

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

3900T SERIES 2

BOOM NO. 9A WITH 3' HAMMERHEAD

TOP - DEEP SECTION

74,000 LB CRANE COUNTERWEIGHT

10,500 LB. FRONT BUMPER COUNTERWEIGHT

RATING OVER REAR SECTOR ON EXTENDED OUTRIGGERS

85% TIPPING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 85% 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 22,500 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR 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 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 GANTRY UP AND OUTRIGGERS FULLY EXTENDED AND SET. REFER TO BOOM RIGGING NO. 49419, WIRE ROPE SPECIFICATION CHART NO. 6149 AND OPERATING RANGE DIAGRAM CHART NO. 6423-C. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH MANITOWOC-HENDRICKSON OR MANITOWOC-PIERCE 12 X 6 CARRIER, 226" WHEELBASE, 105" FRONT AXLE TRACK, 100" REAR AXLE TRACK, 14.00-20 TIRES, 112" OUTRIGGERS, 15' RETRACTABLE GANTRY, 10 OR 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS, 74,000 LB. CRANE COUNTERWEIGHT AND 10,500 LB. FRONT BUMPER COUNTERWEIGHT.

DO NOT ROTATE UPPERWORKS OVER SIDE WITH 61,200 LB. OR 74,000 LB. COUNTERWEIGHT ATTACHED UNLESS OUTRIGGERS ARE FULLY EXTENDED AND SET.

BOOM BUTT NO. 65817 REQUIRED FOR 330,000 LB. CAPACITY ON 33' BOOM LENGTH.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED						DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
OVER REAR ON EXTENDED OUTRIGGERS			OVER SIDE ON EXTENDED OUTRIGGERS					JIB LGTH.	JIB NO. 123	JIB NO. 124
BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124	ONE SHEAVE POINT	700 LBS.	30'	2,500 LBS.	1,800 LBS.
(a) 213'	---	---	(a) 213'	---	---			40'	2,100 LBS.	2,050 LBS.
203'	40'	60'	203'	30'	40'			50'	3,700 LBS.	2,300 LBS.
193'	60'	60'	193'	50'	60'			60'	4,400 LBS.	2,500 LBS.
			183'	60'	60'					
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.										
(a) UPPER BOOM POINT CANNOT BE USED ON 213' BOOM.										

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
33	12	81.9	40.0	330,000*
	13	80.1	39.7	284,200*
	14	78.3	39.4	272,300*
	15	76.5	39.0	261,400*
	16	74.6	38.6	251,300*
	17	72.7	38.2	241,900*
	18	70.8	37.8	233,200*
	19	68.9	37.3	225,000*
	20	66.9	36.7	217,500*
	22	62.9	35.5	193,000*
	24	58.6	34.0	173,000*
	26	54.1	32.4	156,700*
38	28	49.3	30.4	142,200*
	30	43.9	28.0	126,000*
	32	37.8	25.1	111,000*
	34	30.3	21.2	96,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
38	12	83.0	45.1	310,000*
	13	81.4	44.8	283,500*
	14	79.9	44.6	271,600*
	15	78.3	44.3	260,700*
	16	76.7	43.9	250,500*
	17	75.1	43.6	241,200*
	18	73.5	43.2	232,500*
	19	71.9	42.8	224,300*
	20	70.2	42.3	216,700*
	22	66.9	41.3	192,600*
	24	63.4	40.1	172,700*
	26	59.8	38.8	156,400*
43	28	56.0	37.2	142,700*
	30	51.9	35.4	135,800*
	32	47.6	33.4	123,300*
	34	42.9	31.0	111,000*
	36	37.7	28.1	99,400*
	38	31.4	24.4	88,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
43	13	82.4	49.9	283,200*
	14	81.1	49.7	271,300*
	15	79.7	49.4	260,400*
	16	78.3	49.2	250,300*
	17	76.9	48.9	240,900*
	18	75.5	48.5	232,200*
	19	74.1	48.1	224,100*
	20	72.7	47.7	216,500*
	22	69.8	46.9	192,900*
	24	66.8	45.9	172,900*
	26	63.8	44.7	156,500*
	28	60.6	43.4	142,900*
48	30	57.3	42.0	135,800*
	32	53.9	40.3	125,600*
	34	50.3	38.5	116,700*
	36	46.4	36.4	108,700*
	38	42.2	33.9	99,100*
	40	37.6	31.0	89,900*

