

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

BOOM NO. 22C WITH OPEN THROAT TOP
146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED
360 DEGREE RATING

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 (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 28,300 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF UPPER BOOM POINT, JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE 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.

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. 190693 AND WIRE ROPE SPECIFICATION CHART NO. 6592-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.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS THE 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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 26'6" EXTENDIBLE CRAWLERS, 48" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 1ST COUNTERWEIGHT = 41,900 LBS., 2ND COUNTERWEIGHT = 41,500 LBS., 3RD COUNTERWEIGHT = 39,000 LBS., TWO 12,000 LB. SIDE COUNTERWEIGHTS, AND TWO 30,000 LB. CARBODY COUNTERWEIGHTS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER END OF CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		ONE SHEAVE POINT 1,200 LBS. TWO SHEAVE POINT 1,500 LBS.		JIB LGTH.	JIB NO. 123
BOOM LGTH.	JIB NO. 123	BOOM LGTH.	JIB NO. 123	TO COMPLY WITH B30.5 REQUIREMENTS, UPPER BOOM POINT CANNOT BE USED ON 260'			
260'	---	260'	---			30'	3,000 LBS.
250'	---	250'	---			40'	3,600 LBS.
240'	40'	240'	40'			50'	4,200 LBS.
230'	60'	230'	60'			60'	4,900 LBS.
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.				BOOM.		JIB DEDUCTS INCLUDE JIB ADAPTOR.	

CONSULT JIB CHART FOR JIB CAPACITIES.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
	16.5	79.7	75.9	460,000*		17	80.6	85.9	392,800*		18	81.1	95.9	355,400*
	17	79.3	75.8	400,000*		18	79.9	85.8	378,900*		19	80.4	95.7	346,900*
	18	78.5	75.6	380,100*		19	79.2	85.6	361,800*		20	79.8	95.6	336,900*
	19	77.6	75.4	363,000*		20	78.5	85.4	346,100*		22	78.5	95.2	317,400*
	20	76.8	75.2	347,300*		22	77.0	85.0	318,400*		24	77.2	94.8	291,700*
	22	75.1	74.7	319,600*		24	75.5	84.5	292,500*		26	75.9	94.3	264,800*
	24	73.4	74.1	293,400*		26	74.0	83.9	265,600*		28	74.5	93.7	236,600
	26	71.7	73.5	266,100		28	72.5	83.3	237,000		30	73.2	93.2	213,400
	28	69.9	72.8	237,500		30	71.0	82.7	213,800		32	71.9	92.5	194,200
	30	68.2	72.0	214,300		32	69.5	81.9	194,600		34	70.5	91.9	178,000
	32	66.4	71.2	195,100		34	68.0	81.2	178,500		36	69.2	91.1	164,200
	34	64.6	70.3	178,900		36	66.4	80.3	164,700		38	67.8	90.3	152,300
	36	62.8	69.3	165,200		38	64.8	79.4	152,800		40	66.4	89.5	142,000
	38	60.9	68.2	153,300		40	63.3	78.4	142,400		45	62.9	87.1	121,100
	40	59.1	67.0	143,000		45	59.2	75.7	121,500		50	59.3	84.4	105,200
	45	54.1	63.7	122,100		50	54.9	72.5	105,700		55	55.5	81.2	92,800
	50	48.9	59.8	106,300		55	50.4	68.6	93,300		60	51.5	77.5	82,900
	55	43.2	55.0	93,900		60	45.6	64.1	83,400		65	47.3	73.2	74,700
	60	36.9	49.0	84,000		65	40.3	58.8	75,200		70	42.8	68.2	67,800
	65	29.4	41.3	75,800		70	34.4	52.2	68,300		75	37.9	62.3	62,000
	70	19.5	30.3	63,900*		75	27.4	43.9	62,500		80	32.4	55.2	57,000
						80	18.2	32.0	53,900*		85	25.8	46.2	52,600
											90	17.1	33.5	45,900*

