				190
200							2.9	203.0	14,900 *	26.1	261.5	14,400	36.9	282.0	11,900	45.2	292.9	9,500				200
210										16.2	235.6	13,300	30.5	267.0	10,900	39.9	282.0	8,600	47.5	289.5	6,400	210
220													22.4	246.9	10,100	34.0	268.8	7,900	42.5	279.5	5,800	220
230													9.3	211.7	9,200	26.9	251.8	7,200	36.8	267.4	5,200	230
240																17.4	227.2	6,500	30.4	252.4	4,600	240
250																			22.3	232.2	4,100	250



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

184,600 Lb. Crane Counterweight

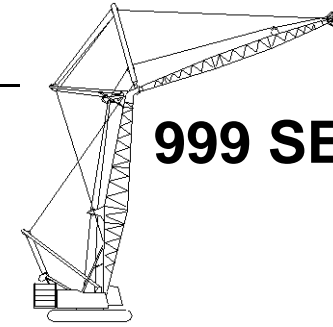
44,000 Lb. Carbody Counterweight

360 Degree Rating

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

190 Ft. Boom, 170 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	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	25,700 *													125
130	46.9	322.0	19,000 *	54.1	334.1	22,600 *	58.1	339.1	24,700 *													130
135	44.6	317.2	18,100 *	52.0	330.4	21,600 *	56.1	335.9	23,700 *	62.4	341.7	25,200										135
140	42.1	311.9	17,200 *	49.9	326.3	20,600 *	54.1	332.4	22,700 *	60.5	339.0	23,900										140
145	39.5	306.1	16,400 *	47.6	321.9	19,600 *	51.9	328.7	21,700 *	58.6	336.1	22,800										145
150	36.8	299.7	15,600 *	45.3	317.2	18,700 *	49.8	324.6	20,700 *	56.6	332.9	21,700										150
155	33.9	292.7	14,800 *	42.9	312.0	17,800 *	47.5	320.2	19,700 *	54.5	329.5	20,700										155
160	30.7	284.8	14,100 *	40.3	306.4	16,900 *	45.2	315.4	18,800 *	52.4	325.8	19,800										160
170	23.3	265.2	12,700 *	34.8	293.4	15,300 *	40.2	304.6	17,000 *	48.0	317.4	18,200	54.8	324.8	15,100							170
180	12.3	234.0	11,100 *	28.3	277.1	13,800 *	34.7	291.5	15,400 *	43.3	307.7	16,700	50.6	317.2	13,800							180
190				20.1	254.9	12,200 *	28.2	275.2	13,900 *	38.2	296.1	15,300	46.1	308.3	12,700	52.9	314.8	10,100				190
200				3.9	207.9	10,700 *	20.0	252.8	12,200 *	32.3	281.9	14,200	41.2	297.8	11,600	48.5	306.6	9,200				200
210							2.8	203.2	10,700 *	25.3	263.8	13,100	35.8	285.3	10,700	43.8	297.0	8,400				210
220										15.7	237.0	11,700 *	29.5	269.7	9,800	38.7	285.6	7,600	46.0	293.8	5,500	220
230													21.7	248.8	9,000	32.9	271.8	6,900	41.1	283.3	4,900	230
240													9.0	212.5	8,300	26.1	254.1	6,300	35.7	270.7	4,400	240
250																16.9	228.7	5,700				250



