



# Liftcrane Boom Capacities

Meets  
ANSI B30.5  
Requirements

**Boom No. 22EL**  
**179,100 Lb. Crane Counterweight**  
**44,000 Lb. Carbody Counterweight**  
**360 Degree Rating**

**LIFTING CAPACITIES:** Capacities for various boom lengths and 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 12,500 Lb. minimum weight. Capacities are not shown for boom positions which, without load, provide less than required ANSI B30.5 backward stability.

Upper boom point capacity for liftcrane service with single part whip line is 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

250 Ft. thru 290 Ft. boom lengths require only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. Boom is 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 in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. 177156** or **No. 177353** and Wire Rope Specification chart **No. 7810-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 and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 7808-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, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

**BOOM POINT ELEVATION:** Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

**MACHINE EQUIPMENT:** Machine equipped with 28 Ft. 2 in. extendible crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, four 1-3/8 in. boom pendants, 179,100 Lb. crane counterweight and 44,000 Lb. carbody counterweight.

Maximum capacity on 26 mm OR 1" wire rope is 29,500 lbs. per line (20,000 lbs. when auxiliary drum is used).

<b>Deduct From Capacities When Jib Is Attached</b>	
Jib Length	Jib No. 134
30 Ft.	2,700 Lbs.
40 Ft.	3,500 Lbs.
50 Ft.	4,300 Lbs.
60 Ft.	5,100 Lbs.
70 Ft.	6,100 Lbs.
80 Ft.	7,100 Lbs.

<b>Maximum Boom and Jib Lengths Lifted Unassisted</b>							
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Extended Crawlers		Over Side of Retracted Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 290 Ft.	—	(a) 280 Ft.	—	(a) 260 Ft.	—	230 Ft.	—
280 Ft.	—	270 Ft.	—	250 Ft.	—	220 Ft.	30 Ft.
270 Ft.	—	260 Ft.	40 Ft.	240 Ft.	—	210 Ft.	60 Ft.
260 Ft.	50 Ft.	250 Ft.	70 Ft.	230 Ft.	50 Ft.	200 Ft.	80 Ft.
250 Ft.	80 Ft.	240 Ft.	80 Ft.	220 Ft.	80 Ft.		

Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be used on 290 Ft. boom and cannot be lifted over rear of blocked crawlers on 280 Ft. boom or side of extended crawlers on 260 Ft. boom.

Consult iib chart for iib capacities. Upper boom point cannot be used when iib is attached.



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
<b>70 Ft. Boom</b>				
16	82.8	77.2		441,000 *b
17	82.0	77.1		408,300 *b
18	81.1	76.9		386,800 *b
19	80.3	76.7		367,400 *b
20	79.5	76.5		349,800 *b
22	77.8	76.0		319,000 *b
24	76.1	75.5		293,000 *b
26	74.4	74.9		270,700 *
28	72.7	74.2		251,400 *
30	70.9	73.5		234,400 *
32	69.2	72.7		219,000
34	67.4	71.8		199,600
36	65.6	70.9		183,200
38	63.7	69.8		169,100
40	61.9	68.7		156,900
42	60.0	67.5		146,200
44	58.0	66.2		136,800
46	56.0	64.8	109,400	128,400
48	54.0	63.4	103,100	120,900
50	51.9	61.7	97,500	114,100
55	46.3	57.1	85,500	99,800
60	40.1	51.4	75,700	88,300
65	32.9	44.2	67,700	78,900
70	23.7	34.1	60,800	70,900
<b>80 Ft. Boom</b>				
17	83.0	87.2		405,400 *b
18	82.3	87.0		386,000 *b
19	81.5	86.9		366,700 *b
20	80.8	86.7		349,100 *b
22	79.3	86.3		318,300 *b
24	77.9	85.8		292,200 *b
26	76.4	85.3		270,000 *
28	74.9	84.7		250,600 *
30	73.4	84.1		233,700 *
32	71.9	83.4		218,800 *
34	70.4	82.7		199,800
36	68.8	81.9		183,400
38	67.3	81.0		169,300
40	65.7	80.0		157,000
42	64.1	79.0		146,300
44	62.4	78.0	116,200	136,900
46	60.8	76.8	109,300	128,500
48	59.1	75.6	103,100	120,900
50	57.4	74.3	97,400	114,200
55	52.9	70.6	85,400	99,800
60	48.2	66.2	75,700	88,300
65	43.0	61.0	67,600	78,900
70	37.3	54.8	60,900	71,000
75	30.6	46.9	55,100	64,300
80	22.0	36.0	50,000	58,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
<b>90 Ft. Boom</b>				
19	82.5	97.0		365,000 *b
20	81.8	96.8		348,600 *b
22	80.5	96.5		317,800 *b
24	79.2	96.1		291,800 *b
26	77.9	95.6		269,500 *
28	76.6	95.1		250,200 *
30	75.3	94.6		233,300 *
32	74.0	94.0		218,400 *
34	72.6	93.3		200,100
36	71.3	92.6		183,600
38	69.9	91.8		169,400
40	68.6	91.0		157,200
42	67.2	90.1	124,000	146,400
44	65.8	89.2	116,300	137,000
46	64.3	88.2	109,300	128,500
48	62.9	87.2	103,100	121,000
50	61.4	86.0	97,400	114,200
55	57.7	82.9	85,400	99,900
60	53.8	79.3	75,700	88,400
65	49.6	75.2	67,600	79,000
70	45.2	70.4	60,900	71,100
75	40.4	64.7	55,200	64,400
80	35.0	57.9	50,200	58,700
85	28.7	49.4	45,800	53,600
90	20.7	37.7	41,900	49,200



