

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250

**BOOM NO. 44 WITH HEAVY LIFT TOP
82,400 LB. COUNTERWEIGHT
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 IS 30,000 LBS. OR 60,000 LBS. WITH TWO PART WHIP LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM 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. REFER TO BOOM RIGGING NO. 172610, WIRE ROPE SPECIFICATION CHART NO. 7581-A AND COUNTERWEIGHT ARRANGEMENT CHART NO. 7692-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.

MACHINE MAY BE OPERATED WITHIN WIND LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION WHEN WIND EXCEEDS THOSE SHOWN IN TABLE. LOWER BOOM TO GROUND WHEN WIND IS ABOVE 50 MPH.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION TO 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 30'9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS, AND 82,400 LB. COUNTERWEIGHT.

WIND LIMITS DURING OPERATION	
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET
30	70 - 200
25	210 - 230

MAXIMUM BOOM LENGTHS LIFTED UNASSISTED		
OVER FRONT OF BLOCKED CRAWLERS BOOM LENGTH	OVER REAR OF BLOCKED CRAWLERS BOOM LENGTH	OVER SIDE OF CRAWLERS BOOM LENGTH
230'	220'	200'
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.		

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	18	82.9	77.1	551,200*
	19	82.1	76.9	526,500*
	20	81.3	76.8	481,100
	21	80.4	76.5	429,700
	22	79.6	76.3	388,000
	23	78.8	76.1	353,400
	24	77.9	75.8	324,300
	25	77.1	75.6	299,500
	26	76.2	75.3	278,000
	27	75.4	75.0	259,300
	28	74.5	74.7	242,900
	29	73.7	74.4	228,300
	30	72.8	74.0	215,300
	32	71.0	73.3	193,000
	34	69.3	72.4	174,700
	36	67.5	71.6	159,300
	38	65.7	70.6	146,200
	40	63.8	69.5	135,000
	42	61.9	68.4	125,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	44	60.0	67.2	116,600
	46	58.1	65.9	109,100
	48	56.1	64.5	102,300
	50	54.0	62.9	96,200
	55	48.6	58.6	83,500
	60	42.6	53.2	73,400
80	65	35.8	46.6	65,100
	70	27.4	37.6	58,200
	20	82.4	86.9	481,400
	21	81.7	86.7	429,900
	22	80.9	86.5	388,100
	23	80.2	86.3	353,500
	24	79.5	86.1	324,400
	25	78.7	85.9	299,500
	26	78.0	85.6	278,000
	27	77.3	85.4	259,300
	28	76.5	85.1	242,800
	29	75.8	84.8	228,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
80	30	75.0	84.5	215,100
	32	73.5	83.9	192,800
	34	72.0	83.2	174,400
	36	70.5	82.4	159,000
	38	68.9	81.6	146,000
	40	67.3	80.7	134,700
	42	65.8	79.8	124,900
	44	64.2	78.7	116,300
	46	62.5	77.6	108,700
	48	60.9	76.5	102,000
	50	59.2	75.2	95,900
	55	54.8	71.7	83,100
	60	50.2	67.6	73,000
	65	45.1	62.7	64,800
	70	39.6	56.8	57,900
	75	33.3	49.4	52,100
	80	25.4	39.7	47,200