999 SERIES 2

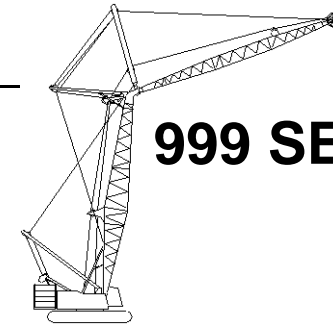
Liftcrane Luffing Jib Capacities

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

200 Ft. Boom, 100 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib 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	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	56,200 *b													80
85	45.0	278.5	45,000 *	57.7	290.9	54,400 *	64.5	294.9	54,500 b													85
90	40.7	273.1	42,700 *	54.3	287.5	53,800 *	61.3	292.3	50,800													90
95	36.1	266.8	40,500 *	50.7	283.6	50,900	58.0	289.4	47,400													95
100	30.9	259.3	38,400 *	46.8	279.3	47,800	54.5	286.1	44,500													100
105	24.8	249.8	36,600 *	42.8	274.2	45,000	50.9	282.3	41,900	62.6	289.4	36,700										105
110	16.7	236.6	35,200 *	38.4	268.4	42,400	47.1	277.9	39,500	59.3	286.7	34,600										110
115				33.5	261.5	40,100	43.1	272.9	37,300	55.9	283.5	32,700										115
120				27.9	253.1	38,000	38.7	267.1	35,400	52.4	279.9	31,000										120
125				20.9	242.1	36,100	33.8	260.3	33,600	48.7	275.7	29,400										125
130				10.3	224.2	34,200	28.3	252.0	31,900	44.7	271.0	27,900	57.0	279.1	23,900							130
135							21.5	241.3	30,400	40.5	265.6	26,500	53.5	275.6	22,800							135
140							11.3	224.3	28,900	35.8	259.2	25,300	49.8	271.7	21,700							140
145										30.6	251.6	24,100	46.0	267.2	20,600							145
150										24.4	242.0	23,000	41.9	262.0	19,700							150
155										16.1	228.5	22,000	37.4	255.9	18,800	50.6	265.7	15,600				155
160													32.3	248.7	18,000	46.8	261.3	14,900				160
170													19.1	228.0	16,400	38.3	250.4	13,600				170
180																27.8	235.1	12,400	43.1	248.4	9,900	180
190																10.1	206.0	11,300	33.8	235.8	9,000	190
200																			21.5	216.8	8,100	200



999 SERIES 2

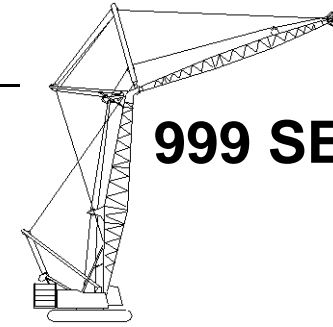
Liftcrane Luffing Jib Capacities

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

200 Ft. Boom, 110 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	71.0	311.9	53,000 *b																			50
55	68.2	310.0	52,100 *b																			55
60	65.4	307.9	51,200 *																			60
65	62.5	305.5	50,400 *																			65
70	59.5	302.7	49,600 *	69.6	309.4	53,400 *b																70
75	56.5	299.6	47,500 *	66.8	307.4	52,800 *b																75
80	53.3	296.0	45,300 *	63.9	305.1	52,200 *																80
85	50.0	292.1	43,100 *	61.0	302.5	51,600 *	67.0	305.9	52,300 *b													85
90	46.5	287.6	41,000 *	57.9	299.5	51,000 *	64.1	303.6	50,700													90
95	42.8	282.5	39,000 *	54.8	296.2	50,500 *	61.2	301.0	47,400													95
100	38.8	276.7	37,000 *	51.6	292.5	47,800	58.1	298.1	44,500													100
105	34.4	270.0	35,300 *	48.1	288.2	44,900	55.0	294.8	41,800													105
110	29.5	262.0	33,600 *	44.5	283.5	42,400	51.8	291.1	39,500	62.3	298.1	34,600										110
115	23.6	252.0	32,100 *	40.7	278.0	40,100	48.4	286.9	37,300	59.4	295.3	32,700										115
120	15.9	238.1	31,000 *	36.5	271.8	38,000	44.8	282.1	35,400	56.3	292.2	30,900										120
125				31.9	264.4	36,100	41.0	276.8	33,600	53.1	288.6	29,300										125
130				26.6	255.5	34,300	36.8	270.6	31,900	49.8	284.6	27,900										130
135				20.0	243.9	32,700	32.2	263.3	30,400	46.3	280.1	26,500	57.3	287.8	22,700							135
140				9.8	225.0	31,100	26.9	254.5	29,000	42.5	275.0	25,300	54.1	284.4	21,600							140
145							20.5	243.1	27,700	38.5	269.2	24,100	50.8	280.5	20,600							145
150							10.8	225.2	26,400	34.1	262.4	23,000	47.4	276.2	19,700							150
155										29.2	254.3	22,000	43.7	271.3	18,800							155
160										23.3	244.1	21,100	39.8	265.7	18,000	51.5	274.5	14,900				160
170													30.8	251.6	16,500	44.5	265.5	13,600				170
180													18.2	229.6	15,100	36.5	253.8	12,400				180
190																26.5	237.5	11,400	41.0	252.3	9,000	190
200																9.7	206.9	10,400	32.2	238.8	8,200	200
210																			20.5	218.6	7,400	210



