

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

**BOOM NO. 75A
MAST NO. 75 OR NO. 75A
JIB NO. 49A-44 WITH HEAVY LIFT TOP
SET AT 20 DEGREE OFFSET
60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS
52,000 LB. CRANE COUNTERWEIGHT
1,577,600 LB. AUXILIARY 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 (*).

WEIGHT OF ALL LOAD BLOCKS, HOOKS, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. WEIGHT OF JIB AND 20,000 LBS. SUSPENDED BENEATH JIB POINT SHEAVES HAVE BEEN INCLUDED IN CAPACITY DETERMINATION. 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 ROLLER PATH LEVEL WITHIN A TOLERANCE OF 1-1/4" IN 60' AND PROPERLY SUPPORTED. DURING OPERATION, JIB MUST BE SET AT PROPER OFFSET ANGLE. REFER TO BOOM RIGGING NO. 173398 OR NO. 177315, JIB ASSEMBLY NO. 177023 AND WIRE ROPE SPECIFICATION CHART NO. 7683-H. 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.

MACHINE MAY BE OPERATED IN WINDS UP TO 30 MPH PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE 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 AND LOWERING BOOM AND JIB TO APPROXIMATELY 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS 30 MPH. LOWER BOOM AND JIB TO GROUND WHEN WIND IS ABOVE 50 MPH.

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 60' RINGER ATTACHMENT, 30'9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 150' NO. 75 MAST WITH 20 PART OR 32 PART BOOM HOIST REEVING OR NO. 75A MAST WITH 32 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, FOUR 1-1/2" JIB PENDANTS AND BACKSTAYS, 52,000 LB. CRANE COUNTERWEIGHT AND 1,577,600 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED	
BOOM LGTH.	JIB NO. 49A-44
350'	100'
300'	160'
275'	240'
LOAD BLOCKS ON GROUND AT START.	

UPPER BOOM POINT MUST BE REMOVED FROM MAIN BOOM AND UPPER JIB POINT MUST BE REMOVED FROM JIB FOR USE OF THIS CHART.

WARNING: CHECK AMOUNT OF AUXILIARY COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.

CONSULT CHART NO. 7818-A FOR JIB CAPACITIES.

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100 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	80.7	159.0	1,616,700*
	60	78.7	158.0	1,616,700*
	65	76.8	156.9	1,616,700*
	70	74.8	155.5	1,596,900*
	75	72.8	154.0	1,394,900*
	80	70.8	152.2	1,231,200*
	85	68.7	150.3	1,095,800*
	90	66.6	148.1	981,700*
	95	64.5	145.7	884,100*
	100	62.4	143.1	799,700*
	105	60.2	140.3	725,600*
	110	57.9	137.1	660,100*
	115	55.6	133.7	601,600*
	120	53.2	130.0	548,900*
	125	50.8	126.0	501,000*
	130	48.2	121.5	457,200*
175	135	45.6	116.7	416,800*
	140	42.8	111.4	379,200*
	145	39.8	105.5	343,900*
	150	36.7	98.9	310,400*
	155	33.2	91.4	278,300*
	160	29.5	82.9	247,000*
	60	80.4	183.5	1,462,500*
	65	78.7	182.5	1,462,500*
	70	77.0	181.4	1,462,500*
	75	75.3	180.1	1,462,500*
	80	73.6	178.6	1,313,600*
	85	71.9	177.0	1,175,500*
	90	70.2	175.2	1,059,000*
	95	68.4	173.2	959,300*
	100	66.6	171.0	872,800*
	105	64.8	168.7	797,100*
200	110	63.0	166.1	730,100*
	115	61.1	163.4	670,300*
	120	59.2	160.4	616,600*
	125	57.2	157.2	568,000*
	130	55.3	153.7	523,700*
	135	53.2	150.0	483,100*
	140	51.1	146.0	445,600*
	145	49.0	141.7	410,900*
	150	46.7	137.0	378,600*
	155	44.4	132.0	348,200*
	160	42.0	126.5	319,600*
	165	39.4	120.5	292,300*
	170	36.7	113.9	266,300*
	175	33.8	106.6	241,100*
	180	30.6	98.4	216,500*
225	65	80.1	208.0	1,317,600*
	70	78.7	207.0	1,317,600*
	75	77.2	205.9	1,308,400*
	80	75.7	204.6	1,292,400*
	85	74.2	203.2	1,178,500*
	90	72.7	201.6	1,068,400*
	95	71.2	199.9	973,700*
	100	69.7	198.1	891,400*
	105	68.1	196.1	819,000*
	110	66.6	193.9	754,800*
	115	65.0	191.6	697,400*
	120	63.4	189.1	645,700*
	125	61.8	186.4	598,800*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	130	60.1	183.6	556,000*
	135	58.4	180.5	516,900*
	140	56.7	177.2	480,700*
	145	55.0	173.7	447,300*
	150	53.2	170.0	416,200*
	155	51.4	166.0	387,200*
	160	49.5	161.8	359,900*
	165	47.6	157.3	334,300*
	170	45.6	152.4	310,000*
	175	43.5	147.2	286,900*
	180	41.3	141.6	264,900*
	185	39.1	135.5	243,800*
	190	36.7	128.9	223,400*
	195	34.2	121.7	203,500*
	200	31.5	113.7	184,100*
	205	28.6	104.8	164,800*
225	70	79.9	232.5	1,156,700*
	75	78.6	231.5	1,143,800*
	80	77.3	230.4	1,130,800*
	85	76.0	229.2	1,117,500*
	90	74.7	227.8	1,037,500*
	95	73.4	226.3	950,600*
	100	72.0	224.7	874,800*
	105	70.7	222.9	808,000*
	110	69.3	221.0	748,600*
	115	68.0	219.0	695,300*
	120	66.6	216.8	647,100*
	125	65.2	214.5	603,400*
	130	63.7	212.1	563,500*
	135	62.3	209.4	526,700*
	140	60.8	206.7	492,900*
	145	59.4	203.7	461,500*
250	150	57.9	200.6	432,300*
	155	56.3	197.3	405,000*
	160	54.8	193.7	379,400*
	165	53.2	190.0	355,300*
	170	51.6	186.1	332,600*
	175	49.9	181.9	311,100*
	180	48.2	177.4	290,700*
	185	46.5	172.7	271,200*
	190	44.7	167.7	252,500*
	195	42.8	162.3	234,700*
	200	40.9	156.6	217,400*
	205	38.8	150.5	200,800*
	210	36.7	143.9	184,600*
	215	34.5	136.7	168,700*
	220	32.1	128.9	153,200*
	225	29.6	120.3	137,700*
275	70	81.0	257.9	1,011,900*
	75	79.8	257.0	1,001,700*
	80	78.6	256.0	991,400*
	85	77.4	254.9	980,700*
	90	76.3	253.7	967,800*
	95	75.1	252.3	905,600*
	100	73.9	250.9	836,500*
	105	72.7	249.3	775,500*
	110	71.5	247.7	721,100*
	115	70.3	245.9	672,400*
	120	69.0	244.0	628,300*
	125	67.8	241.9	588,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	130	66.6	239.8	551,400*
	135	65.3	237.5	517,600*
	140	64.0	235.0	486,400*
	145	62.7	232.4	457,500*
	150	61.4	229.7	430,500*
	155	60.1	226.9	405,300*
	160	58.8	223.8	381,600*
	165	57.4	220.6	359,300*
	170	56.0	217.3	338,300*
	175	54.6	213.7	318,400*
	180	53.2	210.0	299,500*
	185	51.7	206.1	281,600*
	190	50.2	201.9	264,400*
	195	48.7	197.6	248,000*
	200	47.2	193.0	232,300*
	205	45.6	188.1	217,100*
275	210	43.9	183.0	202,500*
	215	42.2	177.5	188,400*
	220	40.5	171.7	174,700*
	225	38.6	165.5	161,400*
	230	36.7	158.9	148,300*
	235	34.8	151.8	135,500*
	240	32.7	144.1	122,900*
	245	30.4	135.8	110,400*
	75	80.7	282.4	882,600*
	80	79.7	281.5	874,300*
	85	78.6	280.5	864,200*
	90	77.5	279.4	849,600*
	95	76.5	278.2	829,800*
	100	75.4	276.9	789,000*
	105	74.3	275.5	733,200*
	110	73.2	274.0	683,500*
300	115	72.1	272.4	638,900*
	120	71.0	270.7	598,600*
	125	69.9	268.8	561,900*
	130	68.8	266.9	528,300*
	135	67.7	264.8	497,400*
	140	66.5	262.7	468,800*
	145	65.4	260.4	442,300*
	150	64.2	258.0	417,600*
	155	63.1	255.4	394,500*
	160	61.9	252.8	372,800*
	165	60.7	250.0	352,400*
	170	59.5	247.0	333,100*
	175	58.3	243.9	314,800*
	180	57.0	240.7	297,500*
	185	55.8	237.3	281,000*
	190	54.5	233.7	265,300*
325	195	53.2	230.0	250,300*
	200	51.9	226.1	235,900*
	205	50.5	222.0	222,100*
	210	49.1	217.7	208,800*
	215	47.7	213.2	196,000*
	220	46.3	208.4	183,600*
	225	44.8	203.4	171,600*
	230	43.3	198.2	160,000*
	235	41.8	192.6	148,600*
	240	40.1	186.7	137,600*
	245	38.5	180.5	126,800*
	250	36.8	173.9	116,200*
	255	35.0	166.8	105,700*