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
90	21	82.6	96.9	430,200
	22	81.9	96.7	388,300
	23	81.3	96.5	353,700
	24	80.6	96.3	324,500
	25	80.0	96.1	299,600
	26	79.3	95.9	278,100
	27	78.7	95.7	259,300
	28	78.0	95.4	242,800
	29	77.4	95.2	228,200
	30	76.7	94.9	215,100
	32	75.4	94.4	192,800
	34	74.1	93.7	174,400
	36	72.7	93.1	159,000
	38	71.4	92.4	145,900
	40	70.0	91.6	134,600
	42	68.6	90.8	124,800
100	44	67.2	89.9	116,200
	46	65.8	88.9	108,600
	48	64.4	87.9	101,800
	50	63.0	86.8	95,800
	55	59.3	83.9	83,000
	60	55.4	80.4	72,900
	65	51.3	76.5	64,600
	70	47.0	71.8	57,800
	75	42.3	66.5	52,000
	80	37.1	60.0	47,000
	85	31.2	52.1	42,700
	22	82.8	106.8	388,400
	23	82.2	106.7	353,600
	24	81.6	106.5	324,400
	25	81.0	106.3	299,400
	26	80.4	106.1	277,900
	27	79.8	105.9	259,100
	28	79.3	105.7	242,600
	29	78.7	105.5	227,900
	30	78.1	105.2	214,800
	32	76.9	104.7	192,400
	34	75.7	104.2	174,000
	36	74.5	103.6	158,600
	38	73.3	103.0	145,500
	40	72.1	102.3	134,200
	42	70.9	101.5	124,400
	44	69.7	100.8	115,800
	46	68.4	99.9	108,100
	48	67.2	99.0	101,400
	50	65.9	98.1	95,300
	55	62.7	95.5	82,500
	60	59.3	92.5	72,300
	65	55.9	89.2	64,100
	70	52.3	85.3	57,200
	75	48.5	80.9	51,400
	80	44.4	75.9	46,500
	85	40.0	70.0	42,200
	90	35.1	63.1	38,500
	95	29.5	54.7	35,200
110	23	82.9	116.8	353,600
	24	82.4	116.6	324,300
	25	81.8	116.5	299,400
	26	81.3	116.3	277,800
	27	80.8	116.1	259,000
	28	80.3	115.9	242,400
	29	79.7	115.7	227,800
	30	79.2	115.5	214,700
	32	78.1	115.0	192,300
	34	77.0	114.6	173,800
	36	76.0	114.0	158,400
	38	74.9	113.4	145,200
	40	73.8	112.8	133,900
	42	72.7	112.2	124,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
110	44	71.6	111.5	115,500
	46	70.5	110.7	107,900
	48	69.4	109.9	101,100
	50	68.2	109.1	95,000
	55	65.4	106.8	82,200
	60	62.4	104.2	72,000
	65	59.4	101.2	63,800
	70	56.3	97.9	56,900
	75	53.0	94.1	51,100
	80	49.6	89.9	46,200
	85	46.0	85.1	41,900
	90	42.2	79.7	38,100
	95	38.0	73.4	34,800
	100	33.3	66.0	31,900
	105	28.0	57.1	29,300
	24	83.0	126.8	324,200
	25	82.5	126.6	299,200
	26	82.0	126.4	277,600
	27	81.6	126.3	258,700
	28	81.1	126.1	242,100
	29	80.6	125.9	227,400
	30	80.1	125.7	214,300
	32	79.1	125.3	191,900
	34	78.1	124.8	173,400
	36	77.2	124.4	157,900
	38	76.2	123.8	144,800
	40	75.2	123.3	133,500
	42	74.2	122.7	123,600
	44	73.2	122.0	115,000
	46	72.2	121.4	107,300
	48	71.2	120.6	100,500
	50	70.1	119.9	94,400
	55	67.6	117.8	81,600
	60	64.9	115.5	71,400
	65	62.2	112.8	63,200
	70	59.5	109.9	56,300
	75	56.6	106.6	50,500
	80	53.6	102.9	45,500
	85	50.6	98.8	41,300
	90	47.3	94.2	37,500
	95	43.9	89.1	34,200
	100	40.2	83.3	31,300
	105	36.2	76.6	28,700
	110	31.8	68.8	26,300
	115	26.7	59.3	24,200
120	26	82.7	136.6	277,700
	27	82.2	136.4	258,800
	28	81.8	136.2	242,200
	29	81.3	136.1	227,500
	30	80.9	135.9	214,400
	32	80.0	135.5	191,900
	34	79.1	135.1	173,400
	36	78.2	134.6	157,900
	38	77.3	134.2	144,800
	40	76.4	133.6	133,400
	42	75.4	133.1	123,600
	44	74.5	132.5	115,000
	46	73.6	131.9	107,300
	48	72.7	131.2	100,500
	50	71.7	130.5	94,400
	55	69.4	128.7	81,600
	60	67.0	126.5	71,400
	65	64.5	124.1	63,100
	70	62.1	121.5	56,200
	75	59.5	118.5	50,400
	80	56.9	115.3	45,500
	85	54.2	111.7	41,200
	90	51.3	107.7	37,400
	95	48.4	103.3	34,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
130	100	45.3	98.4	31,200
	105	42.0	92.9	28,600
	110	38.5	86.7	26,300
	115	34.7	79.7	24,100
	120	30.5	71.5	22,200
	125	25.6	61.5	20,400
	27	82.8	146.5	258,500
	28	82.4	146.4	241,900
	29	81.9	146.2	227,200
	30	81.5	146.0	214,000
	32	80.7	145.7	191,500
	34	79.9	145.3	173,000
	36	79.0	144.9	157,500
	38	78.2	144.4	144,300
	40	77.4	144.0	132,900
	42	76.5	143.5	123,100
	44	75.7	142.9	114,400
	46	74.8	142.3	106,800
	48	74.0	141.7	99,900
	50	73.1	141.1	93,800
	55	70.9	139.4	81,000
	60	68.7	137.4	70,800
	65	66.5	135.2	62,500
	70	64.2	132.8	55,600
	75	61.9	130.1	49,800
	80	59.5	127.2	44,800
	85	57.1	124.0	40,500
	90	54.6	120.4	36,800
	95	52.0	116.5	33,500
	100	49.3	112.2	30,600
	105	46.5	107.5	27,900
	110	43.5	102.3	25,600
	115	40.4	96.5	23,500
	120	37.0	90.0	21,500
	125	33.4	82.6	19,800
	130	29.3	74.0	18,100
140	28	82.9	156.5	241,600
	29	82.5	156.3	226,900
	30	82.1	156.2	213,700
	32	81.3	155.8	191,200
	34	80.6	155.5	172,600
	36	79.8	155.1	157,100
	38	79.0	154.7	143,900
	40	78.2	154.2	132,500
	42	77.4	153.8	122,700
	44	76.6	153.3	114,000
	46	75.8	152.7	106,300
	48	75.1	152.2	99,500
	50	74.3	151.6	93,400
	55	72.3	150.0	80,500
	60	70.2	148.2	70,300
	65	68.2	146.2	62,000
	70	66.1	143.9	55,100
	75	63.9	141.5	49,300
	80	61.8	138.8	44,300
	85	59.6	135.9	40,000
	90	57.3	132.6	36,300
	95	55.0	129.1	33,000
	100	52.6	125.3	30,100
	105	50.1	121.2	27,400
	110	47.5	116.6	25,100
	115	44.8	111.6	23,000
	120	42.0	106.1	21,000
	125	38.9	100.0	19,300
	130	35.7	93.2	17,600
	135	32.2	85.4	16,100
	140	28.3	76.5	14,800