999 SERIES 2

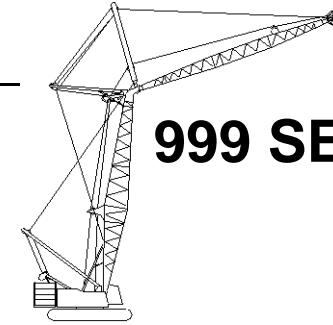
Liftcrane Luffing Jib Capacities

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

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			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
50	72.7	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	47,900 *	66.4	314.6	48,300 *													90
95	47.7	296.6	37,300 *	58.1	308.2	46,700 *	63.8	312.3	47,000													95
100	44.4	291.8	35,500 *	55.3	304.9	45,300 *	61.1	309.7	44,100													100
105	40.8	286.4	33,800 *	52.3	301.2	43,900 *	58.3	306.7	41,500													105
110	37.1	280.2	32,300 *	49.2	297.2	42,100	55.5	303.5	39,100													110
115	32.9	273.0	30,800 *	46.0	292.6	39,800	52.5	299.8	36,900	62.1	306.8	32,200										115
120	28.2	264.5	29,400 *	42.6	287.5	37,700	49.4	295.8	35,000	59.4	304.0	30,500										120
125	22.6	254.0	28,200 *	38.9	281.7	35,800	46.2	291.3	33,200	56.6	300.9	28,900										125
130	15.3	239.4	27,300 *	34.9	275.0	34,100	42.8	286.2	31,600	53.7	297.4	27,500										130
135				30.5	267.2	32,500	39.2	280.4	30,100	50.7	293.5	26,100										135
140				25.4	257.8	30,900	35.2	273.8	28,700	47.5	289.2	24,900	57.5	296.4	21,200							140
145				19.1	245.6	29,500	30.8	266.1	27,400	44.2	284.3	23,800	54.6	293.1	20,200							145
150				9.4	225.9	28,200	25.8	256.8	26,200	40.6	278.8	22,700	51.6	289.3	19,200							150
155							19.6	244.9	25,000	36.8	272.6	21,700	48.5	285.1	18,400							155
160							10.3	226.2	23,900	32.6	265.4	20,700	45.3	280.5	17,600							160
170										22.3	246.1	19,000	38.1	269.2	16,100	49.2	279.2	13,200				170
180													29.5	254.3	14,700	42.5	269.5	12,000				180
190													17.4	231.2	13,500	34.9	257.0	11,000	46.2	266.8	8,500	190
200																25.4	239.8	10,100	39.2	255.9	7,700	200
210																9.3	207.7	9,200	30.8	241.6	7,000	210
220																			19.6	220.4	6,300	220



