

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE 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  
1,049,600 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 1,049,600 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-B FOR JIB CAPACITIES.

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360 DEGREE RATING**

### 100 FT. JIB

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>150</b>	55	80.7	159.0	1,616,700*
	60	78.7	158.0	1,616,700*
	65	76.8	156.9	1,451,200
	70	74.8	155.5	1,262,600
	75	72.8	154.0	1,113,600
	80	70.8	152.2	992,900
	85	68.7	150.3	893,100
	90	66.6	148.1	809,200
	95	64.5	145.7	737,800
	100	62.4	143.1	676,100
	105	60.2	140.3	618,900*
	110	57.9	137.1	568,100*
	115	55.6	133.7	523,200*
	120	53.2	130.0	483,100*
	125	50.8	126.0	447,200*
	130	48.2	121.5	414,700*
135	45.6	116.7	385,300*	
140	42.8	111.4	358,600*	
145	39.8	105.5	334,100*	
150	36.7	98.9	310,400*	
155	33.2	91.4	278,300*	
160	29.5	82.9	247,000*	
<b>175</b>	60	80.4	183.5	1,462,500*
	65	78.7	182.5	1,452,700
	70	77.0	181.4	1,263,800
	75	75.3	180.1	1,114,400
	80	73.6	178.6	993,500
	85	71.9	177.0	893,500
	90	70.2	175.2	809,500
	95	68.4	173.2	737,900
	100	66.6	171.0	676,100
	105	64.8	168.7	620,300*
	110	63.0	166.1	569,200*
	115	61.1	163.4	524,000*
	120	59.2	160.4	483,700*
	125	57.2	157.2	447,600*
	130	55.3	153.7	415,000*
	135	53.2	150.0	385,500*
140	51.1	146.0	358,600*	
145	49.0	141.7	334,000*	
150	46.7	137.0	311,400*	
155	44.4	132.0	290,500*	
160	42.0	126.5	271,300*	
165	39.4	120.5	253,400*	
170	36.7	113.9	236,800*	
175	33.8	106.6	221,300*	
180	30.6	98.4	206,800*	
<b>200</b>	65	80.1	208.0	1,317,600*
	70	78.7	207.0	1,261,000
	75	77.2	205.9	1,111,800
	80	75.7	204.6	990,900
	85	74.2	203.2	891,000
	90	72.7	201.6	807,000
	95	71.2	199.9	735,400
	100	69.7	198.1	673,700
	105	68.1	196.1	618,500*
	110	66.6	193.9	567,400*
	115	65.0	191.6	522,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>200</b>	120	63.4	189.1	481,700*
	125	61.8	186.4	445,500*
	130	60.1	183.6	412,900*
	135	58.4	180.5	383,300*
	140	56.7	177.2	356,400*
	145	55.0	173.7	331,700*
	150	53.2	170.0	309,100*
	155	51.4	166.0	288,200*
	160	49.5	161.8	269,000*
	165	47.6	157.3	251,100*
	170	45.6	152.4	234,500*
	175	43.5	147.2	219,000*
	180	41.3	141.6	204,500*
	185	39.1	135.5	190,900*
	190	36.7	128.9	178,200*
	195	34.2	121.7	166,200*
200	31.5	113.7	154,900*	
205	28.6	104.8	144,200*	