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BOOM NO. 75A

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JIB NO. 49A-44 WITH HEAVY LIFT TOP

SET AT 20 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

100 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
300	80	80.5	306.9	758,400*
	85	79.6	306.0	742,200*
	90	78.6	305.0	726,000*
	95	77.6	303.9	709,700*
	100	76.6	302.7	693,500*
	105	75.7	301.4	677,300*
	110	74.7	300.1	643,200*
	115	73.7	298.6	601,900*
	120	72.7	297.0	564,700*
	125	71.7	295.4	530,800*
	130	70.6	293.6	499,800*
	135	69.6	291.8	471,300*
	140	68.6	289.8	445,000*
	145	67.6	287.7	420,600*
	150	66.5	285.6	397,900*
	155	65.5	283.3	376,600*
	160	64.4	280.9	356,600*
	165	63.4	278.4	337,800*
	170	62.3	275.8	320,100*
	175	61.2	273.0	303,300*
	180	60.1	270.2	287,400*
	185	59.0	267.2	272,300*
	190	57.8	264.0	257,800*
	195	56.7	260.7	244,000*
	200	55.5	257.3	230,800*
	205	54.4	253.7	218,200*
	210	53.2	250.0	206,000*
	215	52.0	246.1	194,300*
	220	50.7	242.0	183,000*
	225	49.5	237.8	172,100*
	230	48.2	233.3	161,500*
	235	46.9	228.7	151,200*
	240	45.6	223.8	141,300*
	245	44.2	218.7	131,600*
	250	42.8	213.3	122,100*
	255	41.4	207.7	112,800*
	260	39.9	201.8	103,800*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
325	85	80.4	331.4	629,200*
	90	79.5	330.5	615,800*
	95	78.6	329.5	602,300*
	100	77.7	328.4	588,600*
	105	76.8	327.2	574,900*
	110	75.9	326.0	561,300*
	115	75.0	324.6	547,700*
	120	74.0	323.2	530,800*
	125	73.1	321.7	499,200*
	130	72.2	320.1	470,300*
	135	71.3	318.4	443,800*
	140	70.3	316.6	419,400*
	145	69.4	314.7	396,700*
	150	68.4	312.7	375,600*
	155	67.5	310.7	355,900*
	160	66.5	308.5	337,400*
	165	65.6	306.2	320,000*
	170	64.6	303.8	303,600*
	175	63.6	301.4	288,100*
	180	62.6	298.8	273,400*
	185	61.6	296.1	259,500*
	190	60.6	293.3	246,200*
	195	59.6	290.3	233,500*
	200	58.5	287.3	221,300*
	205	57.5	284.1	209,700*
	210	56.4	280.8	198,500*
	215	55.4	277.3	187,700*
	220	54.3	273.7	177,300*
	225	53.2	270.0	167,300*
	230	52.1	266.1	157,700*
	235	50.9	262.1	148,300*
	240	49.8	257.9	139,200*
	245	48.6	253.5	130,400*
	250	47.4	248.9	121,800*
	255	46.2	244.1	113,500*
	260	44.9	239.1	105,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
350	90	80.2	355.9	528,600*
	95	79.4	355.0	517,100*
	100	78.6	354.0	505,400*
	105	77.7	352.9	493,600*
	110	76.9	351.7	481,800*
	115	76.1	350.5	469,900*
	120	75.2	349.2	458,000*
	125	74.4	347.8	445,600*
	130	73.5	346.3	433,300*
	135	72.6	344.7	414,400*
	140	71.8	343.1	391,500*
	145	70.9	341.4	370,300*
	150	70.0	339.5	350,600*
	155	69.2	337.6	332,200*
	160	68.3	335.7	315,000*
	165	67.4	333.6	298,800*
	170	66.5	331.4	283,500*
	175	65.6	329.1	269,100*
	180	64.7	326.8	255,500*
	185	63.8	324.3	242,500*
	190	62.9	321.8	230,200*
	195	62.0	319.1	218,400*
	200	61.0	316.3	207,200*
	205	60.1	313.5	196,400*
	210	59.1	310.5	186,100*
	215	58.2	307.4	176,100*
	220	57.2	304.2	166,600*
	225	56.2	300.8	157,400*
	230	55.2	297.3	148,500*
	235	54.2	293.7	139,900*
	240	53.2	290.0	131,500*
	245	52.1	286.1	123,500*
	250	51.1	282.1	115,600*
	255	50.0	277.9	108,000*
	260	48.9	273.6	100,500*

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60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

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1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