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BOOM NO. 9A WITH 3' HAMMERHEAD

TOP - DEEP SECTION

74,000 LB CRANE COUNTERWEIGHT

10,500 LB. FRONT BUMPER COUNTERWEIGHT

RATING OVER REAR SECTOR ON EXTENDED OUTRIGGERS

85% TIPPING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
4 8	14	82.0	54.8	270,600*
	15	80.8	54.6	259,600*
	16	79.6	54.3	249,600*
	17	78.3	54.1	240,200*
	18	77.1	53.8	231,500*
	19	75.8	53.4	223,400*
	20	74.6	53.1	215,800*
	22	72.0	52.3	192,500*
	24	69.4	51.4	172,500*
	26	66.8	50.4	156,200*
	28	64.1	49.3	142,500*
	30	61.3	48.1	135,300*
	32	58.4	46.7	125,100*
	34	55.4	45.2	116,200*
	36	52.2	43.4	108,500*
	38	48.9	41.5	101,600*
5 3	40	45.4	39.4	95,600*
	45	35.2	32.4	77,800*
	14	82.8	59.9	270,600*
	15	81.7	59.7	259,700*
	16	80.6	59.5	249,600*
	17	79.5	59.2	240,300*
	18	78.4	59.0	231,600*
	19	77.2	58.7	223,500*
	20	76.1	58.4	215,900*
	22	73.8	57.7	192,600*
	24	71.5	56.9	172,700*
	26	69.1	56.0	156,300*
	28	66.7	55.0	142,700*
	30	64.3	53.9	135,500*
	32	61.8	52.7	125,300*
	34	59.2	51.4	116,400*
	36	56.5	49.9	108,600*
6 3	38	53.7	48.3	101,800*
	40	50.8	46.5	95,700*
	45	42.9	41.1	83,100*
	50	33.3	33.7	68,700*
	15	83.0	69.9	258,000*
	16	82.1	69.7	248,600*
	17	81.2	69.5	239,200*
	18	80.2	69.3	230,600*
	19	79.3	69.0	222,500*
	20	78.4	68.8	214,900*
	22	76.5	68.2	192,400*
	24	74.6	67.5	172,400*
	26	72.6	66.8	156,000*
	28	70.7	66.0	142,300*
	30	68.7	65.1	135,200*
	32	66.7	64.2	124,900*
	34	64.6	63.1	116,000*
	36	62.5	62.0	108,200*
	38	60.4	60.7	101,300*
	40	58.2	59.4	95,200*
	45	52.4	55.5	82,600*
	50	46.1	50.6	72,700*
	55	38.9	44.5	64,800*
	60	30.1	36.2	54,400*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
7 3	17	82.4	79.7	203,300*
	18	81.6	79.5	202,400*
	19	80.8	79.3	201,100*
	20	80.0	79.1	199,600*
	22	78.4	78.6	193,700*
	24	76.8	78.0	173,500*
	26	75.1	77.4	157,000*
	28	73.5	76.7	143,200*
	30	71.8	76.0	136,200*
	32	70.1	75.2	125,900*
	34	68.4	74.3	116,900*
	36	66.7	73.3	109,000*
	38	64.9	72.3	102,100*
	40	63.1	71.2	95,900*
	45	58.5	68.1	83,200*
	50	53.6	64.3	73,200*
8 3	55	48.3	59.8	65,200*
	60	42.5	54.3	58,700*
	65	35.8	47.5	53,100*