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**Boom No. 22EL**  
**179,100 Lb. Crane Counterweight**  
**44,000 Lb. Carbody Counterweight**  
**360 Degree Rating**

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
<b>100 Ft. Boom</b>				
20	82.7	107.0		348,200 *b
22	81.5	106.6		317,500 *b
24	80.3	106.3		291,500 *b
26	79.2	105.9		269,200 *
28	78.0	105.4		249,900 *
30	76.8	104.9		233,000 *
32	75.6	104.4		218,100 *
34	74.4	103.8		200,200
36	73.2	103.2		183,700
38	72.0	102.5		169,600
40	70.8	101.8		157,300
42	69.6	101.0	124,100	146,600
44	68.3	100.2	116,300	137,100
46	67.1	99.3	109,400	128,600
48	65.8	98.4	103,100	121,100
50	64.6	97.4	97,500	114,300
55	61.3	94.7	85,400	100,000
60	57.9	91.6	75,700	88,500
65	54.4	88.1	67,700	79,100
70	50.8	84.1	61,000	71,200
75	46.9	79.5	55,300	64,500
80	42.7	74.3	50,300	58,800
85	38.2	68.1	46,000	53,800
90	33.1	60.8	42,200	49,400
95	27.2	51.7	38,800	45,500
100	19.5	39.4	35,700	42,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
<b>110 Ft. Boom</b>				
22	82.3	116.8		316,900 *
24	81.2	116.4		290,900 *
26	80.2	116.1		268,600 *
28	79.1	115.7		249,300 *
30	78.0	115.2		232,400 *
32	77.0	114.7		217,500 *
34	75.9	114.2		200,300
36	74.8	113.6		183,700
38	73.7	113.0		169,600
40	72.6	112.4	132,800	157,300
42	71.5	111.7	124,000	146,500
44	70.4	110.9	116,200	137,000
46	69.3	110.2	109,200	128,500
48	68.2	109.3	103,000	121,000
50	67.0	108.5	97,300	114,200
55	64.1	106.1	85,200	99,800
60	61.2	103.4	75,500	88,300
65	58.1	100.3	67,500	78,900
70	55.0	96.8	60,800	71,000
75	51.7	93.0	55,000	64,300
80	48.2	88.6	50,100	58,600
85	44.5	83.6	45,800	53,600
90	40.6	77.9	42,000	49,300
95	36.3	71.4	38,600	45,400
100	31.5	63.6	35,600	41,900
105	25.8	54.0	32,800	38,800
110	18.6	40.9	30,300	36,000