999 SERIES 2

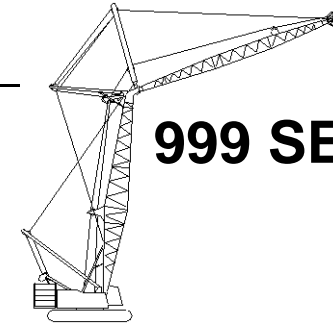
Liftcrane Luffing Jib Capacities

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

200 Ft. Boom, 130 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	332.9	46,800 *b																			50
55	71.7	331.3	46,100 *																			55
60	69.4	329.5	45,400 *																			60
65	67.0	327.5	44,700 *																			65
70	64.6	325.3	43,400 *																			70
75	62.1	322.8	41,900 *	70.5	328.8	46,000 *																75
80	59.6	320.0	40,300 *	68.1	327.0	45,600 *																80
85	57.0	316.9	38,700 *	65.8	324.8	45,100 *																85
90	54.3	313.5	37,100 *	63.3	322.5	44,200 *																90
95	51.6	309.7	35,500 *	60.8	319.8	42,900 *	65.9	323.3	44,600 *													95
100	48.7	305.6	34,000 *	58.3	316.9	41,700 *	63.5	321.0	43,800													100
105	45.7	300.9	32,500 *	55.6	313.6	40,400 *	61.0	318.3	41,200													105
110	42.5	295.8	31,000 *	52.9	310.0	39,100 *	58.4	315.4	38,800													110
115	39.2	290.0	29,600 *	50.1	306.0	37,900 *	55.8	312.2	36,700													115
120	35.5	283.4	28,300 *	47.2	301.6	36,700 *	53.1	308.6	34,700	62.0	315.4	30,200										120
125	31.6	275.9	27,100 *	44.1	296.7	35,500 *	50.3	304.6	33,000	59.5	312.6	28,600										125
130	27.1	267.0	26,000 *	40.8	291.3	33,900	47.4	300.3	31,300	56.9	309.5	27,200										130
135	21.7	256.0	25,000 *	37.3	285.1	32,300	44.3	295.4	29,800	54.2	306.1	25,900										135
140	14.7	240.8	24,200 *	33.5	278.1	30,800	41.0	290.0	28,500	51.4	302.3	24,600										140
145				29.3	269.9	29,400	37.6	283.9	27,200	48.5	298.1	23,500	57.7	305.1	19,900							145
150				24.4	260.0	28,100	33.8	276.9	26,000	45.5	293.4	22,400	55.0	301.8	18,900							150
155				18.3	247.2	26,900	29.6	268.8	24,800	42.4	288.3	21,400	52.3	298.1	18,100							155
160				9.0	226.7	25,700	24.8	259.1	23,800	39.0	282.4	20,500	49.5	294.0	17,300							160
170							9.9	227.0	21,800	31.3	268.2	18,800	43.4	284.5	15,800	52.9	292.1	12,900				170
180										21.4	248.0	17,300	36.5	272.6	14,500	47.1	283.7	11,700				180
190													28.3	256.8	13,300	40.8	273.3	10,700				190
200													16.8	232.7	12,200	33.5	260.1	9,800	44.3	270.9	7,400	200
210																24.3	242.0	9,000	37.6	259.4	6,700	210
220																8.9	208.5	8,100	29.6	244.3	6,100	220
230																			18.8	222.1	5,500	230