	70	27.7	38.4	45,200*
	18	82.6	89.6	196,600*
	19	81.9	89.5	195,600*
	20	81.2	89.3	194,800*
	22	79.8	88.8	192,900*
	24	78.4	88.4	172,900*
	26	77.0	87.8	156,400*
	28	75.5	87.2	142,700*
	30	74.1	86.6	135,800*
	32	72.6	85.9	125,400*
	34	71.1	85.1	116,400*
	36	69.7	84.3	108,500*
	38	68.1	83.5	101,600*
	40	66.6	82.5	95,400*
9 3	45	62.7	79.9	82,700*
	50	58.7	76.8	72,700*
	55	54.4	73.1	64,700*
	60	49.9	68.8	58,100*
	65	45.0	63.8	52,700*
	70	39.6	57.8	48,000*
	75	33.4	50.3	43,600*
	80	25.8	40.5	37,500*
	19	82.8	99.6	189,900*
	20	82.2	99.4	189,300*
	22	80.9	99.1	188,000*
	24	79.7	98.6	170,500*
	26	78.4	98.2	156,000*
	28	77.1	97.6	142,300*
	30	75.8	97.1	134,400*
	32	74.6	96.5	125,100*
	34	73.3	95.8	116,100*
	36	72.0	95.1	108,200*
	38	70.6	94.3	101,200*
	40	69.3	93.5	95,100*
	45	65.9	91.2	82,300*
	50	62.4	88.5	72,300*
	55	58.8	85.4	64,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
9 3	60	55.0	81.9	57,700*
	65	51.1	77.8	52,200*
	70	46.8	73.1	47,600*
	75	42.2	67.6	43,600*
	80	37.2	61.0	40,100*
	85	31.3	53.0	36,500*
	20	82.9	109.6	180,600*
	22	81.8	109.2	180,600*
	24	80.7	108.8	167,000*
	26	79.5	108.4	152,800*
	28	78.4	108.0	140,800*
	30	77.3	107.4	131,500*
	32	76.1	106.9	122,600*
	34	74.9	106.3	114,800*
	36	73.8	105.7	108,000*
	38	72.6	105.0	101,000*
10 3	40	71.4	104.2	94,800*
	45	68.4	102.2	81,900*
	50	65.3	99.9	71,900*
	55	62.2	97.2	63,900*
	60	58.9	94.1	57,300*
	65	55.5	90.6	51,700*
	70	52.0	86.7	47,100*
	75	48.3	82.2	43,100*
	80	44.3	77.0	39,600*
	85	39.9	71.1	36,500*
	90	35.2	64.0	33,900*
	95	29.6	55.5	30,800*
	22	82.5	119.4	160,100*
	24	81.5	119.0	153,500*
	26	80.5	118.6	147,200*
	28	79.5	118.2	138,200*
	30	78.4	117.8	128,200*
11 3	32	77.4	117.3	120,200*
	34	76.3	116.7	112,700*
	36	75.3	116.1	106,000*
	38	74.2	115.5	100,000*
	40	73.1	114.9	94,700*
	45	70.4	113.0	82,000*
	50	67.7	110.9	72,000*
	55	64.9	108.5	63,900*
	60	62.0	105.8	57,300*
	65	59.0	102.8	51,800*
	70	56.0	99.3	47,100*
	75	52.8	95.5	43,100*
	80	49.4	91.2	39,600*
	85	45.9	86.3	36,600*
	90	42.1	80.8	33,900*
	95	38.0	74.4	31,500*
	100	33.4	66.9	29,300*
	105	28.2	57.9	26,600*