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**44,000 Lb. Carbody Counterweight**  
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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
<b>120 Ft. Boom</b>				
22	82.9	126.9		309,900 *
24	82.0	126.6		290,400 *
26	81.0	126.2		268,100 *
28	80.0	125.9		248,800 *
30	79.1	125.5		232,000 *
32	78.1	125.0		217,100 *
34	77.1	124.5		200,300
36	76.1	124.0		183,700
38	75.1	123.5	142,600	169,500
40	74.1	122.9	132,700	157,200
42	73.1	122.2	123,900	146,400
44	72.1	121.6	116,100	136,900
46	71.1	120.9	109,100	128,500
48	70.1	120.1	102,800	120,900
50	69.1	119.3	97,200	114,100
55	66.5	117.2	85,100	99,700
60	63.8	114.7	75,400	88,200
65	61.1	112.0	67,300	78,800
70	58.3	109.0	60,600	70,900
75	55.4	105.6	54,900	64,200
80	52.4	101.8	50,000	58,500
85	49.3	97.5	45,700	53,500
90	46.0	92.8	41,900	49,200
95	42.5	87.5	38,500	45,300
100	38.7	81.4	35,500	41,900
105	34.6	74.4	32,800	38,800
110	30.0	66.2	30,400	36,000
115	24.7	56.1	28,100	33,500
120	17.7	42.4	26,000	31,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
<b>130 Ft. Boom</b>				
24	82.6	136.7		285,200 *
26	81.7	136.4		267,800 *
28	80.8	136.0		248,600 *
30	79.9	135.7		231,700 *
32	79.0	135.3		216,800 *
34	78.1	134.8		200,400
36	77.2	134.3	154,100	183,800
38	76.3	133.8	142,600	169,600
40	75.4	133.3	132,700	157,300
42	74.5	132.7	123,900	146,500
44	73.5	132.1	116,100	137,000
46	72.6	131.5	109,100	128,500
48	71.7	130.8	102,800	120,900
50	70.7	130.1	97,100	114,100
55	68.4	128.1	85,100	99,700
60	66.0	125.9	75,300	88,200
65	63.5	123.4	67,300	78,800
70	61.0	120.7	60,600	70,900
75	58.4	117.6	54,900	64,200
80	55.8	114.3	49,900	58,500
85	53.0	110.6	45,600	53,500
90	50.2	106.5	41,900	49,200
95	47.2	101.9	38,500	45,300
100	44.0	96.8	35,500	41,900
105	40.7	91.2	32,800	38,800
110	37.1	84.8	30,400	36,100
115	33.2	77.4	28,200	33,500
120	28.8	68.7	26,100	31,200
125	23.6	58.1	24,300	29,100
130	17.0	43.8	22,500	27,100

# MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



## LIFTCRANE JIB CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

**JIB NO. 134 WITH 12'6" STRUT ON  
BOOM NO. 22EL  
179,100 LB. CRANE COUNTERWEIGHT  
44,000 LB. CARBODY COUNTERWEIGHT  
28'2" CRAWLERS EXTENDED  
360 DEGREE RATING**

CHART SUPPLEMENTS BOOM CAPACITY CHART NO. 7813-A. CAPACITIES FOR VARIOUS BOOM LENGTHS, JIB LENGTHS AND JIB OPERATING RADIUS 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 (\*).

250' THRU 290' BOOM LENGTHS REQUIRE ONLY THE MIDDLE TWO SHEAVES IN LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM LOWER BOOM POINT.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF JIB LOAD. BOOM AND JIB ARE NOT TO BE LOWERED BEYOND RADIUS WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH CRAWLERS FULLY EXTENDED AND GANTRY UP. REFER TO BOOM RIGGING NO. 177156 OR NO. 177353, JIB ASSEMBLY NO. 177062, AND WIRE ROPE SPECIFICATION CHART NO. 7810-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 TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART. REFER TO MAXIMUM ALLOWABLE TRAVEL SPECIFICATION CHART NO. 7808-A.

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, AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. JIB POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF JIB POINT SHAFT.