<b>225</b>	70	79.9	232.5	1,156,700*
	75	78.6	231.5	1,111,500
	80	77.3	230.4	990,500
	85	76.0	229.2	890,400
	90	74.7	227.8	806,200
	95	73.4	226.3	734,500
	100	72.0	224.7	672,700
	105	70.7	222.9	618,800*
	110	69.3	221.0	567,300*
	115	68.0	219.0	521,800*
	120	66.6	216.8	481,200*
	125	65.2	214.5	444,800*
	130	63.7	212.1	412,000*
	135	62.3	209.4	382,300*
	140	60.8	206.7	355,200*
	145	59.4	203.7	330,400*
150	57.9	200.6	307,700*	
155	56.3	197.3	286,700*	
160	54.8	193.7	267,300*	
165	53.2	190.0	249,400*	
170	51.6	186.1	232,700*	
175	49.9	181.9	217,100*	
180	48.2	177.4	202,500*	
185	46.5	172.7	188,900*	
190	44.7	167.7	176,100*	
195	42.8	162.3	164,100*	
200	40.9	156.6	152,700*	
205	38.8	150.5	142,000*	
210	36.7	143.9	131,900*	
215	34.5	136.7	122,300*	
220	32.1	128.9	113,100*	
225	29.6	120.3	104,500*	
<b>250</b>	70	81.0	257.9	1,011,900*
	75	79.8	257.0	1,001,700*
	80	78.6	256.0	989,000
	85	77.4	254.9	888,800
	90	76.3	253.7	804,500
	95	75.1	252.3	732,700
	100	73.9	250.9	670,700
	105	72.7	249.3	616,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>250</b>	110	71.5	247.7	566,100*
	115	70.3	245.9	520,300*
	120	69.0	244.0	479,500*
	125	67.8	241.9	443,000*
	130	66.6	239.8	410,000*
	135	65.3	237.5	380,100*
	140	64.0	235.0	352,800*
	145	62.7	232.4	327,900*
	150	61.4	229.7	305,100*
	155	60.1	226.9	284,000*
	160	58.8	223.8	264,500*
	165	57.4	220.6	246,500*
	170	56.0	217.3	229,700*
	175	54.6	213.7	214,000*
	180	53.2	210.0	199,400*
	185	51.7	206.1	185,700*
190	50.2	201.9	172,900*	
195	48.7	197.6	160,800*	
200	47.2	193.0	149,400*	
205	45.6	188.1	138,600*	
210	43.9	183.0	128,400*	
215	42.2	177.5	118,800*	
220	40.5	171.7	109,700*	
225	38.6	165.5	101,000*	
<b>275</b>	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	802,000
	95	76.5	278.2	730,100
	100	75.4	276.9	668,200
	105	74.3	275.5	614,200
	110	73.2	274.0	564,000*
	115	72.1	272.4	518,100*
	120	71.0	270.7	477,300*
	125	69.9	268.8	440,600*
	130	68.8	266.9	407,500*
	135	67.7	264.8	377,500*
	140	66.5	262.7	350,200*
	145	65.4	260.4	325,300*
	150	64.2	258.0	302,400*
155	63.1	255.4	281,300*	
160	61.9	252.8	261,700*	
165	60.7	250.0	243,600*	
170	59.5	247.0	226,800*	
175	58.3	243.9	211,100*	
180	57.0	240.7	196,500*	
185	55.8	237.3	182,800*	
190	54.5	233.7	169,900*	
195	53.2	230.0	157,800*	
200	51.9	226.1	146,300*	
205	50.5	222.0	135,600*	
210	49.1	217.7	125,400*	
215	47.7	213.2	115,700*	
220	46.3	208.4	106,600*	