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
160	29	83.0	166.4	226,500
	30	82.6	166.3	213,300
	32	81.9	166.0	190,700
	34	81.1	165.7	172,200
	36	80.4	165.3	156,600
	38	79.7	164.9	143,400
	40	79.0	164.5	132,000
	42	78.2	164.0	122,100
	44	77.5	163.6	113,400
	46	76.8	163.1	105,800
	48	76.0	162.6	98,900
	50	75.3	162.0	92,800
	55	73.4	160.5	79,900
	60	71.5	158.8	69,700
	65	69.6	157.0	61,400
	70	67.7	154.9	54,500
	75	65.7	152.6	48,600
	80	63.7	150.2	43,700
	85	61.7	147.5	39,400
	90	59.6	144.5	35,600
170	95	57.5	141.3	32,300
	100	55.3	137.9	29,400
	105	53.1	134.1	26,800
	110	50.7	130.1	24,400
	115	48.4	125.6	22,300
	120	45.9	120.8	20,300
	125	43.3	115.6	18,600
	130	40.5	109.8	16,900
	135	37.6	103.4	15,500
	140	34.5	96.2	14,100
	145	31.1	88.2	12,800
	150	27.3	78.8	11,600
	30	83.0	176.4	213,200
	32	82.4	176.1	190,700
	34	81.7	175.8	172,100
	36	81.0	175.5	156,500
	38	80.3	175.1	143,300
	40	79.6	174.7	131,900
	42	78.9	174.3	122,000
	44	78.2	173.8	113,300
	46	77.5	173.4	105,700
	48	76.9	172.9	98,800
180	50	76.2	172.4	92,700
	55	74.4	171.0	79,800
	60	72.6	169.4	69,600
	65	70.9	167.6	61,300
	70	69.1	165.7	54,400
	75	67.2	163.6	48,500
	80	65.4	161.3	43,600
	85	63.5	158.8	39,300
	90	61.6	156.1	35,500
	95	59.6	153.2	32,200
	100	57.6	150.0	29,300
	105	55.6	146.6	26,600
	110	53.5	142.9	24,300
	115	51.3	138.9	22,200
	120	49.1	134.6	20,200
	125	46.8	129.9	18,500
	130	44.4	124.9	16,800
	135	41.9	119.3	15,300
	140	39.2	113.3	14,000
	145	36.4	106.6	12,700
190	150	33.4	99.2	11,500
	155	30.1	90.8	10,400
	160	26.5	81.1	9,400
	34	82.6	196.0	171,200
	36	81.9	195.7	155,600
	38	81.3	195.4	142,400
	40	80.7	195.1	131,000
	42	80.1	194.7	121,100
	44	79.5	194.3	112,300
	46	78.9	193.9	104,600
	48	78.3	193.4	97,800
	50	77.6	193.0	91,600
	55	76.1	191.7	78,700
	60	74.5	190.3	68,500
	65	72.9	188.8	60,100
	70	71.4	187.1	53,200
	75	69.7	185.3	47,400
	80	68.1	183.2	42,400
	85	66.5	181.1	38,100
	90	64.8	178.7	34,300
	95	63.1	176.2	31,000
	100	61.4	173.4	28,000
	105	59.7	170.5	25,400
	110	57.9	167.4	23,100
	115	56.1	164.0	20,900
	120	54.2	160.4	19,000
	125	52.3	156.6	17,200
	130	50.3	152.4	15,600
	135	48.3	148.0	14,100
	140	46.2	143.2	12,700
	145	44.1	138.1	11,400
	150	41.8	132.6	10,300
	155	39.5	126.6	9,200
	160	37.0	120.0	8,100
	165	34.4	112.8	7,200
	170	31.5	104.8	6,300
	175	28.4	95.8	5,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
180	32	82.8	186.2	190,300
	34	82.1	185.9	171,700
	36	81.5	185.6	156,100
	38	80.9	185.3	142,800
	40	80.2	184.9	131,400
	42	79.6	184.5	121,500
	44	78.9	184.1	112,800
	46	78.3	183.6	105,100
	48	77.6	183.2	98,300
	50	76.9	182.7	92,100
	55	75.3	181.4	79,200
	60	73.6	179.9	69,000
	65	72.0	178.3	60,600
	70	70.3	176.5	53,700
	75	68.6	174.5	47,900
	80	66.8	172.3	42,900
	85	65.1	170.0	38,600
	90	63.3	167.5	34,800
	95	61.5	164.8	31,500
	100	59.6	161.8	28,600
190	105	57.8	158.7	26,000
	110	55.8	155.3	23,600
	115	53.9	151.7	21,500
	120	51.8	147.7	19,500
	125	49.8	143.5	17,800
	130	47.6	139.0	16,200
	135	45.4	134.1	14,700
	140	43.1	128.8	13,300
	145	40.6	123.0	12,000
	150	38.1	116.7	10,800
	155	35.4	109.8	9,700
	160	32.4	102.1	8,700
	165	29.2	93.4	7,700
	170	25.7	83.3	6,800
	34	82.6	196.0	171,200
	36	81.9	195.7	155,600
	38	81.3	195.4	142,400
	40	80.7	195.1	131,000
	42	80.1	194.7	121,100
	44	79.5	194.3	112,300
	46	78.9	193.9	104,600
	48	78.3	193.4	97,800
	50	77.6	193.0	91,600
	55	76.1	191.7	78,700
	60	74.5	190.3	68,500
	65	72.9	188.8	60,100
	70	71.4	187.1	53,200
	75	69.7	185.3	47,400
	80	68.1	183.2	42,400
	85	66.5	181.1	38,100
	90	64.8	178.7	34,300
	95	63.1	176.2	31,000
	100	61.4	173.4	28,000
	105	59.7	170.5	25,400
	110	57.9	167.4	23,100
	115	56.1	164.0	20,900
	120	54.2	160.4	19,000
	125	52.3	156.6	17,200
	130	50.3	152.4	15,600
	135	48.3	148.0	14,100
	140	46.2	143.2	12,700
	145	44.1	138.1	11,400
	150	41.8	132.6	10,300
	155	39.5	126.6	9,200
	160	37.0	120.0	8,100
	165	34.4	112.8	7,200
	170	31.5	104.8	6,300
	175	28.4	95.8	5,400