120 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	80.7	159.0	1,587,800*
	60	78.7	158.0	1,587,800*
	65	76.8	156.9	1,587,800*
	70	74.8	155.5	1,574,200*
	75	72.8	154.0	1,373,000*
	80	70.8	152.2	1,210,000*
	85	68.7	150.3	1,075,200*
	90	66.6	148.1	961,600*
	95	64.5	145.7	864,400*
	100	62.4	143.1	780,300*
	105	60.2	140.3	706,600*
	110	57.9	137.1	641,400*
	115	55.6	133.7	583,200*
	120	53.2	130.0	530,700*
	125	50.8	126.0	483,100*
	130	48.2	121.5	439,400*
175	135	45.6	116.7	399,200*
	140	42.8	111.4	361,800*
	145	39.8	105.5	326,700*
	150	36.7	98.9	293,400*
	155	33.2	91.4	261,500*
	160	29.5	82.9	230,300*
	60	80.4	183.5	1,433,300*
	65	78.7	182.5	1,433,300*
	70	77.0	181.4	1,433,300*
	75	75.3	180.1	1,433,300*
	80	73.6	178.6	1,293,300*
	85	71.9	177.0	1,155,800*
	90	70.2	175.2	1,039,700*
	95	68.4	173.2	940,400*
	100	66.6	171.0	854,300*
	105	64.8	168.7	778,900*
200	110	63.0	166.1	712,200*
	115	61.1	163.4	652,700*
	120	59.2	160.4	599,200*
	125	57.2	157.2	550,800*
	130	55.3	153.7	506,800*
	135	53.2	150.0	466,300*
	140	51.1	146.0	429,100*
	145	49.0	141.7	394,500*
	150	46.7	137.0	362,300*
	155	44.4	132.0	332,100*
	160	42.0	126.5	303,600*
	165	39.4	120.5	276,500*
	170	36.7	113.9	250,600*
	175	33.8	106.6	225,600*
	180	30.6	98.4	201,100*
225	65	80.1	208.0	1,291,500*
	70	78.7	207.0	1,291,500*
	75	77.2	205.9	1,291,500*
	80	75.7	204.6	1,288,800*
	85	74.2	203.2	1,159,500*
	90	72.7	201.6	1,049,800*
	95	71.2	199.9	955,600*
	100	69.7	198.1	873,600*
	105	68.1	196.1	801,600*
	110	66.6	193.9	737,700*
	115	65.0	191.6	680,500*
	120	63.4	189.1	629,000*
	125	61.8	186.4	582,400*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	130	60.1	183.6	539,800*
	135	58.4	180.5	500,800*
	140	56.7	177.2	464,800*
	145	55.0	173.7	431,600*
	150	53.2	170.0	400,600*
	155	51.4	166.0	371,700*
	160	49.5	161.8	344,600*
	165	47.6	157.3	319,100*
	170	45.6	152.4	294,900*
	175	43.5	147.2	272,000*
	180	41.3	141.6	250,100*
	185	39.1	135.5	229,000*
	190	36.7	128.9	208,700*
	195	34.2	121.7	189,000*
	200	31.5	113.7	169,700*
	205	28.6	104.8	150,500*
225	70	79.9	232.5	1,165,000*
	75	78.6	231.5	1,151,300*
	80	77.3	230.4	1,135,300*
	85	76.0	229.2	1,119,100*
	90	74.7	227.8	1,099,600*
	95	73.4	226.3	933,100*
	100	72.0	224.7	857,700*
	105	70.7	222.9	791,200*
	110	69.3	221.0	732,000*
	115	68.0	219.0	679,000*
	120	66.6	216.8	631,100*
	125	65.2	214.5	587,600*
	130	63.7	212.1	547,800*
	135	62.3	209.4	511,200*
	140	60.8	206.7	477,500*
	145	59.4	203.7	446,300*
250	150	57.9	200.6	417,200*
	155	56.3	197.3	390,100*
	160	54.8	193.7	364,600*
	165	53.2	190.0	340,600*
	170	51.6	186.1	318,000*
	175	49.9	181.9	296,600*
	180	48.2	177.4	276,300*
	185	46.5	172.7	256,900*
	190	44.7	167.7	238,400*
	195	42.8	162.3	220,600*
	200	40.9	156.6	203,400*
	205	38.8	150.5	186,900*
	210	36.7	143.9	170,700*
	215	34.5	136.7	155,000*
	220	32.1	128.9	139,500*
	225	29.6	120.3	124,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	130	66.6	239.8	536,300*
	135	65.3	237.5	502,600*
	140	64.0	235.0	471,600*
	145	62.7	232.4	442,800*
	150	61.4	229.7	415,900*
	155	60.1	226.9	390,800*
	160	58.8	223.8	367,300*
	165	57.4	220.6	345,100*
	170	56.0	217.3	324,200*
	175	54.6	213.7	304,400*
	180	53.2	210.0	285,600*
	185	51.7	206.1	267,700*
	190	50.2	201.9	250,700*
	195	48.7	197.6	234,300*
	200	47.2	193.0	218,700*
	205	45.6	188.1	203,600*
275	210	43.9	183.0	189,100*
	215	42.2	177.5	175,000*
	220	40.5	171.7	161,400*
	225	38.6	165.5	148,100*
	230	36.7	158.9	135,200*
	235	34.8	151.8	122,400*
	240	32.7	144.1	109,900*
	75	80.7	282.4	868,900*
	80	79.7	281.5	858,600*
	85	78.6	280.5	848,000*
	90	77.5	279.4	831,000*
	95	76.5	278.2	811,300*
	100	75.4	276.9	772,600*
	105	74.3	275.5	717,100*
	110	73.2	274.0	667,700*
	115	72.1	272.4	623,400*
300	120	71.0	270.7	583,300*
	125	69.9	268.8	546,800*
	130	68.8	266.9	513,400*
	135	67.7	264.8	482,700*
	140	66.5	262.7	454,300*
	145	65.4	260.4	427,900*
	150	64.2	258.0	403,300*
	155	63.1	255.4	380,300*
	160	61.9	252.8	358,700*
	165	60.7	250.0	338,400*
	170	59.5	247.0	319,200*
	175	58.3	243.9	301,100*
	180	57.0	240.7	283,900*
	185	55.8	237.3	267,500*
	190	54.5	233.7	251,800*
	195	53.2	230.0	236,900*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

**BOOM NO. 75A
MAST NO. 75 OR NO. 75A
JIB NO. 49A-44 WITH HEAVY LIFT TOP
SET AT 20 DEGREE OFFSET
60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS
52,000 LB. CRANE COUNTERWEIGHT
1,577,600 LB. AUXILIARY COUNTERWEIGHT
360 DEGREE RATING**

120 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
3 0 0	80	80.5	306.9	739,900*
	85	79.6	306.0	723,900*
	90	78.6	305.0	707,800*
	95	77.6	303.9	691,600*
	100	76.6	302.7	675,400*
	105	75.7	301.4	659,400*
	110	74.7	300.1	627,800*
	115	73.7	298.6	586,800*
	120	72.7	297.0	549,800*
	125	71.7	295.4	516,100*
	130	70.6	293.6	485,300*
	135	69.6	291.8	457,000*
	140	68.6	289.8	430,900*
	145	67.6	287.7	406,600*
	150	66.5	285.6	383,900*
	155	65.5	283.3	362,800*
	160	64.4	280.9	342,900*
	165	63.4	278.4	324,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
3 0 0	170	62.3	275.8	306,600*
	175	61.2	273.0	289,900*
	180	60.1	270.2	274,100*
	185	59.0	267.2	259,000*
	190	57.8	264.0	244,700*
	195	56.7	260.7	231,000*
	200	55.5	257.3	217,800*
	205	54.4	253.7	205,200*
	210	53.2	250.0	193,100*
	215	52.0	246.1	181,500*
	220	50.7	242.0	170,300*
	225	49.5	237.8	159,400*
	230	48.2	233.3	148,900*
	235	46.9	228.7	138,700*
	240	45.6	223.8	128,800*
	245	44.2	218.7	119,100*
	250	42.8	213.3	109,700*
	255	41.4	207.7	100,500*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

**BOOM NO. 75A
MAST NO. 75 OR NO. 75A
JIB NO. 49A-44 WITH HEAVY LIFT TOP
SET AT 20 DEGREE OFFSET
60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS
52,000 LB. CRANE COUNTERWEIGHT
1,577,600 LB. AUXILIARY COUNTERWEIGHT
360 DEGREE RATING**