999 SERIES 2

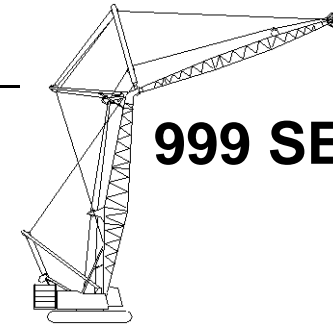
Liftcrane Luffing Jib Capacities

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

200 Ft. Boom, 140 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	343.2	43,800 *b																			50
55	73.1	341.8	43,100 *																			55
60	70.9	340.2	42,500 *																			60
65	68.7	338.3	41,300 *																			65
70	66.5	336.3	40,100 *																			70
75	64.3	334.0	38,900 *																			75
80	62.0	331.5	37,600 *	69.8	337.7	42,300 *																80
85	59.6	328.7	36,300 *	67.6	335.7	41,600 *																85
90	57.2	325.6	34,900 *	65.3	333.5	40,500 *																90
95	54.8	322.2	33,600 *	63.1	331.1	39,300 *	67.7	334.2	41,100 *													95
100	52.2	318.5	32,300 *	60.8	328.5	38,100 *	65.5	332.0	40,200 *													100
105	49.6	314.5	31,000 *	58.4	325.5	36,800 *	63.2	329.6	39,100 *													105
110	46.8	310.0	29,700 *	55.9	322.3	35,600 *	60.9	327.0	38,100 *													110
115	44.0	305.1	28,500 *	53.4	318.8	34,400 *	58.5	324.1	36,300 *													115
120	40.9	299.6	27,300 *	50.8	314.9	33,200 *	56.1	320.9	34,400 *													120
125	37.7	293.5	26,100 *	48.2	310.6	32,100 *	53.6	317.3	32,600 *	61.8	324.1	28,200 *										125
130	34.2	286.6	25,000 *	45.3	305.9	30,900 *	51.0	313.5	31,000 *	59.5	321.3	26,800 *										130
135	30.4	278.7	24,000 *	42.4	300.7	29,800 *	48.3	309.2	29,500 *	57.1	318.2	25,400 *										135
140	26.1	269.4	23,100 *	39.3	294.9	28,800 *	45.5	304.6	28,100 *	54.6	314.8	24,200 *										140
145	20.9	257.9	22,200 *	35.9	288.4	27,800 *	42.6	299.4	26,800 *	52.1	311.1	23,100 *										145
150	14.1	242.0	21,600 *	32.3	281.0	26,800 *	39.5	293.7	25,600 *	49.4	307.0	22,000 *	57.9	313.8	18,500 *							150
155				28.2	272.4	25,900 *	36.1	287.2	24,500 *	46.7	302.5	21,100 *	55.4	310.5	17,600 *							155
160				23.5	262.1	25,100 *	32.5	279.9	23,500 *	43.8	297.6	20,100 *	52.9	306.9	16,800 *							160
170				8.7	227.5	23,400 *	23.8	261.2	21,600 *	37.5	285.9	18,500 *	47.6	298.5	15,400 *							170
180							9.6	227.9	19,800 *	30.1	271.0	17,000 *	41.7	288.4	14,100 *	50.8	296.9	11,300 *				180
190										20.6	249.9	15,600 *	35.1	275.8	12,900 *	45.3	287.9	10,300 *				190
200													27.2	259.3	11,900 *	39.2	276.9	9,400 *				200
210													16.1	234.2	10,900 *	32.2	263.0	8,600 *	42.6	274.9	6,300 *	210
220																23.4	244.1	7,800 *	36.1	262.7	5,700 *	220
230																8.6	209.2	7,100 *	28.5	246.9	5,100 *	230
240																		7,100 *	18.1	223.7	4,500 *	240



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

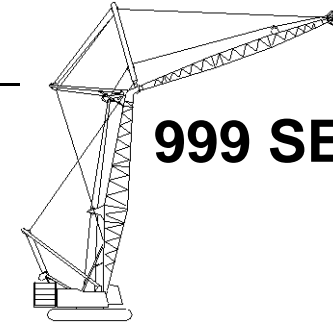
Designed And Tested
 With The Intent To Be In
 The Scope of ANSI B30.5