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
1 2 3	24	82.2	129.2	145,600*
	26	81.3	128.8	139,300*
	28	80.3	128.4	133,600*
	30	79.4	128.0	125,900*
	32	78.4	127.6	118,100*
	34	77.5	127.1	110,600*
	36	76.5	126.5	103,900*
	38	75.5	126.0	98,100*
	40	74.6	125.4	92,800*
	45	72.1	123.7	81,700*
	50	69.6	121.8	71,600*
	55	67.1	119.6	63,500*
	60	64.5	117.2	56,900*
	65	61.8	114.5	51,400*
	70	59.1	111.4	46,700*
1 3 3	75	56.3	108.1	42,600*
	80	53.4	104.3	39,100*
	85	50.3	100.1	36,100*
	90	47.2	95.5	33,400*
	95	43.8	90.2	31,000*
	100	40.2	84.3	28,800*
	105	36.3	77.6	26,900*
	110	31.9	69.7	25,100*
	115	26.9	60.1	22,700*
	24	82.8	139.3	138,900*
	26	81.9	139.0	132,800*
	28	81.1	138.6	127,100*
	30	80.2	138.2	121,800*
	32	79.3	137.8	115,100*
	34	78.4	137.4	108,400*
	36	77.5	136.9	101,800*
1 3 3	38	76.6	136.3	96,000*
	40	75.7	135.8	90,900*
	45	73.5	134.3	80,100*
	50	71.2	132.5	71,200*
	55	68.9	130.5	63,100*
	60	66.5	128.3	56,500*
	65	64.1	125.9	50,900*
	70	61.7	123.1	46,200*
	75	59.2	120.1	42,200*
	80	56.6	116.8	38,700*
	85	53.9	113.1	35,600*
	90	51.1	109.0	32,900*
	95	48.2	104.5	30,500*
	100	45.2	99.5	28,400*
	105	42.0	94.0	26,400*
1 4 3	110	38.5	87.7	24,700*
	115	34.8	80.6	23,100*
	120	30.6	72.3	21,600*
	125	25.8	62.3	19,400*
	26	82.5	149.1	124,900*
1 4 3	28	81.7	148.8	119,500*
	30	80.9	148.4	114,400*
	32	80.1	148.0	109,700*
	34	79.2	147.6	105,300*
	36	78.4	147.1	100,300*
	38	77.6	146.7	94,500*
	40	76.8	146.2	89,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
1 4 3	45	74.7	144.7	78,600*
	50	72.6	143.1	70,100*
	55	70.5	141.3	62,800*
	60	68.3	139.3	56,100*
	65	66.1	137.0	50,500*
	70	63.9	134.5	45,800*
	75	61.6	131.8	41,700*
	80	59.2	128.8	38,200*
	85	56.8	125.5	35,100*
	90	54.4	121.8	32,400*
	95	51.8	117.9	30,000*
	100	49.1	113.5	27,800*
	105	46.4	108.7	25,900*
	110	43.5	103.5	24,100*
	115	40.4	97.6	22,500*
1 5 3	120	37.1	91.0	21,100*
	125	33.5	83.5	19,700*
	130	29.4	74.8	18,500*
	26	83.0	159.2	112,300*
	28	82.2	158.9	109,100*
	30	81.5	158.6	105,900*
	32	80.7	158.2	102,500*
	34	80.0	157.8	99,100*