140 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	80.7	159.0	1,550,200*
	60	78.7	158.0	1,550,200*
	65	76.8	156.9	1,550,200*
	70	74.8	155.5	1,547,800*
	75	72.8	154.0	1,347,800*
	80	70.8	152.2	1,185,700*
	85	68.7	150.3	1,051,700*
	90	66.6	148.1	938,800*
	95	64.5	145.7	842,300*
	100	62.4	143.1	758,700*
	105	60.2	140.3	685,400*
	110	57.9	137.1	620,600*
	115	55.6	133.7	562,800*
	120	53.2	130.0	510,600*
	125	50.8	126.0	463,300*
	130	48.2	121.5	420,000*
	135	45.6	116.7	380,100*
	140	42.8	111.4	342,900*
	145	39.8	105.5	308,100*
	150	36.7	98.9	275,100*
	155	33.2	91.4	243,400*
	160	29.5	82.9	212,500*
175	60	80.4	183.5	1,402,500*
	65	78.7	182.5	1,402,500*
	70	77.0	181.4	1,402,500*
	75	75.3	180.1	1,402,500*
	80	73.6	178.6	1,269,800*
	85	71.9	177.0	1,133,100*
	90	70.2	175.2	1,017,800*
	95	68.4	173.2	919,100*
	100	66.6	171.0	833,500*
	105	64.8	168.7	758,600*
	110	63.0	166.1	692,300*
	115	61.1	163.4	633,200*
	120	59.2	160.4	580,000*
	125	57.2	157.2	531,900*
	130	55.3	153.7	488,100*
	135	53.2	150.0	448,000*
	140	51.1	146.0	411,000*
	145	49.0	141.7	376,700*
	150	46.7	137.0	344,700*
	155	44.4	132.0	314,700*
	160	42.0	126.5	286,400*
	165	39.4	120.5	259,500*
	170	36.7	113.9	233,800*
	175	33.8	106.6	209,000*
	180	30.6	98.4	184,700*
200	65	80.1	208.0	1,263,900*
	70	78.7	207.0	1,263,900*
	75	77.2	205.9	1,263,900*
	80	75.7	204.6	1,263,900*
	85	74.2	203.2	1,137,900*
	90	72.7	201.6	1,028,900*
	95	71.2	199.9	935,300*
	100	69.7	198.1	853,800*
	105	68.1	196.1	782,200*
	110	66.6	193.9	718,600*
	115	65.0	191.6	661,800*
	120	63.4	189.1	610,700*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	125	61.8	186.4	564,300*
	130	60.1	183.6	522,000*
	135	58.4	180.5	483,200*
	140	56.7	177.2	447,500*
	145	55.0	173.7	414,400*
	150	53.2	170.0	383,700*
	155	51.4	166.0	355,000*
	160	49.5	161.8	328,000*
	165	47.6	157.3	302,700*
	170	45.6	152.4	278,700*
	175	43.5	147.2	255,900*
	180	41.3	141.6	234,100*
	185	39.1	135.5	213,300*
	190	36.7	128.9	193,100*
	195	34.2	121.7	173,500*
	200	31.5	113.7	154,400*
	205	28.6	104.8	135,400*
225	70	79.9	232.5	1,135,200*
	75	78.6	231.5	1,122,400*
	80	77.3	230.4	1,106,400*
	85	76.0	229.2	1,090,300*
	90	74.7	227.8	999,100*
	95	73.4	226.3	913,200*
	100	72.0	224.7	838,300*
	105	70.7	222.9	772,200*
	110	69.3	221.0	713,500*
	115	68.0	219.0	660,800*
	120	66.6	216.8	613,200*
	125	65.2	214.5	570,000*
	130	63.7	212.1	530,500*
	135	62.3	209.4	494,200*
	140	60.8	206.7	460,700*
	145	59.4	203.7	429,600*
	150	57.9	200.6	400,800*
	155	56.3	197.3	373,800*
	160	54.8	193.7	348,500*
	165	53.2	190.0	324,700*
	170	51.6	186.1	302,300*
	175	49.9	181.9	281,000*
	180	48.2	177.4	260,800*
	185	46.5	172.7	241,600*
	190	44.7	167.7	223,100*
	195	42.8	162.3	205,500*
	200	40.9	156.6	188,500*
	205	38.8	150.5	172,000*
	210	36.7	143.9	156,000*
	215	34.5	136.7	140,400*
	220	32.1	128.9	125,000*
	225	29.6	120.3	109,800*
250	70	81.0	257.9	986,800*
	75	79.8	257.0	974,400*
	80	78.6	256.0	961,700*
	85	77.4	254.9	948,700*
	90	76.3	253.7	935,600*
	95	75.1	252.3	869,300*
	100	73.9	250.9	801,100*
	105	72.7	249.3	740,800*
	110	71.5	247.7	687,200*
	115	70.3	245.9	639,000*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	120	69.0	244.0	595,400*
	125	67.8	241.9	555,700*
	130	66.6	239.8	519,500*
	135	65.3	237.5	486,100*
	140	64.0	235.0	455,200*
	145	62.7	232.4	426,600*
	150	61.4	229.7	400,000*
	155	60.1	226.9	375,000*
	160	58.8	223.8	351,700*
	165	57.4	220.6	329,600*
	170	56.0	217.3	308,900*
	175	54.6	213.7	289,200*
	180	53.2	210.0	270,600*
	185	51.7	206.1	252,800*
	190	50.2	201.9	235,800*
	195	48.7	197.6	219,600*
	200	47.2	193.0	204,100*
275	205	45.6	188.1	189,100*
	210	43.9	183.0	174,700*
	215	42.2	177.5	160,800*
	220	40.5	171.7	147,200*
	225	38.6	165.5	134,100*
	230	36.7	158.9	121,200*
	235	34.8	151.8	108,600*
	75	80.7	282.4	850,100*
	80	79.7	281.5	839,900*
	85	78.6	280.5	829,400*
	90	77.5	279.4	810,200*
	95	76.5	278.2	790,600*
	100	75.4	276.9	754,000*
	105	74.3	275.5	699,000*
	110	73.2	274.0	650,000*
	115	72.1	272.4	606,000*
	120	71.0	270.7	566,200*
	125	69.9	268.8	530,000*
	130	68.8	266.9	496,900*
	135	67.7	264.8	466,400*
	140	66.5	262.7	438,200*
	145	65.4	260.4	412,000*
	150	64.2	258.0	387,600*
	155	63.1	255.4	364,800*
	160	61.9	252.8	343,400*
	165	60.7	250.0	323,200*
	170	59.5	247.0	304,200*
	175	58.3	243.9	286,200*
	180	57.0	240.7	269,100*
	185	55.8	237.3	252,800*
	190	54.5	233.7	237,300*
	195	53.2	230.0	222,500*
	200	51.9	226.1	208,300*
	205	50.5	222.0	194,600*
	210	49.1	217.7	181,500*
	215	47.7	213.2	168,900*
	220	46.3	208.4	156,600*
	225	44.8	203.4	144,800*
	230	43.3	198.2	133,300*
	235	41.8	192.6	122,100*
	240	40.1	186.7	111,200*
	245	38.5	180.5	100,600*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

JIB NO. 49A-44 WITH HEAVY LIFT TOP

SET AT 20 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

140 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
3 0 0	80	80.5	306.9	719,200*
	85	79.6	306.0	703,300*
	90	78.6	305.0	687,300*
	95	77.6	303.9	671,200*
	100	76.6	302.7	655,300*
	105	75.7	301.4	639,300*
	110	74.7	300.1	610,600*
	115	73.7	298.6	569,900*
	120	72.7	297.0	533,200*
	125	71.7	295.4	499,800*
	130	70.6	293.6	469,300*
	135	69.6	291.8	441,200*
	140	68.6	289.8	415,200*
	145	67.6	287.7	391,100*
	150	66.5	285.6	368,700*
	155	65.5	283.3	347,700*
	160	64.4	280.9	328,000*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
3 0 0	165	63.4	278.4	309,500*
	170	62.3	275.8	292,000*
	175	61.2	273.0	275,400*
	180	60.1	270.2	259,700*
	185	59.0	267.2	244,700*
	190	57.8	264.0	230,500*
	195	56.7	260.7	216,900*
	200	55.5	257.3	203,900*
	205	54.4	253.7	191,400*
	210	53.2	250.0	179,400*
	215	52.0	246.1	167,800*
	220	50.7	242.0	156,600*
	225	49.5	237.8	145,900*
	230	48.2	233.3	135,400*
	235	46.9	228.7	125,300*
	240	45.6	223.8	115,500*
	245	44.2	218.7	105,900*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