200 Ft. Boom, 150 Ft. Jib

Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			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	352.2	39,800 *																			55
60	72.2	350.7	38,900 *																			60
65	70.2	349.0	38,000 *																			65
70	68.2	347.1	37,000 *																			70
75	66.1	345.0	36,000 *																			75
80	64.0	342.7	35,000 *																			80
85	61.8	340.1	33,900 *	69.1	346.5	38,300 *																85
90	59.7	337.3	32,700 *	67.1	344.5	37,200 *																90
95	57.4	334.3	31,500 *	65.0	342.3	36,100 *																95
100	55.1	330.9	30,400 *	62.9	339.8	35,000 *	67.2	343.0	36,800 *													100
105	52.8	327.3	29,200 *	60.7	337.1	33,800 *	65.1	340.7	35,900 *													105
110	50.3	323.3	28,100 *	58.5	334.2	32,700 *	63.0	338.3	34,900 *													110
115	47.8	319.0	27,000 *	56.2	331.0	31,500 *	60.9	335.6	33,800 *													115
120	45.2	314.2	26,000 *	53.9	327.5	30,400 *	58.6	332.7	32,800 *													120
125	42.4	309.0	25,000 *	51.5	323.7	29,200 *	56.4	329.5	31,700 *													125
130	39.5	303.2	24,000 *	49.0	319.5	28,100 *	54.1	326.1	30,600 *	61.7	332.8	26,700										130
135	36.4	296.8	23,100 *	46.4	315.0	27,100 *	51.7	322.3	29,400	59.5	330.0	25,300										135
140	33.0	289.6	22,200 *	43.7	310.0	26,000 *	49.2	318.2	28,000	57.3	326.9	24,100										140
145	29.3	281.3	21,400 *	40.9	304.5	25,000 *	46.6	313.6	26,700	55.0	323.5	23,000										145
150	25.2	271.6	20,600 *	37.9	298.4	24,000 *	43.9	308.7	25,600	52.6	319.9	21,900										150
155	20.2	259.7	19,900 *	34.7	291.6	23,100 *	41.1	303.2	24,400	50.2	315.9	21,000	58.0	322.4	17,500							155
160	13.6	243.2	19,300 *	31.1	283.9	22,200 *	38.1	297.2	23,400	47.6	311.5	20,000	55.7	319.2	16,700							160
170				22.7	264.2	20,600 *	31.4	282.8	21,500	42.2	301.5	18,400	51.0	311.7	15,300							170
180				8.4	228.2	19,300 *	23.0	263.3	19,800	36.2	289.2	16,900	45.8	302.9	14,000							180
190							9.2	228.7	18,300	29.1	273.6	15,600	40.3	292.2	12,800	49.0	301.6	10,200				190
200										19.9	251.7	14,400	33.9	278.9	11,800	43.7	292.0	9,300				200
210													26.3	261.7	10,900	37.9	280.4	8,500	46.6	289.1	6,200	210
220													15.6	235.6	10,000	31.1	265.9	7,800	41.1	278.7	5,600	220
230																22.6	246.1	7,100	34.9	265.9	5,000	230
240																8.3	210.0	6,400	27.5	249.4	4,500	240
250																			17.5	225.3	4,000	250

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



999 SERIES 2

Liftcrane Luffing Jib Capacities

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

200 Ft. Boom, 160 Ft. Jib

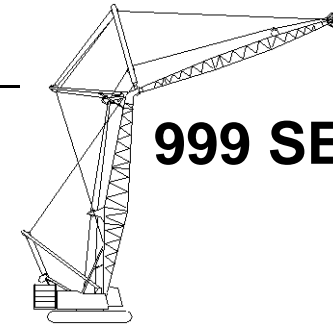
Jib Oper. Rad. Feet	88 Degree Boom Angle			83 Degree Boom Angle			80 Degree Boom Angle			75 Degree Boom Angle			70 Degree Boom Angle			65 Degree Boom Angle			60 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
55	75.2	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	31,600 *													110
115	51.0	332.1	24,200 *	58.6	342.9	28,500 *	62.8	347.0	30,600 *													115
120	48.6	327.9	23,200 *	56.5	339.7	27,300 *	60.8	344.3	29,600 *													120
125	46.2	323.3	22,200 *	54.3	336.2	26,200 *	58.7	341.4	28,600 *													125
130	43.6	318.3	21,200 *	52.1	332.5	25,200 *	56.6	338.2	27,500 *													130
135	41.0	312.8	20,300 *	49.7	328.4	24,100 *	54.4	334.8	26,400 *	61.6	341.4	24,900										135
140	38.2	306.8	19,400 *	47.4	324.0	23,100 *	52.2	331.1	25,400 *	59.6	338.6	23,700										140
145	35.2	300.1	18,500 *	44.9	319.2	22,100 *	49.9	327.0	24,300 *	57.5	335.6	22,600										145
150	31.9	292.5	17,700 *	42.3	313.9	21,100 *	47.5	322.6	23,300 *	55.3	332.2	21,500										150
155	28.4	283.9	17,000 *	39.5	308.2	20,200 *	45.0	317.9	22,300 *	53.1	328.6	20,600										155
160	24.3	273.8	16,200 *	36.6	301.8	19,300 *	42.5	312.6	21,400 *	50.8	324.7	19,700										160
170	13.2	244.4	15,000 *	30.1	286.6	17,700 *	36.8	300.6	19,600 *	46.0	315.8	18,000	53.8	324.4	14,900							170
180				22.0	266.1	16,200 *	30.4	285.5	17,900 *	40.8	305.3	16,500	49.2	316.4	13,600							180
190				8.1	228.9	15,000 *	22.3	265.3	16,400 *	35.0	292.4	15,200	44.3	307.0	12,500	52.0	314.5	9,700				190
200							8.9	229.5	15,100 *	28.2	276.2	14,000	38.9	295.8	11,400	47.3	306.0	8,900				200
210										19.2	253.4	13,000	32.8	281.9	10,500	42.2	296.0	8,100				210
220													25.4	264.0	9,600	36.6	283.8	7,400	45.0	293.4	5,100	220
230													15.1	236.9	8,800	30.1	268.6	6,700	39.7	282.4	4,600	230
240																21.9	248.1	6,100	33.7	269.0	4,100	240
250																8.0	210.7	5,500				250