MACHINE EQUIPPED WITH 28'2" CRAWLERS, 48" TREADS, 10'3" RETRACTABLE GANTRY, 30' LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 179,100 LB. CRANE COUNTERWEIGHT AND 44,000 LB. CARBODY COUNTERWEIGHT.

MAXIMUM CAPACITY ON 26 mm OR 1" WIRE ROPE IS 29,500 LBS. PER LINE (20,000 LBS. WHEN AUXILIARY DRUM IS USED).

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED							
OVER FRONT OF BLOCKED CRAWLERS		OVER REAR OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		OVER SIDE OF RETRACTED CRAWLERS	
BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134	BOOM LENGTH	JIB NO. 134
(a) 290'	---	(a) 280'	---	(a) 260'	---	230'	---
280'	---	270'	---	250'	---	220'	30'
270'	---	260'	40'	240'	---	210'	60'
260'	50'	250'	70'	230'	50'	200'	80'
250'	80'	240'	80'	220'	80'		

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 290' BOOM AND CANNOT BE LIFTED OVER REAR OF BLOCKED CRAWLERS ON 280' BOOM OR SIDE OF EXTENDED CRAWLERS ON 260' BOOM.

### 30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
90	30	79.2	125.4	59,000*							30
	35	76.7	124.3	59,000*	79.2	123.5	59,000*				35
	40	74.2	122.9	59,000*	76.7	122.1	59,000*	79.3	120.4	48,900*	40
	45	71.7	121.2	59,000*	74.2	120.4	58,100*	76.7	118.7	46,200*	45
	50	69.2	119.3	59,000*	71.6	118.5	57,100*	74.1	116.8	43,800*	50
	55	66.6	117.2	59,000*	69.0	116.4	56,200*	71.4	114.6	41,700*	55
	60	63.9	114.7	58,100*	66.3	113.9	55,300*	68.7	112.1	39,900*	60
	65	61.2	112.0	57,100*	63.6	111.2	54,600*	65.9	109.3	38,200*	65
	70	58.4	108.9	56,100*	60.8	108.1	53,900*	63.0	106.1	36,700*	70
	75	55.5	105.5	55,300*	57.9	104.7	51,700*	60.1	102.6	35,400*	75
	80	52.5	101.7	54,600*	54.8	100.8	49,300*	57.0	98.7	34,200*	80
	85	49.4	97.5	53,900*	51.7	96.5	47,100*	53.7	94.3	33,100*	85
	90	46.1	92.8	52,100	48.4	91.8	45,200*	50.3	89.4	32,200*	90
	100	38.9	81.4	44,900	41.0	80.2	41,900*	42.7	77.5	30,600*	100
110	30.2	66.2	39,000	32.1	64.7	39,200				110	

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JIB NO. 134 WITH 12'6" STRUT ON  
BOOM NO. 22EL  
179,100 LB. CRANE COUNTERWEIGHT  
44,000 LB. CARBODY COUNTERWEIGHT  
28'2" CRAWLERS EXTENDED  
360 DEGREE RATING