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 360 DEGREE RATING

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4100W SERIES 2

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
100	19	81.4	105.9	332,900*
	20	80.8	105.7	327,100*
	22	79.6	105.4	316,200*
	24	78.5	105.0	290,800*
	26	77.3	104.6	263,900*
	28	76.1	104.1	236,200
	30	74.9	103.6	212,900
	32	73.7	103.0	193,700
	34	72.5	102.4	177,500
	36	71.3	101.7	163,700
110	38	70.1	101.0	151,800
	40	68.9	100.3	141,400
	45	65.8	98.2	120,500
	50	62.6	95.8	104,700
	55	59.3	93.0	92,300
	60	55.9	89.9	82,300
	65	52.4	86.2	74,100
	70	48.7	82.1	67,200
	75	44.8	77.4	61,400
	80	40.5	72.0	56,400
120	85	35.9	65.6	52,000
	90	30.7	58.0	48,200
	95	24.5	48.5	44,900
	100	16.3	35.0	39,300*
	22	80.6	115.5	291,600*
	24	79.5	115.2	282,900*
	26	78.5	114.8	263,200*
	28	77.4	114.4	235,800
	30	76.3	113.9	212,500
	32	75.3	113.4	193,300
34	74.2	112.8	177,100	
36	73.1	112.2	163,300	
38	72.0	111.6	151,400	
40	70.9	110.9	141,000	
45	68.1	109.1	120,100	
50	65.3	106.9	104,200	
55	62.4	104.5	91,800	
60	59.4	101.7	81,800	
65	56.3	98.5	73,600	
70	53.1	95.0	66,800	
75	49.8	91.0	60,900	
80	46.3	86.5	55,900	
85	42.6	81.4	51,600	
90	38.6	75.6	47,800	
95	34.2	68.8	44,400	
100	29.2	60.7	41,400	
105	23.3	50.6	38,700	
110	15.5	36.4	33,900*	
140	22	81.4	125.6	285,000*
	24	80.4	125.3	271,700*
	26	79.4	125.0	259,800*
	28	78.5	124.6	235,300
	30	77.5	124.2	212,100
	32	76.5	123.7	192,800
	34	75.5	123.2	176,600
	36	74.5	122.7	162,800
	38	73.5	122.1	150,900
	40	72.5	121.5	140,500
45	70.0	119.8	119,500	
50	67.5	117.8	103,700	
55	64.8	115.6	91,300	
60	62.2	113.1	81,300	
65	59.4	110.3	73,100	
70	56.6	107.2	66,200	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
120	75	53.7	103.7	60,400
	80	50.7	99.9	55,300
	85	47.5	95.5	51,000
	90	44.2	90.7	47,200
	95	40.7	85.2	43,800
	100	36.9	79.0	40,800
	105	32.7	71.8	38,100
	110	28.0	63.3	35,700
	115	22.3	52.6	33,500
	130	24	81.2	135.5
26		80.3	135.1	248,600*
28		79.4	134.8	234,700*
30		78.5	134.4	211,800
32		77.6	134.0	192,500
34		76.7	133.5	176,300
36		75.7	133.0	162,500
38		74.8	132.5	150,600
40		73.9	131.9	140,200
45		71.6	130.4	119,300
50	69.3	128.6	103,400	
55	66.9	126.6	91,000	
60	64.5	124.3	81,000	
65	62.0	121.8	72,800	
70	59.5	119.0	65,900	