Liftcrane Luffing Jib Capacities

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			65 Degree Boom Angle			Jib Oper. Rad. Feet
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	
60	74.4	371.6	32,300 *																60
65	72.6	370.1	31,700 *																65
70	70.8	368.5	31,000 *																70
75	69.1	366.6	30,400 *																75
80	67.2	364.6	29,600 *																80
85	65.4	362.4	28,400 *																85
90	63.5	360.0	27,300 *	69.9	366.0	30,200 *													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	27,000 *										120
125	49.3	336.8	20,000 *	56.7	348.4	23,900 *	60.8	353.0	26,000 *										125
130	47.1	332.4	19,000 *	54.6	344.9	22,800 *	58.8	350.1	25,000 *										130
135	44.7	327.5	18,100 *	52.5	341.2	21,800 *	56.8	346.9	24,000 *										135
140	42.3	322.2	17,300 *	50.4	337.3	20,800 *	54.8	343.5	23,000 *	61.5	350.1	23,400							140
145	39.7	316.5	16,400 *	48.2	333.0	19,900 *	52.7	339.8	22,000 *	59.6	347.3	22,300							145
150	37.0	310.2	15,700 *	45.9	328.3	18,900 *	50.5	335.9	21,000 *	57.6	344.2	21,300							150
155	34.1	303.2	14,900 *	43.5	323.2	18,000 *	48.3	331.6	20,100 *	55.6	340.9	20,300							155
160	31.0	295.3	14,200 *	41.0	317.7	17,200 *	46.0	327.0	19,200 *	53.5	337.4	19,400							160
170	23.6	276.0	12,800 *	35.5	305.0	15,600 *	41.1	316.5	17,400 *	49.2	329.4	17,700	56.2	336.6	14,600				170
180	12.8	245.5	11,200 *	29.2	289.2	14,100 *	35.7	303.8	15,800 *	44.6	320.0	16,300	52.1	329.3	13,300				180
190				21.3	268.0	12,500 *	29.4	288.2	14,300 *	39.6	308.9	15,000	47.7	320.9	12,200				190
200				7.9	229.6	10,900 *	21.6	267.2	12,600 *	33.9	295.5	13,800	42.9	311.0	11,200	50.4	319.3	8,600	200
210							8.7	230.3	11,000 *	27.3	278.6	12,700	37.7	299.2	10,200	45.8	310.3	7,800	210
220										18.7	255.1	11,800	31.8	284.8	9,400	40.9	299.8	7,100	220
230													24.7	266.2	8,600	35.5	287.0	6,400	230
240													14.6	238.2	7,900	29.2	271.2	5,800	240
250																21.3	250.0	5,200	250
260																7.8	211.4	4,700	260