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MEETS  
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**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  
 1,049,600 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
<b>300</b>	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	665,600
	105	75.7	301.4	611,500
	110	74.7	300.1	562,000*
	115	73.7	298.6	515,900*
	120	72.7	297.0	474,800*
	125	71.7	295.4	438,000*
	130	70.6	293.6	404,700*
	135	69.6	291.8	374,600*
	140	68.6	289.8	347,200*
	145	67.6	287.7	322,100*
	150	66.5	285.6	299,100*
	155	65.5	283.3	277,900*
	160	64.4	280.9	258,300*
	165	63.4	278.4	240,100*
	170	62.3	275.8	223,200*
	175	61.2	273.0	207,400*
	180	60.1	270.2	192,700*
	185	59.0	267.2	178,900*
190	57.8	264.0	166,000*	
195	56.7	260.7	153,800*	
200	55.5	257.3	142,400*	
205	54.4	253.7	131,500*	
210	53.2	250.0	121,300*	
215	52.0	246.1	111,600*	
220	50.7	242.0	102,400*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>325</b>	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	560,500*
	115	75.0	324.6	514,100*
	120	74.0	323.2	472,800*
	125	73.1	321.7	435,800*
	130	72.2	320.1	402,400*
	135	71.3	318.4	372,200*
	140	70.3	316.6	344,600*
	145	69.4	314.7	319,400*
	150	68.4	312.7	296,300*
	155	67.5	310.7	275,000*
	160	66.5	308.5	255,300*
	165	65.6	306.2	237,000*
	170	64.6	303.8	220,100*
	175	63.6	301.4	204,300*
	180	62.6	298.8	189,500*
	185	61.6	296.1	175,700*
	190	60.6	293.3	162,700*
195	59.6	290.3	150,500*	
200	58.5	287.3	139,000*	
205	57.5	284.1	128,100*	
210	56.4	280.8	117,800*	
215	55.4	277.3	108,100*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>350</b>	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	431,500*
	130	73.5	346.3	398,000*
	135	72.6	344.7	367,700*
	140	71.8	343.1	340,000*
	145	70.9	341.4	314,800*
	150	70.0	339.5	291,600*
	155	69.2	337.6	270,300*
	160	68.3	335.7	250,500*
	165	67.4	333.6	232,300*
	170	66.5	331.4	215,300*
	175	65.6	329.1	199,400*
	180	64.7	326.8	184,600*
	185	63.8	324.3	170,700*
	190	62.9	321.8	157,700*
	195	62.0	319.1	145,500*
200	61.0	316.3	134,000*	
205	60.1	313.5	123,100*	
210	59.1	310.5	112,800*	
215	58.2	307.4	103,100*	