### 30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
100	30	80.0	135.6	59,000*							30
	35	77.8	134.6	59,000*	80.1	133.8	59,000*				35
	40	75.5	133.3	59,000*	77.8	132.5	59,000*	80.1	130.8	49,900*	40
	45	73.2	131.8	59,000*	75.5	131.0	58,700*	77.8	129.2	47,300*	45
	50	70.9	130.0	59,000*	73.1	129.2	57,700*	75.4	127.5	45,000*	50
	55	68.5	128.1	59,000*	70.8	127.3	56,800*	73.0	125.5	42,900*	55
	60	66.1	125.9	59,000*	68.3	125.0	56,000*	70.5	123.2	41,100*	60
	65	63.6	123.4	58,000*	65.9	122.6	55,200*	68.0	120.7	39,400*	65
	70	61.1	120.7	57,100*	63.3	119.8	54,500*	65.4	117.9	38,000*	70
	75	58.5	117.6	56,200*	60.7	116.7	53,800*	62.8	114.8	36,600*	75
	80	55.9	114.3	55,400*	58.0	113.3	51,800*	60.1	111.3	35,400*	80
	85	53.1	110.5	54,700*	55.3	109.6	49,600*	57.2	107.5	34,300*	85
90	50.3	106.4	51,900	52.4	105.5	47,600*	54.3	103.2	33,300*	90	
100	44.2	96.8	44,600	46.2	95.7	44,100*	47.9	93.3	31,600*	100	
110	37.2	84.7	38,800	39.2	83.5	39,100				110	
120	28.9	68.7	33,900	30.7	67.1	34,200				120	
110	30	80.7	145.8	59,000*							30
	35	78.7	144.8	59,000*	80.8	144.0	59,000*				35
	40	76.5	143.6	59,000*	78.7	142.8	59,000*	80.9	141.1	50,800*	40
	45	74.4	142.2	59,000*	76.6	141.4	59,000*	78.7	139.7	48,300*	45
	50	72.3	140.6	59,000*	74.4	139.8	58,200*	76.5	138.0	46,000*	50
	55	70.1	138.8	59,000*	72.2	138.0	57,400*	74.3	136.2	44,000*	55
	60	67.9	136.8	59,000*	70.0	136.0	56,500*	72.1	134.1	42,200*	60
	65	65.7	134.6	59,000*	67.7	133.7	55,800*	69.8	131.8	40,600*	65
	70	63.4	132.1	57,900*	65.4	131.2	55,100*	67.4	129.3	39,100*	70
	75	61.0	129.3	57,000*	63.1	128.4	54,400*	65.0	126.5	37,700*	75
	80	58.6	126.3	56,200*	60.7	125.4	53,800*	62.6	123.4	36,500*	80
	85	56.2	123.0	55,500*	58.2	122.0	51,900*	60.1	120.0	35,400*	85
90	53.6	119.3	51,400	55.6	118.4	49,900*	57.5	116.2	34,400*	90	
100	48.3	110.9	44,200	50.2	109.9	44,700	51.9	107.5	32,600*	100	
110	42.4	100.7	38,300	44.3	99.5	38,700	45.9	96.9	31,100*	110	
120	35.8	87.9	33,500	37.6	86.6	33,800				120	
130	27.8	71.1	29,500							130	
120	35	79.4	155.0	59,000*							35
	40	77.5	153.9	59,000*	79.5	153.1	59,000*				40
	45	75.5	152.6	59,000*	77.5	151.8	59,000*	79.5	150.0	49,100*	45
	50	73.5	151.2	59,000*	75.5	150.4	58,700*	77.5	148.5	47,000*	50
	55	71.5	149.5	59,000*	73.5	148.7	57,800*	75.4	146.8	45,000*	55
	60	69.4	147.6	59,000*	71.4	146.8	57,100*	73.4	144.9	43,200*	60
	65	67.4	145.5	59,000*	69.3	144.7	56,300*	71.2	142.8	41,600*	65
	70	65.3	143.3	58,700*	67.2	142.4	55,600*	69.1	140.5	40,100*	70
	75	63.1	140.7	57,800*	65.1	139.9	54,900*	66.9	137.9	38,800*	75
	80	61.0	138.0	57,000*	62.9	137.1	54,400*	64.7	135.1	37,500*	80
	85	58.7	135.0	55,500	60.6	134.0	53,800*	62.4	132.0	36,400*	85
	90	56.4	131.7	51,100	58.3	130.7	51,800	60.1	128.6	35,400*	90
100	51.7	124.1	43,800	53.5	123.2	44,400	55.1	120.9	33,600*	100	
110	46.5	115.2	38,000	48.3	114.1	38,500	49.9	111.7	32,000*	110	
120	40.9	104.4	33,200	42.6	103.2	33,600	44.0	100.4	30,800*	120	
130	34.5	91.0	29,200	36.1	89.6	29,500				130	
140	26.8	73.5	25,800							140	
130	35	80.1	165.2	59,000*							35
	40	78.3	164.2	59,000*	80.2	163.4	59,000*				40
	45	76.4	163.0	59,000*	78.3	162.2	59,000*	80.2	160.4	49,900*	45
	50	74.6	161.6	59,000*	76.4	160.8	59,000*	78.3	159.0	47,800*	50
	55	72.7	160.1	59,000*	74.5	159.2	58,300*	76.4	157.4	45,900*	55
	60	70.8	158.3	59,000*	72.6	157.5	57,500*	74.5	155.6	44,100*	60
	65	68.9	156.4	59,000*	70.7	155.5	56,800*	72.5	153.7	42,600*	65
	70	66.9	154.3	59,000*	68.8	153.4	56,100*	70.5	151.5	41,100*	70
	75	65.0	151.9	58,600*	66.8	151.1	55,500*	68.5	149.1	39,800*	75
	80	62.9	149.4	57,700*	64.7	148.5	54,900*	66.5	146.5	38,500*	80
	85	60.9	146.6	55,200	62.7	145.7	54,300*	64.4	143.7	37,400*	85
	90	58.8	143.6	50,900	60.6	142.7	51,600	62.2	140.6	36,300*	90
100	54.5	136.8	43,600	56.2	135.8	44,200	57.8	133.6	34,500*	100	
110	49.9	128.8	37,800	51.6	127.8	38,300	53.1	125.4	32,900*	110	
120	44.9	119.3	33,000	46.6	118.2	33,400	48.0	115.6	31,600*	120	
130	39.5	107.9	29,000	41.1	106.7	29,300	42.4	103.8	29,600	130	
140	33.4	93.9	25,600	34.9	92.5	25,800				140	
150	25.9	75.7	22,600							150	



# MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



## LIFTCRANE JIB CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

JIB NO. 134 WITH 12'6" STRUT ON  
BOOM NO. 22EL  
179,100 LB. CRANE COUNTERWEIGHT  
44,000 LB. CARBODY COUNTERWEIGHT  
28'2" CRAWLERS EXTENDED  
360 DEGREE RATING

### 40 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	5 DEGREE OFFSET			15 DEGREE OFFSET			25 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
90	30	80.7	135.6	53,500*							30
	35	78.5	134.5	51,900*							35
	40	76.2	133.2	50,400*	79.2	132.2	46,000*				40
	45	73.9	131.7	48,900*	76.9	130.7	44,900*	80.0	128.5	39,500*	45
	50	71.6	130.0	47,600*	74.6	128.9	43,800*	77.7	126.7	37,400*	50
	55	69.2	128.0	46,400*	72.2	126.9	42,900*	75.2	124.7	35,600*	55
	60	66.8	125.8	45,300*	69.8	124.7	42,000*	72.7	122.4	34,000*	60
	65	64.3	123.3	44,200*	67.3	122.2	41,200*	70.2	119.9	32,600*	65
	70	61.8	120.6	43,300*	64.7	119.5	40,500*	67.6	117.0	31,300*	70
	75	59.2	117.5	42,300*	62.1	116.4	39,800*	64.9	113.9	30,100*	75
	80	56.6	114.2	41,500*	59.4	113.0	38,600*	62.2	110.4	29,000*	80
	85	53.8	110.5	40,700*	56.7	109.2	36,700*	59.3	106.5	28,000*	85
90	51.0	106.3	40,000*	53.8	105.1	35,100*	56.4	102.3	27,200*	90	
100	44.8	96.7	38,300*	47.5	95.3	32,300*	49.9	92.2	25,700*	100	
110	37.9	84.6	34,800*	40.5	82.9	30,000*				110	
120	29.6	68.6	31,900*	31.9	66.4	28,200*				120	
100	35	79.3	144.7	52,500*							35
	40	77.2	143.6	51,000*	80.0	142.5	46,400*				40
	45	75.1	142.2	49,700*	77.9	141.1	45,300*	80.8	138.9	40,200*	45
	50	72.9	140.6	48,400*	75.7	139.5	44,300*	78.6	137.2	38,200*	50
	55	70.7	138.8	47,200*	73.5	137.7	43,400*	76.4	135.4	36,500*	55
	60	68.5	136.7	46,100*	71.3	135.6	42,600*	74.1	133.3	34,900*	60
	65	66.3	134.5	45,100*	69.0	133.4	41,800*	71.8	131.0	33,500*	65
	70	64.0	132.0	44,100*	66.7	130.9	41,100*	69.4	128.4	32,200*	70
	75	61.7	129.2	43,200*	64.4	128.1	40,400*	67.0	125.6	31,000*	75
	80	59.3	126.2	42,400*	62.0	125.0	39,800*	64.6	122.4	29,900*	80
	85	56.8	122.9	41,600*	59.5	121.7	38,600*	62.0	119.0	28,900*	85
	90	54.3	119.2	40,900*	56.9	118.0	36,900*	59.4	115.2	28,100*	90
100	48.9	110.8	39,600*	51.5	109.4	34,000*	53.8	106.5	26,500*	100	