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	
200	34	82.9	206.1	170,800	
	36	82.4	205.8	155,200	
	38	81.8	205.5	141,900	
	40	81.2	205.2	130,500	
	42	80.6	204.8	120,500	
	44	80.0	204.5	111,800	
	46	79.4	204.1	104,100	
	48	78.9	203.7	97,200	
	50	78.3	203.2	91,100	
	55	76.8	202.1	78,100	
	60	75.3	200.7	67,800	
	65	73.8	199.3	59,500	
	70	72.3	197.7	52,600	
	75	70.8	195.9	46,700	
	80	69.3	194.0	41,700	
	85	67.7	192.0	37,400	
	90	66.2	189.8	33,600	
	95	64.6	187.4	30,300	
	100	63.0	184.8	27,400	
	105	61.3	182.1	24,700	
210	110	59.7	179.2	22,400	
	115	58.0	176.0	20,200	
	120	56.3	172.7	18,300	
	125	54.5	169.1	16,500	
	130	52.7	165.3	14,900	
	135	50.9	161.3	13,400	
	140	49.0	157.0	12,000	
	145	47.0	152.3	10,700	
	150	45.0	147.3	9,600	
	155	42.9	142.0	8,500	
	160	40.7	136.2	7,400	
	165	38.4	130.0	6,500	
	170	36.0	123.2	5,600	
	175	33.4	115.8	4,700	
	210	36	82.7	215.9	155,000
		38	82.2	215.6	141,700
		40	81.6	215.3	130,200
		42	81.1	215.0	120,300
		44	80.5	214.6	111,600
		46	80.0	214.3	103,900
48		79.4	213.9	97,000	
50		78.8	213.5	90,800	
55		77.4	212.3	77,900	
60		76.0	211.1	67,600	
65		74.6	209.7	59,200	
70		73.2	208.2	52,300	
75		71.8	206.5	46,500	
80		70.3	204.7	41,500	
85		68.8	202.8	37,200	
90		67.4	200.7	33,400	
95		65.9	198.5	30,100	
100		64.4	196.1	27,100	
105		62.8	193.5	24,500	
110		61.3	190.8	22,100	
220	115	59.7	187.8	20,000	
	120	58.1	184.7	18,000	
	125	56.4	181.4	16,300	
	130	54.8	177.9	14,600	
	135	53.1	174.1	13,200	
	140	51.3	170.1	11,800	
	145	49.5	165.9	10,500	
	150	47.7	161.4	9,300	
	155	45.8	156.5	8,200	
	160	43.8	151.3	7,200	
230	165	41.8	145.8	6,200	
	170	39.7	139.8	5,300	
	175	37.4	133.4	4,500	