75	56.9	115.9	60,000	
80	54.2	112.5	55,000	
85	51.5	108.7	50,700	
90	48.6	104.5	46,800	
95	45.6	99.8	43,500	
100	42.4	94.7	40,500	
105	39.0	88.9	37,800	
110	35.4	82.3	35,300	
115	31.4	74.7	33,100	
120	26.8	65.7	31,100	
125	21.4	54.5	29,300	
26	81.0	145.3	239,700*	
28	80.1	144.9	230,800*	
30	79.3	144.6	211,300	
32	78.5	144.2	192,100	
34	77.6	143.8	175,800	
36	76.8	143.3	162,000	
38	75.9	142.8	150,100	
40	75.1	142.3	139,700	
45	73.0	140.9	118,700	
50	70.8	139.2	102,800	
55	68.6	137.4	90,400	
60	66.4	135.3	80,400	
65	64.2	133.0	72,200	
70	61.9	130.5	65,300	
75	59.5	127.7	59,500	
80	57.1	124.6	54,400	
85	54.6	121.2	50,100	
90	52.1	117.5	46,200	
95	49.5	113.4	42,900	
100	46.7	108.9	39,900	
105	43.8	104.0	37,200	
110	40.8	98.5	34,700	
115	37.5	92.3	32,500	
120	34.0	85.4	30,500	
125	30.2	77.4	28,700	
130	25.8	68.0	27,000	
135	20.7	56.4	25,500	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
150	28	80.8	155.1	218,600*
	30	80.0	154.7	210,300*
	32	79.2	154.4	191,600
	34	78.5	154.0	175,400
	36	77.7	153.6	161,600
	38	76.9	153.1	149,600
	40	76.1	152.6	139,200
	45	74.1	151.3	118,200
	50	72.1	149.8	102,400
	55	70.1	148.1	89,900
60	68.1	146.2	79,900	
65	66.0	144.0	71,700	
70	63.9	141.7	64,800	
75	61.7	139.1	59,000	
80	59.6	136.3	53,900	
85	57.3	133.3	49,600	
90	55.0	129.9	45,700	
95	52.7	126.2	42,400	
100	50.2	122.3	39,400	
105	47.7	117.9	36,700	
110	45.0	113.1	34,200	
115	42.3	107.9	32,000	
120	39.3	102.1	30,000	
125	36.2	95.7	28,200	
130	32.9	88.4	26,500	
135	29.2	80.1	25,000	
140	25.0	70.3	23,500	
145	19.9	58.2	22,200	
28	81.4	165.2	208,500*	
30	80.6	164.9	203,500*	
32	79.9	164.5	191,100	
34	79.2	164.2	174,900	
36	78.5	163.8	161,000	
38	77.7	163.4	149,100	
40	77.0	162.9	138,700	
45	75.2	161.7	117,700	
50	73.3	160.3	101,800	
55	71.4	158.7	89,300	
60	69.5	156.9	79,300	
65	67.6	154.9	71,100	
70	65.6	152.8	64,200	
75	63.7	150.4	58,400	
80	61.6	147.8	53,300	
85	59.6	145.0	49,000	
90	57.5	141.9	45,100	
95	55.3	138.6	41,800	
100	53.1	135.0	38,700	
105	50.9	131.1	36,000	
110	48.5	126.9	33,600	
115	46.1	122.2	31,400	
120	43.5	117.2	29,400	
125	40.9	111.7	27,600	
130	38.0	105.6	25,900	
135	35.0	98.9	24,300	
140	31.8	91.3	22,900	
145	28.2	82.6	21,600	
150	24.1	72.5	20,400	
155	19.3	59.9	19,200*	