	36	79.2	157.4	95,800*
	38	78.4	156.9	92,400*
	40	77.7	156.5	88,000*
	45	75.7	155.2	77,300*
	50	73.8	153.7	68,900*
	55	71.8	152.0	62,100*
	60	69.8	150.1	56,000*
1 6 3	65	67.8	148.0	50,400*
	70	65.7	145.7	45,700*
	75	63.6	143.2	41,600*
	80	61.5	140.4	38,100*
	85	59.3	137.4	35,000*
	90	57.0	134.2	32,300*
	95	54.7	130.6	29,900*
	100	52.4	126.7	27,700*
	105	49.9	122.5	25,800*
	110	47.4	117.8	24,000*
	115	44.7	112.8	22,400*
	120	41.9	107.2	21,000*
	125	38.9	101.0	19,600*
	130	35.7	94.1	18,400*
	135	32.3	86.3	17,300*
	140	28.4	77.3	16,100*
1 6 3	28	82.7	169.0	102,600*
	30	82.0	168.7	99,500*
	32	81.3	168.4	96,400*
	34	80.6	168.0	93,300*
	36	79.9	167.6	90,100*
	38	79.1	167.2	87,000*
	40	78.4	166.7	84,000*
	45	76.6	165.5	75,800*
	50	74.8	164.1	67,500*
	55	73.0	162.5	60,700*
	60	71.1	160.8	55,100*
	65	69.2	158.9	49,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
1 6 3	70	67.3	156.7	45,200*
	75	65.4	154.4	41,100*
	80	63.4	151.9	37,600*
	85	61.4	149.1	34,500*
	90	59.3	146.1	31,800*
	95	57.2	142.8	29,400*
	100	55.1	139.3	27,200*
	105	52.9	135.5	25,300*
	110	50.6	131.4	23,500*
	115	48.2	126.9	21,900*
	120	45.8	122.0	20,400*
	125	43.2	116.7	19,100*
	130	40.5	110.8	17,900*
	135	37.6	104.4	16,700*
	140	34.6	97.2	15,700*
1 7 3	145	31.2	89.0	14,700*
	150	27.5	79.6	13,600*
	30	82.5	178.8	92,300*
	32	81.8	178.5	89,500*
	34	81.1	178.2	86,600*
	36	80.5	177.8	83,800*
	38	79.8	177.4	80,900*
	40	79.1	177.0	78,200*
	45	77.4	175.8	71,700*
	50	75.7	174.5	65,800*
	55	74.0	173.1	59,700*
	60	72.2	171.4	54,200*
	65	70.5	169.6	49,500*
	70	68.7	167.6	44,900*
	75	66.9	165.4	40,800*
1 7 3	80	65.1	163.1	37,300*
	85	63.2	160.5	34,200*
	90	61.3	157.8	31,400*
	95	59.4	154.8	29,000*
	100	57.4	151.5	26,800*
	105	55.4	148.0	24,900*
	110	53.3	144.3	23,100*
	115	51.2	140.2	21,500*
	120	49.0	135.9	20,000*
	125	46.7	131.1	18,700*
	130	44.3	126.0	17,400*
	135	41.8	120.4	16,300*
	140	39.2	114.3	15,200*
	145	36.5	107.6	14,200*
	150	33.5	100.1	13,300*
	155	30.2	91.6	12,500*
	160	26.6	81.9	11,400*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