JIB NO. 49A-44 WITH HEAVY LIFT TOP

SET AT 20 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

160 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	80.7	159.0	1,517,600*
	60	78.7	158.0	1,517,600*
	65	76.8	156.9	1,517,600*
	70	74.8	155.5	1,517,600*
	75	72.8	154.0	1,324,400*
	80	70.8	152.2	1,163,200*
	85	68.7	150.3	1,029,900*
	90	66.6	148.1	917,600*
	95	64.5	145.7	821,600*
	100	62.4	143.1	738,500*
	105	60.2	140.3	665,700*
	110	57.9	137.1	601,200*
	115	55.6	133.7	543,700*
	120	53.2	130.0	491,900*
	125	50.8	126.0	444,800*
	130	48.2	121.5	401,800*
175	135	45.6	116.7	362,100*
	140	42.8	111.4	325,200*
	145	39.8	105.5	290,600*
	150	36.7	98.9	257,800*
	155	33.2	91.4	226,400*
	160	29.5	82.9	195,700*
	60	80.4	183.5	1,372,500*
	65	78.7	182.5	1,372,500*
	70	77.0	181.4	1,372,500*
	75	75.3	180.1	1,372,500*
	80	73.6	178.6	1,247,900*
	85	71.9	177.0	1,112,000*
	90	70.2	175.2	997,300*
	95	68.4	173.2	899,200*
	100	66.6	171.0	814,100*
	105	64.8	168.7	739,600*
200	110	63.0	166.1	673,700*
	115	61.1	163.4	614,900*
	120	59.2	160.4	562,100*
	125	57.2	157.2	514,300*
	130	55.3	153.7	470,800*
	135	53.2	150.0	430,800*
	140	51.1	146.0	394,100*
	145	49.0	141.7	360,000*
	150	46.7	137.0	328,200*
	155	44.4	132.0	298,400*
	160	42.0	126.5	270,300*
	165	39.4	120.5	243,600*
	170	36.7	113.9	218,100*
	175	33.8	106.6	193,400*
	180	30.6	98.4	169,400*
250	65	80.1	208.0	1,236,800*
	70	78.7	207.0	1,236,800*
	75	77.2	205.9	1,236,800*
	80	75.7	204.6	1,236,800*
	85	74.2	203.2	1,117,500*
	90	72.7	201.6	1,009,200*
	95	71.2	199.9	916,100*
	100	69.7	198.1	835,100*
	105	68.1	196.1	764,000*
	110	66.6	193.9	700,800*
	115	65.0	191.6	644,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	120	63.4	189.1	593,500*
	125	61.8	186.4	547,400*
	130	60.1	183.6	505,300*
	135	58.4	180.5	466,800*
	140	56.7	177.2	431,300*
	145	55.0	173.7	398,400*
	150	53.2	170.0	367,900*
	155	51.4	166.0	339,300*
	160	49.5	161.8	312,600*
	165	47.6	157.3	287,400*
	170	45.6	152.4	263,500*
	175	43.5	147.2	240,900*
	180	41.3	141.6	219,300*
	185	39.1	135.5	198,600*
	190	36.7	128.9	178,600*
	195	34.2	121.7	159,200*
225	200	31.5	113.7	140,100*
	205	28.6	104.8	121,300*
	70	79.9	232.5	1,110,600*
	75	78.6	231.5	1,108,200*
	80	77.3	230.4	1,092,400*
	85	76.0	229.2	1,076,400*
	90	74.7	227.8	980,000*
	95	73.4	226.3	894,700*
	100	72.0	224.7	820,300*
	105	70.7	222.9	754,700*
	110	69.3	221.0	696,300*
	115	68.0	219.0	643,900*
	120	66.6	216.8	596,600*
	125	65.2	214.5	553,700*
	130	63.7	212.1	514,400*
	135	62.3	209.4	478,400*
250	140	60.8	206.7	445,100*
	145	59.4	203.7	414,300*
	150	57.9	200.6	385,600*
	155	56.3	197.3	358,700*
	160	54.8	193.7	333,600*
	165	53.2	190.0	310,000*
	170	51.6	186.1	287,700*
	175	49.9	181.9	266,600*
	180	48.2	177.4	246,500*
	185	46.5	172.7	227,400*
	190	44.7	167.7	209,100*
	195	42.8	162.3	191,500*
	200	40.9	156.6	174,600*
	205	38.8	150.5	158,300*
	210	36.7	143.9	142,400*
	215	34.5	136.7	126,900*
300	220	32.1	128.9	111,700*
	70	81.0	257.9	971,500*
	75	79.8	257.0	959,100*
	80	78.6	256.0	946,500*
	85	77.4	254.9	933,600*
	90	76.3	253.7	920,600*
	95	75.1	252.3	851,500*
	100	73.9	250.9	783,700*
	105	72.7	249.3	723,900*
	110	71.5	247.7	670,600*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	115	70.3	245.9	622,700*
	120	69.0	244.0	579,400*
	125	67.8	241.9	540,000*
	130	66.6	239.8	504,000*
	135	65.3	237.5	470,800*
	140	64.0	235.0	440,200*
	145	62.7	232.4	411,800*
	150	61.4	229.7	385,300*
	155	60.1	226.9	360,500*
	160	58.8	223.8	337,300*
	165	57.4	220.6	315,400*
	170	56.0	217.3	294,800*
	175	54.6	213.7	275,200*
	180	53.2	210.0	256,700*
	185	51.7	206.1	239,100*
	190	50.2	201.9	222,200*
300	195	48.7	197.6	206,100*
	200	47.2	193.0	190,700*
	205	45.6	188.1	175,800*
	210	43.9	183.0	161,500*
	215	42.2	177.5	147,600*
	220	40.5	171.7	134,200*
	225	38.6	165.5	121,100*
	230	36.7	158.9	108,300*
	75	80.7	282.4	833,700*
	80	79.7	281.5	823,600*
	85	78.6	280.5	811,000*
	90	77.5	279.4	791,500*
	95	76.5	278.2	772,100*
	100	75.4	276.9	736,800*
	105	74.3	275.5	682,200*
	110	73.2	274.0	633,600*
350	115	72.1	272.4	590,000*
	120	71.0	270.7	550,500*
	125	69.9	268.8	514,600*
	130	68.8	266.9	481,700*
	135	67.7	264.8	451,400*
	140	66.5	262.7	423,400*
	145	65.4	260.4	397,500*
	150	64.2	258.0	373,200*
	155	63.1	255.4	350,600*
	160	61.9	252.8	329,300*
	165	60.7	250.0	309,300*
	170	59.5	247.0	290,400*
	175	58.3	243.9	272,500*
	180	57.0	240.7	255,600*
	185	55.8	237.3	239,400*
	190	54.5	233.7	224,000*
400	195	53.2	230.0	209,300*
	200	51.9	226.1	195,200*
	205	50.5	222.0	181,600*
	210	49.1	217.7	168,600*
	215	47.7	213.2	156,000*
	220	46.3	208.4	143,900*
	225	44.8	203.4	132,200*
	230	43.3	198.2	120,800*
	235	41.8	192.6	109,700*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

JIB NO. 49A-44 WITH HEAVY LIFT TOP

SET AT 20 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

160 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
300	80	80.5	306.9	700,700*
	85	79.6	306.0	684,900*
	90	78.6	305.0	669,000*
	95	77.6	303.9	653,100*
	100	76.6	302.7	637,100*
	105	75.7	301.4	621,300*
	110	74.7	300.1	594,700*
	115	73.7	298.6	554,400*
	120	72.7	297.0	518,000*
	125	71.7	295.4	484,800*
	130	70.6	293.6	454,500*
	135	69.6	291.8	426,600*
	140	68.6	289.8	400,900*
	145	67.6	287.7	377,000*
	150	66.5	285.6	354,700*
	155	65.5	283.3	333,900*
	160	64.4	280.9	314,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
300	165	63.4	278.4	295,900*
	170	62.3	275.8	278,600*
	175	61.2	273.0	262,100*
	180	60.1	270.2	246,500*
	185	59.0	267.2	231,700*
	190	57.8	264.0	217,600*
	195	56.7	260.7	204,000*
	200	55.5	257.3	191,100*
	205	54.4	253.7	178,700*
	210	53.2	250.0	166,800*
	215	52.0	246.1	155,300*
	220	50.7	242.0	144,200*
	225	49.5	237.8	133,500*
	230	48.2	233.3	123,100*
	235	46.9	228.7	113,100*
	240	45.6	223.8	103,300*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