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60,000 LB. CARBODY COUNTERWEIGHT
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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
170	30	81.2	175.0	192,600*
	32	80.5	174.7	188,400*
	34	79.8	174.3	174,600
	36	79.2	174.0	160,800
	38	78.5	173.6	148,800
	40	77.8	173.1	138,400
	45	76.0	172.0	117,400
	50	74.3	170.7	101,500
	55	72.5	169.2	89,100
	60	70.8	167.5	79,000
	65	69.0	165.7	70,800
	70	67.2	163.7	63,900
	75	65.3	161.5	58,100
	80	63.4	159.1	53,000
	85	61.5	156.5	48,700
	90	59.6	153.6	44,900
	95	57.6	150.6	41,500
	100	55.6	147.3	38,500
	105	53.6	143.7	35,800
	110	51.4	139.9	33,300
115	49.2	135.8	31,100	
120	47.0	131.3	29,100	
125	44.6	126.4	27,300	
130	42.2	121.1	25,600	
135	39.6	115.4	24,100	
140	36.9	109.0	22,600	
145	34.0	102.0	21,300	
150	30.8	94.1	20,100	
155	27.3	85.1	18,900	
160	23.4	74.6	17,800	
165	18.7	61.6	16,400*	
180	32	81.1	184.8	180,000*
	34	80.4	184.5	174,100*
	36	79.8	184.1	160,300
	38	79.1	183.8	148,300
	40	78.5	183.4	137,900
	45	76.8	182.3	116,900
	50	75.2	181.0	101,000
	55	73.5	179.6	88,500
	60	71.9	178.1	78,500
	65	70.2	176.4	70,300
	70	68.5	174.5	63,400
	75	66.8	172.4	57,500
	80	65.0	170.2	52,500
	85	63.3	167.8	48,100
	90	61.5	165.1	44,300
	95	59.6	162.3	40,900
	100	57.8	159.3	37,900
	105	55.9	156.0	35,200
	110	53.9	152.5	32,700
	115	51.9	148.7	30,500
120	49.9	144.6	28,500	
125	47.8	140.3	26,700	
130	45.6	135.6	25,000	
135	43.3	130.5	23,500	
140	40.9	124.9	22,000	
145	38.4	118.9	20,700	
150	35.8	112.3	19,500	
155	33.0	105.0	18,300	
160	29.9	96.8	17,200	
165	26.6	87.5	16,200	
170	22.7	76.6	15,300	
175	18.2	63.2	13,500*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
190	32	81.5	194.9	171,000*
	34	80.9	194.6	166,100*
	36	80.3	194.3	159,800
	38	79.7	193.9	147,900
	40	79.1	193.6	137,400
	45	77.5	192.5	116,400
	50	76.0	191.4	100,500
	55	74.4	190.0	88,000
	60	72.9	188.6	78,000
	65	71.3	186.9	69,700
	70	69.7	185.2	62,800
	75	68.1	183.2	57,000
	80	66.4	181.1	52,000
	85	64.8	178.9	47,600
	90	63.1	176.4	43,800
	95	61.4	173.8	40,400
	100	59.7	171.0	37,400
	105	57.9	167.9	34,700
	110	56.1	164.7	32,200
	115	54.3	161.2	30,000
120	52.4	157.5	28,000	
125	50.4	153.5	26,200	
130	48.5	149.2	24,500	
135	46.4	144.6	22,900	
140	44.3	139.7	21,500	
145	42.1	134.4	20,200	
150	39.8	128.6	18,900	
155	37.4	122.3	17,800	
160	34.8	115.5	16,700	
165	32.1	107.9	15,700	
170	29.1	99.4	14,800	
175	25.8	89.8	13,900	
180	22.1	78.6	13,100	
185	17.7	64.8	11,000*	
200	34	81.4	204.7	157,200*
	36	80.8	204.4	153,500*
	38	80.2	204.1	147,400
	40	79.6	203.7	136,900
	45	78.2	202.8	115,900
	50	76.7	201.6	100,000
	55	75.2	200.4	87,500
	60	73.7	199.0	77,400
	65	72.2	197.5	69,200
	70	70.7	195.8	62,300
	75	69.2	194.0	56,400
	80	67.7	192.0	51,400
	85	66.1	189.9	47,000
	90	64.5	187.6	43,200
	95	62.9	185.1	39,800
	100	61.3	182.5	36,800
	105	59.7	179.6	34,100
	110	58.0	176.6	31,600
	115	56.3	173.4	29,400
	120	54.5	169.9	27,400
125	52.8	166.3	25,600	
130	50.9	162.3	23,900	
135	49.1	158.1	22,300	
140	47.2	153.6	20,900	
145	45.2	148.8	19,600	
150	43.1	143.7	18,300	
155	41.0	138.2	17,200	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	
200	160	38.7	132.2	16,100	
	165	36.4	125.7	15,100	
	170	33.9	118.6	14,200	
	175	31.2	110.7	13,300	
	180	28.4	102.0	12,400	
	185	25.2	92.1	11,700	
	190	21.6	80.5	10,900	
	195	17.3	66.3	8,500*	
	210	36	81.2	214.6	146,000*
		38	80.7	214.2	143,300*
40		80.1	213.9	136,600	
45		78.7	213.0	115,500	
50		77.3	211.9	99,600	
55		75.9	210.7	87,100	
60		74.5	209.4	77,100	
65		73.1	208.0	68,800	
70		71.7	206.4	61,900	
75		70.2	204.6	56,100	
80		68.8	202.8	51,000	
85		67.3	200.8	46,700	
90		65.8	198.6	42,800	
95		64.3	196.3	39,400	
100		62.8	193.8	36,400	
105		61.3	191.1	33,700	
110		59.7	188.3	31,300	
115		58.1	185.3	29,100	
120		56.5	182.1	27,100	
125		54.8	178.6	25,200	
130	53.1	175.0	23,500		
135	51.4	171.1	22,000		
140	49.6	167.0	20,600		
145	47.8	162.6	19,200		
150	46.0	157.9	18,000		
155	44.0	152.9	16,800		
160	42.0	147.6	15,800		
165	39.9	141.8	14,800		
170	37.8	135.6	13,800		
175	35.5	128.9	12,900		
180	33.1	121.6	12,100		
185	30.5	113.5	11,300		
190	27.7	104.5	10,600		
195	24.6	94.3	9,900		
200	21.0	82.4	8,800*		
205	16.8	67.8	6,500*		