3900T SERIES 2

BOOM NO. 9A WITH 3' HAMMERHEAD

TOP - DEEP SECTION

74,000 LB CRANE COUNTERWEIGHT

10,500 LB. FRONT BUMPER COUNTERWEIGHT

RATING OVER REAR SECTOR ON EXTENDED OUTRIGGERS

85% TIPPING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
183	30	82.9	188.9	86,600*
	32	82.3	188.6	83,900*
	34	81.6	188.3	81,200*
	36	81.0	188.0	78,600*
	38	80.3	187.6	76,000*
	40	79.7	187.2	73,400*
	45	78.1	186.1	67,300*
	50	76.5	184.9	61,800*
	55	74.9	183.5	56,800*
	60	73.2	182.0	52,400*
	65	71.6	180.3	48,300*
	70	69.9	178.4	44,300*
	75	68.2	176.4	40,300*
	80	66.5	174.2	36,700*
	85	64.8	171.8	33,600*
	90	63.0	169.2	30,900*
	95	61.2	166.4	28,500*
	100	59.4	163.4	26,300*
	105	57.5	160.2	24,300*
	110	55.6	156.8	22,600*
193	115	53.7	153.1	20,900*
	120	51.7	149.1	19,500*
	125	49.6	144.8	18,100*
	130	47.5	140.2	16,900*
	135	45.3	135.3	15,700*
	140	43.0	129.9	14,700*
	145	40.6	124.1	13,700*
	150	38.1	117.7	12,800*
	155	35.4	110.7	11,900*
	160	32.5	102.9	11,100*
	165	29.3	94.2	10,400*
	170	25.8	84.1	9,300*
203	32	82.7	198.8	77,400*
	34	82.1	198.4	75,200*
	36	81.5	198.1	73,000*
	38	80.9	197.8	70,800*
	40	80.3	197.4	68,500*
	45	78.7	196.4	63,200*
	50	77.2	195.2	58,200*
	55	75.7	193.9	53,600*
	60	74.1	192.4	49,500*
	65	72.6	190.8	45,800*
	70	71.0	189.1	42,400*
	75	69.4	187.2	39,400*
	80	67.8	185.1	36,500*
	85	66.2	182.9	33,500*
	90	64.5	180.4	30,700*
	95	62.9	177.9	28,300*
	100	61.2	175.1	26,100*
	105	59.4	172.1	24,100*
	110	57.7	168.9	22,400*
	115	55.9	165.5	20,800*
213	120	54.0	161.8	19,300*
	125	52.2	157.9	17,900*
	130	50.2	153.7	16,700*
	135	48.2	149.2	15,500*
	140	46.2	144.4	14,500*
	145	44.0	139.3	13,500*
	150	41.8	133.7	12,600*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
193	155	39.5	127.6	11,700*
	160	37.0	121.0	10,900*
	165	34.4	113.7	10,200*
	170	31.6	105.7	9,500*
	175	28.5	96.7	8,800*
203	180	25.1	86.3	7,800*
	32	83.0	208.9	70,900*
	34	82.5	208.6	68,900*
	36	81.9	208.2	67,000*
	38	81.3	207.9	65,000*
213	40	80.7	207.6	63,000*
	45	79.3	206.6	58,200*
	50	77.9	205.5	53,600*
	55	76.4	204.2	49,500*
	60	74.9	202.9	45,600*
	65	73.5	201.3	42,200*
	70	72.0	199.7	39,100*
	75	70.5	197.9	36,300*
	80	69.0	195.9	33,700*
	85	67.4	193.8	31,300*
	90	65.9	191.6	29,100*
	95	64.3	189.1	27,100*
	100	62.7	186.5	25,300*
	105	61.1	183.7	23,600*
	110	59.5	180.8	21,900*
	115	57.8	177.6	20,300*
	120	56.1	174.2	18,800*
	125	54.3	170.6	17,500*
	130	52.6	166.7	16,200*
	135	50.7	162.6	15,100*
223	140	48.9	158.2	14,000*
	145	46.9	153.5	13,000*
	150	44.9	148.5	12,100*
	155	42.9	143.1	11,200*
	160	40.7	137.3	10,400*
	165	38.4	131.0	9,700*
	170	36.0	124.2	9,000*
	175	33.5	116.7	8,300*
	180	30.8	108.4	7,700*
	185	27.8	99.1	7,100*
233	34	82.8	218.7	64,400*
	36	82.3	218.4	62,600*
	38	81.7	218.1	60,700*
	40	81.2	217.7	58,900*
	45	79.8	216.8	54,400*
	50	78.4	215.7	50,100*
	55	77.1	214.6	46,200*
	60	75.7	213.3	42,600*
	65	74.3	211.8	39,400*
	70	72.9	210.2	36,400*
	75	71.4	208.5	33,700*
	80	70.0	206.7	31,200*
	85	68.6	204.7	28,900*
	90	67.1	202.5	26,900*
	95	65.6	200.3	25,000*
	100	64.1	197.8	23,200*
	105	62.6	195.2	21,600*
	110	61.1	192.4	20,000*
	115	59.5	189.4	18,600*
	120	57.9	186.2	17,300*
	125	56.3	182.9	16,000*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
243	130	54.6	179.3	14,800*
	135	52.9	175.5	13,600*
	140	51.2	171.5	12,500*
	145	49.4	167.2	11,500*
	150	47.6	162.6	10,500*
253	155	45.7	157.7	9,500*
	160	43.8	152.5	8,600*
	165	41.8	146.9	7,700*
	170	39.7	140.9	6,800*
	175	37.5	134.4	5,900*
263	180	35.1	127.3	5,100*
	185	32.6	119.6	4,200*
	190	30.0	111.0	3,400*