JIB NO. 49A-44 WITH HEAVY LIFT TOP

SET AT 20 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

180 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	80.7	159.0	1,477,600*
	60	78.7	158.0	1,477,600*
	65	76.8	156.9	1,477,600*
	70	74.8	155.5	1,477,600*
	75	72.8	154.0	1,298,000*
	80	70.8	152.2	1,137,800*
	85	68.7	150.3	1,005,300*
	90	66.6	148.1	893,700*
	95	64.5	145.7	798,300*
	100	62.4	143.1	715,700*
	105	60.2	140.3	643,300*
	110	57.9	137.1	579,300*
	115	55.6	133.7	522,200*
	120	53.2	130.0	470,700*
	125	50.8	126.0	424,000*
	130	48.2	121.5	381,300*
175	135	45.6	116.7	341,900*
	140	42.8	111.4	305,300*
	145	39.8	105.5	270,900*
	150	36.7	98.9	238,400*
	155	33.2	91.4	207,300*
	160	29.5	82.9	176,900*
	60	80.4	183.5	1,336,300*
	65	78.7	182.5	1,336,300*
	70	77.0	181.4	1,336,300*
	75	75.3	180.1	1,336,300*
	80	73.6	178.6	1,223,500*
	85	71.9	177.0	1,088,400*
	90	70.2	175.2	974,500*
	95	68.4	173.2	876,900*
	100	66.6	171.0	792,400*
200	105	64.8	168.7	718,300*
	110	63.0	166.1	652,900*
	115	61.1	163.4	594,500*
	120	59.2	160.4	542,000*
	125	57.2	157.2	494,500*
	130	55.3	153.7	451,300*
	135	53.2	150.0	411,600*
	140	51.1	146.0	375,100*
	145	49.0	141.7	341,200*
	150	46.7	137.0	309,700*
	155	44.4	132.0	280,100*
	160	42.0	126.5	252,200*
	165	39.4	120.5	225,700*
	170	36.7	113.9	200,400*
	175	33.8	106.6	176,000*
	180	30.6	98.4	152,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	115	65.0	191.6	624,700*
	120	63.4	189.1	574,200*
	125	61.8	186.4	528,400*
	130	60.1	183.6	486,700*
	135	58.4	180.5	448,400*
	140	56.7	177.2	413,100*
	145	55.0	173.7	380,500*
	150	53.2	170.0	350,100*
	155	51.4	166.0	321,800*
	160	49.5	161.8	295,200*
	165	47.6	157.3	270,200*
	170	45.6	152.4	246,600*
	175	43.5	147.2	224,100*
	180	41.3	141.6	202,600*
	185	39.1	135.5	182,100*
	190	36.7	128.9	162,200*
225	195	34.2	121.7	143,000*
	200	31.5	113.7	124,100*
	205	28.6	104.8	105,400*
	70	79.9	232.5	1,080,700*
	75	78.6	231.5	1,080,700*
	80	77.3	230.4	1,074,200*
	85	76.0	229.2	1,057,100*
	90	74.7	227.8	958,800*
	95	73.4	226.3	874,100*
	100	72.0	224.7	800,200*
	105	70.7	222.9	735,000*
	110	69.3	221.0	677,100*
	115	68.0	219.0	625,100*
	120	66.6	216.8	578,100*
	125	65.2	214.5	535,500*
	130	63.7	212.1	496,500*
250	135	62.3	209.4	460,700*
	140	60.8	206.7	427,600*
	145	59.4	203.7	397,000*
	150	57.9	200.6	368,500*
	155	56.3	197.3	341,900*
	160	54.8	193.7	316,900*
	165	53.2	190.0	293,500*
	170	51.6	186.1	271,300*
	175	49.9	181.9	250,300*
	180	48.2	177.4	230,400*
	185	46.5	172.7	211,400*
	190	44.7	167.7	193,300*
	195	42.8	162.3	175,900*
	200	40.9	156.6	159,100*
	205	38.8	150.5	142,900*
	210	36.7	143.9	127,100*
250	215	34.5	136.7	111,700*
	70	81.0	257.9	951,900*
	75	79.8	257.0	939,700*
	80	78.6	256.0	927,200*
	85	77.4	254.9	914,400*
	90	76.3	253.7	901,700*
250	95	75.1	252.3	831,600*
	100	73.9	250.9	764,300*
	105	72.7	249.3	704,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	110	71.5	247.7	652,000*
	115	70.3	245.9	604,500*
	120	69.0	244.0	561,600*
	125	67.8	241.9	522,500*
	130	66.6	239.8	486,700*
	135	65.3	237.5	453,800*
	140	64.0	235.0	423,300*
	145	62.7	232.4	395,100*
	150	61.4	229.7	368,800*
	155	60.1	226.9	344,200*
	160	58.8	223.8	321,200*
	165	57.4	220.6	299,500*
	170	56.0	217.3	279,000*
	175	54.6	213.7	259,600*
	180	53.2	210.0	241,200*
	185	51.7	206.1	223,700*
275	190	50.2	201.9	206,900*
	195	48.7	197.6	190,900*
	200	47.2	193.0	175,600*
	205	45.6	188.1	160,900*
	210	43.9	183.0	146,700*
	215	42.2	177.5	132,900*
	220	40.5	171.7	119,600*
	225	38.6	165.5	106,600*
	75	80.7	282.4	804,300*
	80	79.7	281.5	794,600*
	85	78.6	280.5	778,500*
	90	77.5	279.4	759,500*
	95	76.5	278.2	740,500*
	100	75.4	276.9	718,000*
	105	74.3	275.5	663,800*
	110	73.2	274.0	615,600*
275	115	72.1	272.4	572,300*
	120	71.0	270.7	533,100*
	125	69.9	268.8	497,500*
	130	68.8	266.9	464,900*
	135	67.7	264.8	434,800*
	140	66.5	262.7	407,100*
	145	65.4	260.4	381,300*
	150	64.2	258.0	357,200*
	155	63.1	255.4	334,800*
	160	61.9	252.8	313,700*
	165	60.7	250.0	293,800*
	170	59.5	247.0	275,000*
	175	58.3	243.9	257,300*
	180	57.0	240.7	240,400*
	185	55.8	237.3	224,400*
	190	54.5	233.7	209,100*
275	195	53.2	230.0	194,500*
	200	51.9	226.1	180,500*
	205	50.5	222.0	167,100*
	210	49.1	217.7	154,100*
	215	47.7	213.2	141,700*
	220	46.3	208.4	129,600*
275	225	44.8	203.4	118,000*
	230	43.3	198.2	106,600*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