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

BOOM NO. 22C WITH OPEN THROAT TOP
 146,400 LB. CRANE COUNTERWEIGHT
 60,000 LB. CARBODY COUNTERWEIGHT
 26'6" CRAWLERS EXTENDED
 360 DEGREE RATING

MEETS
 ANSI B30.5
 REQUIREMENTS

4100W SERIES 2

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	
202	38	81.1	224.4	135,900*	
	40	80.6	224.0	133,400*	
	45	79.3	223.2	115,000	
	50	77.9	222.1	99,100	
	55	76.6	221.0	86,600	
	60	75.3	219.8	76,600	
	65	73.9	218.4	68,300	
	70	72.5	216.9	61,400	
	75	71.2	215.2	55,500	
	80	69.8	213.5	50,500	
203	85	68.4	211.6	46,100	
	90	67.0	209.5	42,300	
	95	65.6	207.3	38,900	
	100	64.1	205.0	35,800	
	105	62.7	202.5	33,100	
	110	61.2	199.8	30,700	
	115	59.7	196.9	28,500	
	120	58.2	193.9	26,500	
	125	56.6	190.7	24,600	
	130	55.1	187.3	23,000	
204	135	53.5	183.8	21,400	
	140	51.8	179.9	20,000	
	145	50.1	175.9	18,600	
	150	48.4	171.6	17,400	
	155	46.7	167.0	16,300	
	160	44.8	162.1	15,200	
	165	43.0	156.9	14,200	
	170	41.0	151.4	13,200	
	175	39.0	145.4	12,300	
	180	36.9	139.0	11,500	
205	185	34.6	132.1	10,700	
	190	32.3	124.5	10,000	
	195	29.8	116.2	9,300	
	200	27.0	106.9	8,600	
	205	24.0	96.4	8,000	
	210	20.6	84.2	6,500*	
	215	16.4	69.3	4,400*	
	206	38	81.5	234.5	132,900*
		40	81.0	234.2	125,200*
		45	79.7	233.3	114,500
50		78.5	232.4	98,600	
55		77.2	231.3	86,100	
60		75.9	230.1	76,100	
65		74.6	228.8	67,800	
70		73.3	227.3	60,900	
75		72.0	225.8	55,000	
80		70.7	224.1	50,000	
207	85	69.4	222.3	45,600	
	90	68.0	220.3	41,700	
	95	66.7	218.2	38,400	
	100	65.3	216.0	35,300	
	105	64.0	213.6	32,600	
	110	62.6	211.1	30,200	
	115	61.1	208.4	28,000	
	120	59.7	205.6	26,000	
	125	58.3	202.6	24,100	
	130	56.8	199.4	22,400	
208	135	55.3	196.1	20,900	
	140	53.8	192.5	19,400	
	145	52.2	188.7	18,100	
	150	50.6	184.7	16,900	
	155	49.0	180.5	15,700	
	160	47.3	176.0	14,700	
	165	45.6	171.3	13,600	
	170	43.8	166.2	12,700	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	
230	175	42.0	160.8	11,800	
	180	40.1	155.1	11,000	
	185	38.1	148.9	10,200	
	190	36.0	142.3	9,400	
	195	33.9	135.1	8,700	
	200	31.6	127.4	8,100	
	205	29.1	118.8	7,400	
	210	26.4	109.3	6,800*	
	215	23.5	98.5	6,100*	
	220	20.1	86.0	4,400*	
240	40	81.4	244.3	123,400*	
	45	80.2	243.5	112,600*	
	50	78.9	242.6	98,100	
	55	77.7	241.5	85,600	
	60	76.5	240.4	75,600	
	65	75.3	239.1	67,300	
	70	74.0	237.8	60,400	
	75	72.8	236.3	54,500	
	80	71.5	234.7	49,500	
	85	70.3	232.9	45,100	