110	43.1	100.6	37,300*	45.5	99.0	31,500*	47.7	95.7	25,300*	110	
120	36.4	87.8	34,200*	38.8	86.0	29,500*				120	
130	28.4	71.0	30,700							130	
110	35	80.0	155.0	53,000*							35
	40	78.1	153.9	51,600*	80.7	152.8	46,700*				40
	45	76.1	152.6	50,300*	78.7	151.5	45,700*				45
	50	74.1	151.1	49,100*	76.7	150.0	44,800*	79.4	147.7	38,900*	50
	55	72.1	149.4	47,900*	74.7	148.3	43,900*	77.4	146.0	37,200*	55
	60	70.1	147.5	46,900*	72.6	146.4	43,100*	75.3	144.0	35,700*	60
	65	68.0	145.5	45,800*	70.6	144.3	42,300*	73.1	141.9	34,300*	65
	70	65.9	143.2	44,900*	68.4	142.0	41,600*	71.0	139.6	33,000*	70
	75	63.7	140.7	44,000*	66.3	139.5	40,900*	68.8	137.0	31,800*	75
	80	61.6	137.9	43,200*	64.1	136.7	40,300*	66.5	134.1	30,800*	80
	85	59.3	134.9	42,400*	61.8	133.7	39,700*	64.2	131.0	29,800*	85
	90	57.0	131.6	41,600*	59.5	130.3	38,600*	61.9	127.6	28,900*	90
100	52.3	124.1	40,300*	54.7	122.7	35,600*	56.9	119.8	27,300*	100	
110	47.1	115.1	39,100	49.5	113.6	33,000*	51.6	110.5	26,000*	110	
120	41.5	104.3	34,300	43.8	102.7	30,900*	45.7	99.1	24,900*	120	
130	35.1	90.9	30,200	37.2	89.0	29,200*				130	
140	27.4	73.3	26,800							140	
120	35	80.7	165.2	53,500*							35
	40	78.8	164.1	52,200*							40
	45	77.0	162.9	50,900*	79.5	161.8	46,100*				45
	50	75.1	161.5	49,700*	77.6	160.4	45,200*	80.1	158.1	39,500*	50
	55	73.3	160.0	48,600*	75.7	158.9	44,300*	78.2	156.5	37,900*	55
	60	71.4	158.2	47,500*	73.8	157.1	43,500*	76.3	154.7	36,400*	60
	65	69.4	156.3	46,600*	71.9	155.2	42,800*	74.3	152.7	35,000*	65
	70	67.5	154.2	45,600*	69.9	153.0	42,100*	72.3	150.5	33,800*	70
	75	65.5	151.9	44,700*	67.9	150.7	41,400*	70.3	148.2	32,600*	75
	80	63.5	149.3	43,900*	65.9	148.1	40,800*	68.2	145.5	31,500*	80
	85	61.5	146.5	43,100*	63.8	145.3	40,200*	66.1	142.7	30,600*	85
	90	59.4	143.5	42,400*	61.7	142.3	39,700*	63.9	139.6	29,700*	90
100	55.0	136.7	41,100*	57.3	135.4	37,200*	59.5	132.6	28,100*	100	
110	50.4	128.7	38,700	52.7	127.3	34,500*	54.7	124.3	26,700*	110	
120	45.5	119.2	33,900	47.7	117.7	32,300*	49.6	114.4	25,600*	120	
130	40.1	107.8	29,900	42.2	106.1	30,300	43.9	102.4	24,700*	130	
140	33.9	93.8	26,500	35.9	91.8	26,800				140	
150	26.4	75.5	23,500							150	