JIB NO. 49A-44 WITH HEAVY LIFT TOP

SET AT 20 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

200 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	80.7	159.0	1,447,600*
	60	78.7	158.0	1,447,600*
	65	76.8	156.9	1,447,600*
	70	74.8	155.5	1,447,600*
	75	72.8	154.0	1,277,800*
	80	70.8	152.2	1,118,400*
	85	68.7	150.3	986,500*
	90	66.6	148.1	875,400*
	95	64.5	145.7	780,500*
	100	62.4	143.1	698,300*
	105	60.2	140.3	626,300*
	110	57.9	137.1	562,600*
	115	55.6	133.7	505,700*
	120	53.2	130.0	454,500*
	125	50.8	126.0	408,100*
	130	48.2	121.5	365,600*
175	135	45.6	116.7	326,400*
	140	42.8	111.4	290,000*
	145	39.8	105.5	255,900*
	150	36.7	98.9	223,500*
	155	33.2	91.4	192,600*
	160	29.5	82.9	162,400*
	60	80.4	183.5	1,309,600*
	65	78.7	182.5	1,309,600*
	70	77.0	181.4	1,309,600*
	75	75.3	180.1	1,309,600*
	80	73.6	178.6	1,204,900*
	85	71.9	177.0	1,070,500*
	90	70.2	175.2	957,100*
	95	68.4	173.2	860,000*
	100	66.6	171.0	775,900*
200	105	64.8	168.7	702,200*
	110	63.0	166.1	637,000*
	115	61.1	163.4	578,900*
	120	59.2	160.4	526,700*
	125	57.2	157.2	479,500*
	130	55.3	153.7	436,400*
	135	53.2	150.0	397,000*
	140	51.1	146.0	360,700*
	145	49.0	141.7	327,000*
	150	46.7	137.0	295,600*
	155	44.4	132.0	266,200*
	160	42.0	126.5	238,500*
	165	39.4	120.5	212,200*
	170	36.7	113.9	187,000*
	175	33.8	106.6	162,700*
	180	30.6	98.4	139,000*
	185	27.2	89.0	115,500*
225	65	80.1	208.0	1,179,900*
	70	78.7	207.0	1,179,900*
	75	77.2	205.9	1,179,900*
	80	75.7	204.6	1,179,900*
	85	74.2	203.2	1,077,700*
	90	72.7	201.6	970,600*
	95	71.2	199.9	878,600*
	100	69.7	198.1	798,600*
	105	68.1	196.1	728,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	110	66.6	193.9	665,800*
	115	65.0	191.6	610,000*
	120	63.4	189.1	559,700*
	125	61.8	186.4	514,100*
	130	60.1	183.6	472,600*
	135	58.4	180.5	434,500*
	140	56.7	177.2	399,400*
	145	55.0	173.7	367,000*
	150	53.2	170.0	336,800*
	155	51.4	166.0	308,600*
	160	49.5	161.8	282,200*
	165	47.6	157.3	257,300*
	170	45.6	152.4	233,800*
	175	43.5	147.2	211,400*
	180	41.3	141.6	190,100*
	185	39.1	135.5	169,700*
225	190	36.7	128.9	150,000*
	195	34.2	121.7	130,800*
	200	31.5	113.7	112,000*
	70	79.9	232.5	1,058,800*
	75	78.6	231.5	1,058,800*
	80	77.3	230.4	1,058,800*
	85	76.0	229.2	1,040,600*
	90	74.7	227.8	942,900*
	95	73.4	226.3	858,700*
	100	72.0	224.7	785,200*
	105	70.7	222.9	720,300*
	110	69.3	221.0	662,700*
	115	68.0	219.0	611,000*
	120	66.6	216.8	564,300*
	125	65.2	214.5	521,800*
	130	63.7	212.1	483,100*
250	135	62.3	209.4	447,400*
	140	60.8	206.7	414,600*
	145	59.4	203.7	384,100*
	150	57.9	200.6	355,800*
	155	56.3	197.3	329,300*
	160	54.8	193.7	304,500*
	165	53.2	190.0	281,100*
	170	51.6	186.1	259,100*
	175	49.9	181.9	238,200*
	180	48.2	177.4	218,400*
	185	46.5	172.7	199,500*
	190	44.7	167.7	181,500*
	195	42.8	162.3	164,200*
	200	40.9	156.6	147,500*
	205	38.8	150.5	131,400*
	210	36.7	143.9	115,700*
	215	34.5	136.7	100,400*
275	70	81.0	257.9	938,200*
	75	79.8	257.0	926,000*
	80	78.6	256.0	913,600*
	85	77.4	254.9	900,900*
	90	76.3	253.7	888,300*
	95	75.1	252.3	816,800*
	100	73.9	250.9	749,900*
	105	72.7	249.3	690,800*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	110	71.5	247.7	638,200*
	115	70.3	245.9	591,000*
	120	69.0	244.0	548,300*
	125	67.8	241.9	509,400*
	130	66.6	239.8	473,800*
	135	65.3	237.5	441,100*
	140	64.0	235.0	410,800*
	145	62.7	232.4	382,800*
	150	61.4	229.7	356,600*
	155	60.1	226.9	332,200*
	160	58.8	223.8	309,200*
	165	57.4	220.6	287,600*
	170	56.0	217.3	267,300*
	175	54.6	213.7	248,000*
	180	53.2	210.0	229,700*
	185	51.7	206.1	212,200*
275	190	50.2	201.9	195,600*
	195	48.7	197.6	179,700*
	200	47.2	193.0	164,500*
	205	45.6	188.1	149,800*
	210	43.9	183.0	135,700*
	215	42.2	177.5	122,000*
	220	40.5	171.7	108,700*
	75	80.7	282.4	790,000*
	80	79.7	281.5	780,300*
	85	78.6	280.5	762,500*
	90	77.5	279.4	743,500*
	95	76.5	278.2	724,600*
	100	75.4	276.9	703,800*
	105	74.3	275.5	680,000*
	110	73.2	274.0	662,100*
	115	72.1	272.4	645,000*
300	120	71.0	270.7	620,100*
	125	69.9	268.8	596,200*
	130	68.8	266.9	573,300*
	135	67.7	264.8	551,400*
	140	66.5	262.7	530,500*
	145	65.4	260.4	510,600*
	150	64.2	258.0	491,700*
	155	63.1	255.4	473,800*
	160	61.9	252.8	456,900*
	165	60.7	250.0	441,000*
	170	59.5	247.0	426,100*
	175	58.3	243.9	412,200*
	180	57.0	240.7	399,300*
	185	55.8	237.3	387,400*
	190	54.5	233.7	376,500*
	195	53.2	230.0	366,600*
325	200	51.9	226.1	357,700*
	205	50.5	222.0	349,800*
	210	49.1	217.7	342,900*
	215	47.7	213.2	337,000*
	220	46.3	208.4	332,100*
	225	44.8	203.4	328,200*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

JIB NO. 49A-44 WITH HEAVY LIFT TOP

SET AT 20 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

220 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	80.7	159.0	1,407,000*
	60	78.7	158.0	1,407,000*
	65	76.8	156.9	1,407,000*
	70	74.8	155.5	1,407,000*
	75	72.8	154.0	1,252,300*
	80	70.8	152.2	1,094,200*
	85	68.7	150.3	963,400*
	90	66.6	148.1	853,200*
	95	64.5	145.7	759,100*
	100	62.4	143.1	677,600*
	105	60.2	140.3	606,200*
	110	57.9	137.1	543,100*
	115	55.6	133.7	486,800*
	120	53.2	130.0	436,100*
	125	50.8	126.0	390,000*
	130	48.2	121.5	347,900*
175	135	45.6	116.7	309,100*
	140	42.8	111.4	273,100*
	145	39.8	105.5	239,300*
	150	36.7	98.9	207,400*
	155	33.2	91.4	176,700*
	160	29.5	82.9	146,900*
	60	80.4	183.5	1,274,800*
	65	78.7	182.5	1,274,400*
	70	77.0	181.4	1,274,200*
	75	75.3	180.1	1,274,100*
	80	73.6	178.6	1,182,000*
	85	71.9	177.0	1,048,600*
	90	70.2	175.2	936,000*
	95	68.4	173.2	839,700*
	100	66.6	171.0	756,300*
200	105	64.8	168.7	683,200*
	110	63.0	166.1	618,600*
	115	61.1	163.4	560,900*
	120	59.2	160.4	509,200*
	125	57.2	157.2	462,300*
	130	55.3	153.7	419,600*
	135	53.2	150.0	380,600*
	140	51.1	146.0	344,600*
	145	49.0	141.7	311,200*
	150	46.7	137.0	280,100*
	155	44.4	132.0	251,000*
	160	42.0	126.5	223,500*
	165	39.4	120.5	197,400*
	170	36.7	113.9	172,500*
	175	33.8	106.6	148,500*
	180	30.6	98.4	125,000*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	110	66.6	193.9	647,800*
	115	65.0	191.6	592,500*
	120	63.4	189.1	542,700*
	125	61.8	186.4	497,500*
	130	60.1	183.6	456,300*
	135	58.4	180.5	418,600*
	140	56.7	177.2	383,800*
	145	55.0	173.7	351,700*
	150	53.2	170.0	321,800*
	155	51.4	166.0	293,800*
	160	49.5	161.8	267,600*
	165	47.6	157.3	243,000*
	170	45.6	152.4	219,700*
	175	43.5	147.2	197,600*
	180	41.3	141.6	176,500*
	185	39.1	135.5	156,200*
225	190	36.7	128.9	136,700*
	195	34.2	121.7	117,800*
	70	79.9	232.5	1,030,200*
	75	78.6	231.5	1,030,200*
	80	77.3	230.4	1,030,200*
	85	76.0	229.2	1,019,800*
	90	74.7	227.8	922,900*
	95	73.4	226.3	839,500*
	100	72.0	224.7	766,700*
	105	70.7	222.9	702,500*
	110	69.3	221.0	645,300*
	115	68.0	219.0	594,100*
	120	66.6	216.8	547,800*
	125	65.2	214.5	505,800*
	130	63.7	212.1	467,300*
	135	62.3	209.4	432,100*
250	140	60.8	206.7	399,500*
	145	59.4	203.7	369,300*
	150	57.9	200.6	341,200*
	155	56.3	197.3	315,000*
	160	54.8	193.7	290,400*
	165	53.2	190.0	267,300*
	170	51.6	186.1	245,400*
	175	49.9	181.9	224,800*
	180	48.2	177.4	205,200*
	185	46.5	172.7	186,500*
	190	44.7	167.7	168,600*
	195	42.8	162.3	151,400*
	200	40.9	156.6	134,900*
	205	38.8	150.5	119,000*
	210	36.7	143.9	103,500*
250	70	81.0	257.9	918,900*
	75	79.8	257.0	909,400*
	80	78.6	256.0	897,100*
	85	77.4	254.9	884,800*
	90	76.3	253.7	872,100*
	95	75.1	252.3	798,200*
	100	73.9	250.9	732,000*
	105	72.7	249.3	673,500*
	110	71.5	247.7	621,400*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	115	70.3	245.9	574,700*
	120	69.0	244.0	532,400*
	125	67.8	241.9	493,900*
	130	66.6	239.8	458,600*
	135	65.3	237.5	426,200*
	140	64.0	235.0	396,200*
	145	62.7	232.4	368,400*
	150	61.4	229.7	342,500*
	155	60.1	226.9	318,300*
	160	58.8	223.8	295,600*
	165	57.4	220.6	274,200*
	170	56.0	217.3	254,000*
	175	54.6	213.7	234,900*
	180	53.2	210.0	216,800*
	185	51.7	206.1	199,500*
	190	50.2	201.9	183,100*
275	195	48.7	197.6	167,300*
	200	47.2	193.0	152,200*
	205	45.6	188.1	137,700*
	210	43.9	183.0	123,700*
	215	42.2	177.5	110,200*
	75	80.7	282.4	772,100*
	80	79.7	281.5	760,600*
	85	78.6	280.5	741,800*
	90	77.5	279.4	723,000*
	95	76.5	278.2	704,200*
	100	75.4	276.9	685,600*
	105	74.3	275.5	632,900*
	110	73.2	274.0	585,500*
	115	72.1	272.4	542,900*
	120	71.0	270.7	504,400*
	125	69.9	268.8	469,400*
275	130	68.8	266.9	437,300*
	135	67.7	264.8	407,800*
	140	66.5	262.7	380,500*
	145	65.4	260.4	355,100*
	150	64.2	258.0	331,500*
	155	63.1	255.4	309,400*
	160	61.9	252.8	288,600*
	165	60.7	250.0	269,100*
	170	59.5	247.0	250,700*
	175	58.3	243.9	233,200*
	180	57.0	240.7	216,600*
	185	55.8	237.3	200,800*
	190	54.5	233.7	185,800*
	195	53.2	230.0	171,400*
	200	51.9	226.1	157,600*
	205	50.5	222.0	144,400*
275	210	49.1	217.7	131,700*
	215	47.7	213.2	119,400*
	220	46.3	208.4	107,600*