250	90	69.0	231.1	41,200	
	95	67.7	229.1	37,800	
	100	66.4	227.0	34,800	
	105	65.1	224.7	32,100	
	110	63.8	222.3	29,700	
	115	62.5	219.8	27,400	
	120	61.1	217.1	25,400	
	125	59.7	214.3	23,600	
	130	58.3	211.3	21,900	
	135	56.9	208.1	20,300	
260	140	55.5	204.8	18,900	
	145	54.0	201.2	17,600	
	150	52.5	197.5	16,300	
	155	51.0	193.6	15,200	
	160	49.5	189.4	14,100	
	165	47.9	185.0	13,100	
	170	46.2	180.3	12,200	
	175	44.6	175.4	11,300	
	180	42.8	170.2	10,400	
	185	41.0	164.6	9,600	
270	190	39.2	158.7	8,900	
	195	37.3	152.3	8,200	
	200	35.2	145.5	7,500*	
	205	33.1	138.2	6,700*	
	210	30.9	130.1	6,000*	
	215	28.5	121.4	5,300*	
	220	25.8	111.6	4,700*	
	225	23.0	100.6	4,000*	
	280	45	80.6	253.6	106,600*
		50	79.4	252.7	97,800
55		78.2	251.7	85,200	
60		77.1	250.7	75,200	
65		75.9	249.4	66,900	
70		74.7	248.1	60,000	
75		73.5	246.7	54,100	
80		72.3	245.2	49,100	
85		71.1	243.5	44,700	
90		69.9	241.7	40,800	
290	95	68.7	239.9	37,400	
	100	67.4	237.8	34,400	
	105	66.2	235.7	31,700	
	110	64.9	233.4	29,300	
	115	63.6	231.0	27,100	
	120	62.4	228.5	25,000	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
250	125	61.1	225.8	23,200
	130	59.7	222.9	21,500
	135	58.4	219.9	20,000
	140	57.0	216.8	18,500
	145	55.7	213.4	17,200
	150	54.3	209.9	16,000
	155	52.8	206.3	14,800
	160	51.4	202.4	13,700
	165	49.9	198.3	12,700
	170	48.4	193.9	11,800
260	175	46.8	189.4	10,900
	180	45.3	184.6	10,100
	185	43.6	179.5	9,300
	190	41.9	174.1	8,500
	195	40.2	168.3	7,800*
	200	38.4	162.2	7,000*
	205	36.5	155.7	6,200*
	210	34.5	148.7	5,500*
	215	32.4	141.1	4,800*
	220	30.2	132.9	4,100*
270	45	80.9	263.8	104,800*
	50	79.8	262.9	95,700*
	55	78.7	262.0	84,700
	60	77.6	260.9	74,700
	65	76.4	259.7	66,400
	70	75.3	258.5	59,500
	75	74.2	257.1	53,600
	80	73.0	255.6	48,500
	85	71.8	254.1	44,100
	90	70.7	252.4	40,300
280	95	69.5	250.6	36,900
	100	68.3	248.6	33,900
	105	67.1	246.6	31,100
	110	65.9	244.4	28,700
	115	64.7	242.1	26,500
	120	63.5	239.7	24,500
	125	62.3	237.1	22,600
	130	61.0	234.4	20,900
	135	59.7	231.6	19,400
	140	58.5	228.6	17,900
290	145	57.2	225.5	16,600
	150	55.8	222.1	15,400
	155	54.5	218.7	14,200
	160	53.1	215.0	13,100
	165	51.7	211.2	12,100
	170	50.3	207.1	11,200
	175	48.9	202.9	10,300
	180	47.4	198.4	9,500
	185	45.9	193.7	8,700
	190	44.3	188.7	7,900*
300	195	42.7	183.4	7,000*
	200	41.1	177.8	6,200*
	205	39.4	171.9	5,400*
	210	37.6	165.6	4,700*
	215	35.8	158.9	4,000*