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

BOOM NO. 44 WITH HEAVY LIFT TOP
82,400 LB. COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

M-250

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
220	38	82.5	225.8	141,200
	40	82.0	225.5	129,700
	42	81.5	225.1	119,800
	44	80.9	224.8	111,000
	46	80.4	224.4	103,300
	48	79.9	224.1	96,400
	50	79.4	223.7	90,300
	55	78.0	222.6	77,300
	60	76.7	221.4	67,000
	65	75.3	220.1	58,600
	70	74.0	218.7	51,700
	75	72.6	217.1	45,800
	80	71.2	215.4	40,800
	85	69.9	213.5	36,500
	90	68.5	211.6	32,700
	95	67.0	209.4	29,400
	100	65.6	207.2	26,400
	105	64.2	204.7	23,800
	110	62.7	202.2	21,400
	115	61.2	199.4	19,300
230	120	59.7	196.5	17,400
	125	58.2	193.4	15,600
	130	56.6	190.1	14,000
	135	55.0	186.6	12,500
	140	53.4	182.9	11,100
	145	51.7	179.0	9,800
	150	50.1	174.8	8,600
	155	48.3	170.4	7,500
	160	46.5	165.6	6,500
	165	44.7	160.6	5,500
240	170	42.8	155.2	4,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
240	38	82.9	235.9	140,700
	40	82.4	235.6	129,300
	42	81.8	235.3	119,300
	44	81.3	234.9	110,600
	46	80.8	234.6	102,800
	48	80.3	234.2	95,900
	50	79.8	233.9	89,800
	55	78.6	232.9	76,800
	60	77.3	231.7	66,500
	65	76.0	230.5	58,100
250	70	74.7	229.1	51,100
	75	73.4	227.6	45,300
	80	72.1	226.0	40,300
	85	70.8	224.2	35,900
	90	69.4	222.3	32,200
	95	68.1	220.3	28,800
	100	66.7	218.2	25,900
	105	65.4	215.9	23,200
	110	64.0	213.4	20,900
	115	62.6	210.8	18,700
260	120	61.2	208.1	16,800
	125	59.7	205.1	15,000
	130	58.3	202.1	13,400
	135	56.8	198.8	11,900
	140	55.2	195.3	10,500
	145	53.7	191.7	9,200
	150	52.1	187.8	8,000
	155	50.5	183.7	6,900
	160	48.9	179.3	5,900
	165	47.2	174.7	4,900
270	170	45.4	169.8	4,000