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

JIB NO. 49A-44 WITH HEAVY LIFT TOP

SET AT 20 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,577,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

240 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
150	55	80.7	159.0	1,380,500*
	60	78.7	158.0	1,378,800*
	65	76.8	156.9	1,377,300*
	70	74.8	155.5	1,375,800*
	75	72.8	154.0	1,235,600*
	80	70.8	152.2	1,078,100*
	85	68.7	150.3	947,700*
	90	66.6	148.1	838,000*
	95	64.5	145.7	744,200*
	100	62.4	143.1	663,000*
	105	60.2	140.3	591,900*
	110	57.9	137.1	529,100*
	115	55.6	133.7	472,900*
	120	53.2	130.0	422,400*
	125	50.8	126.0	376,600*
	130	48.2	121.5	334,700*
	135	45.6	116.7	296,000*
	140	42.8	111.4	260,100*
	145	39.8	105.5	226,500*
	150	36.7	98.9	194,700*
	155	33.2	91.4	164,200*
	160	29.5	82.9	134,600*
175	60	80.4	183.5	1,250,800*
	65	78.7	182.5	1,249,200*
	70	77.0	181.4	1,247,800*
	75	75.3	180.1	1,246,500*
	80	73.6	178.6	1,166,700*
	85	71.9	177.0	1,033,800*
	90	70.2	175.2	921,700*
	95	68.4	173.2	825,700*
	100	66.6	171.0	742,600*
	105	64.8	168.7	669,800*
	110	63.0	166.1	605,400*
	115	61.1	163.4	548,000*
	120	59.2	160.4	496,400*
	125	57.2	157.2	449,800*
	130	55.3	153.7	407,300*
	135	53.2	150.0	368,300*
	140	51.1	146.0	332,500*
	145	49.0	141.7	299,300*
	150	46.7	137.0	268,300*
	155	44.4	132.0	239,300*
	160	42.0	126.5	211,900*
	165	39.4	120.5	186,000*
	170	36.7	113.9	161,200*
	175	33.8	106.6	137,300*
	180	30.6	98.4	113,900*
200	65	80.1	208.0	1,126,500*
	70	78.7	207.0	1,125,800*
	75	77.2	205.9	1,125,300*
	80	75.7	204.6	1,125,000*
	85	74.2	203.2	1,042,100*
	90	72.7	201.6	936,400*
	95	71.2	199.9	845,600*
	100	69.7	198.1	766,500*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
200	105	68.1	196.1	697,100*
	110	66.6	193.9	635,400*
	115	65.0	191.6	580,300*
	120	63.4	189.1	530,700*
	125	61.8	186.4	485,700*
	130	60.1	183.6	444,700*
	135	58.4	180.5	407,100*
	140	56.7	177.2	372,500*
	145	55.0	173.7	340,400*
	150	53.2	170.0	310,700*
	155	51.4	166.0	282,800*
	160	49.5	161.8	256,800*
	165	47.6	157.3	232,200*
	170	45.6	152.4	209,000*
	175	43.5	147.2	187,000*
	180	41.3	141.6	166,000*
	185	39.1	135.5	145,900*
	190	36.7	128.9	126,400*
	195	34.2	121.7	107,600*
225	70	79.9	232.5	1,011,200*
	75	78.6	231.5	1,011,200*
	80	77.3	230.4	1,011,200*
	85	76.0	229.2	1,006,800*
	90	74.7	227.8	910,300*
	95	73.4	226.3	827,200*
	100	72.0	224.7	754,700*
	105	70.7	222.9	690,700*
	110	69.3	221.0	633,800*
	115	68.0	219.0	582,700*
	120	66.6	216.8	536,600*
	125	65.2	214.5	494,700*
	130	63.7	212.1	456,500*
	135	62.3	209.4	421,300*
	140	60.8	206.7	388,900*
	145	59.4	203.7	358,800*
	150	57.9	200.6	330,800*
	155	56.3	197.3	304,700*
	160	54.8	193.7	280,200*
	165	53.2	190.0	257,100*
	170	51.6	186.1	235,400*
	175	49.9	181.9	214,800*
	180	48.2	177.4	195,300*
	185	46.5	172.7	176,700*
	190	44.7	167.7	158,900*
	195	42.8	162.3	141,800*
	200	40.9	156.6	125,400*
	205	38.8	150.5	109,500*
250	70	81.0	257.9	901,300*
	75	79.8	257.0	896,900*
	80	78.6	256.0	884,700*
	85	77.4	254.9	872,300*
	90	76.3	253.7	858,200*
	95	75.1	252.3	786,200*
	100	73.9	250.9	720,300*
	105	72.7	249.3	662,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
250	110	71.5	247.7	610,300*
	115	70.3	245.9	563,700*
	120	69.0	244.0	521,600*
	125	67.8	241.9	483,200*
	130	66.6	239.8	448,200*
	135	65.3	237.5	415,900*
	140	64.0	235.0	386,000*
	145	62.7	232.4	358,400*
	150	61.4	229.7	332,600*
	155	60.1	226.9	308,500*
	160	58.8	223.8	285,800*
	165	57.4	220.6	264,500*
	170	56.0	217.3	244,400*
	175	54.6	213.7	225,400*
	180	53.2	210.0	207,400*
	185	51.7	206.1	190,200*
	190	50.2	201.9	173,800*
	195	48.7	197.6	158,100*
	200	47.2	193.0	143,100*
	205	45.6	188.1	128,600*
	210	43.9	183.0	114,700*
	215	42.2	177.5	101,200*
275	75	80.7	282.4	759,100*
	80	79.7	281.5	746,300*
	85	78.6	280.5	727,500*
	90	77.5	279.4	708,700*
	95	76.5	278.2	690,000*
	100	75.4	276.9	671,400*
	105	74.3	275.5	621,600*
	110	73.2	274.0	574,500*
	115	72.1	272.4	532,200*
	120	71.0	270.7	493,900*
	125	69.9	268.8	459,000*
	130	68.8	266.9	427,100*
	135	67.7	264.8	397,700*
	140	66.5	262.7	370,600*
	145	65.4	260.4	345,300*
	150	64.2	258.0	321,800*
	155	63.1	255.4	299,800*
	160	61.9	252.8	279,200*
	165	60.7	250.0	259,700*
	170	59.5	247.0	241,400*
	175	58.3	243.9	224,000*
	180	57.0	240.7	207,500*
	185	55.8	237.3	191,800*
	190	54.5	233.7	176,800*
	195	53.2	230.0	162,500*
	200	51.9	226.1	148,800*
	205	50.5	222.0	135,600*
	210	49.1	217.7	123,000*
	215	47.7	213.2	110,800*