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## LIFT CRANE BOOM CAPACITIES WITH JIB ATTACHED

MEETS  
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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  
1,049,600 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
<b>150</b>	55	80.7	159.0	1,587,800*
	60	78.7	158.0	1,587,800*
	65	76.8	156.9	1,433,700
	70	74.8	155.5	1,245,800
	75	72.8	154.0	1,097,400
	80	70.8	152.2	977,200
	85	68.7	150.3	877,800
	90	66.6	148.1	794,300
	95	64.5	145.7	723,100
	100	62.4	143.1	657,500*
	105	60.2	140.3	599,900*
	110	57.9	137.1	549,400*
115	55.6	133.7	504,700*	
120	53.2	130.0	464,900*	
125	50.8	126.0	429,200*	
130	48.2	121.5	397,000*	
135	45.6	116.7	367,800*	
140	42.8	111.4	341,200*	
145	39.8	105.5	316,900*	
150	36.7	98.9	293,400*	
155	33.2	91.4	261,500*	
160	29.5	82.9	230,300*	
<b>175</b>	60	80.4	183.5	1,433,300*
	65	78.7	182.5	1,433,300*
	70	77.0	181.4	1,247,500
	75	75.3	180.1	1,098,800
	80	73.6	178.6	978,400
	85	71.9	177.0	878,800
	90	70.2	175.2	795,200
	95	68.4	173.2	723,900
	100	66.6	171.0	660,000*
	105	64.8	168.7	602,100*
	110	63.0	166.1	551,300*
	115	61.1	163.4	506,400*
120	59.2	160.4	466,400*	
125	57.2	157.2	430,500*	
130	55.3	153.7	398,100*	
135	53.2	150.0	368,700*	
140	51.1	146.0	342,000*	
145	49.0	141.7	317,600*	
150	46.7	137.0	295,100*	
155	44.4	132.0	274,400*	
160	42.0	126.5	255,300*	
165	39.4	120.5	237,600*	
170	36.7	113.9	221,100*	
175	33.8	106.6	205,800*	
180	30.6	98.4	191,400*	
<b>200</b>	65	80.1	208.0	1,291,500*
	70	78.7	207.0	1,245,300
	75	77.2	205.9	1,096,700
	80	75.7	204.6	976,300
	85	74.2	203.2	876,800
	90	72.7	201.6	793,200
95	71.2	199.9	721,900	
100	69.7	198.1	659,000*	
105	68.1	196.1	601,100*	
110	66.6	193.9	550,200*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>200</b>	115	65.0	191.6	505,200*
	120	63.4	189.1	465,100*
	125	61.8	186.4	429,100*
	130	60.1	183.6	396,600*
	135	58.4	180.5	367,200*
	140	56.7	177.2	340,500*
	145	55.0	173.7	316,000*
	150	53.2	170.0	293,500*
	155	51.4	166.0	272,800*
	160	49.5	161.8	253,600*
	165	47.6	157.3	235,900*
	170	45.6	152.4	219,400*
175	43.5	147.2	204,000*	
180	41.3	141.6	189,600*	
185	39.1	135.5	176,200*	
190	36.7	128.9	163,500*	
195	34.2	121.7	151,700*	
200	31.5	113.7	140,500*	
205	28.6	104.8	129,900*	
<b>225</b>	70	79.9	232.5	1,165,000*
	75	78.6	231.5	1,096,900
	80	77.3	230.4	976,300
	85	76.0	229.2	876,700
	90	74.7	227.8	792,900
	95	73.4	226.3	721,500
	100	72.0	224.7	659,900
	105	70.7	222.9	601,900*
	110	69.3	221.0	550,800*
	115	68.0	219.0	505,500*
	120	66.6	216.8	465,200*
	125	65.2	214.5	429,000*
130	63.7	212.1	396,400*	
135	62.3	209.4	366,800*	
140	60.8	206.7	339,800*	
145	59.4	203.7	315,200*	
150	57.9	200.6	292,600*	
155	56.3	197.3	271,800*	
160	54.8	193.7	252,500*	
165	53.2	190.0	234,700*	
170	51.6	186.1	218,100*	
175	49.9	181.9	202,600*	
180	48.2	177.4	188,200*	
185	46.5	172.7	174,600*	
190	44.7	167.7	161,900*	
195	42.8	162.3	150,000*	
200	40.9	156.6	138,700*	
205	38.8	150.5	128,100*	
210	36.7	143.9	118,000*	
215	34.5	136.7	108,500*	
<b>250</b>	70	81.0	257.9	1,004,700*
	75	79.8	257.0	992,000*
	80	78.6	256.0	975,300
	85	77.4	254.9	875,500
	90	76.3	253.7	791,600
	95	75.1	252.3	720,100
100	73.9	250.9	658,400	
105	72.7	249.3	601,500*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>250</b>	110	71.5	247.7	550,100*
	115	70.3	245.9	504,600*
	120	69.0	244.0	464,000*
	125	67.8	241.9	427,600*
	130	66.6	239.8	394,800*
	135	65.3	237.5	365,100*
	140	64.0	235.0	338,000*
	145	62.7	232.4	313,200*
	150	61.4	229.7	290,500*
	155	60.1	226.9	269,600*
	160	58.8	223.8	250,200*
	165	57.4	220.6	232,300*
170	56.0	217.3	215,600*	
175	54.6	213.7	200,000*	
180	53.2	210.0	185,500*	
185	51.7	206.1	171,900*	
190	50.2	201.9	159,100*	
195	48.7	197.6	147,100*	
200	47.2	193.0	135,800*	
205	45.6	188.1	125,100*	
210	43.9	183.0	115,000*	
215	42.2	177.5	105,400*	
<b>275</b>	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	789,200
	95	76.5	278.2	717,600
	100	75.4	276.9	656,000
	105	74.3	275.5	599,800*
	110	73.2	274.0	548,200*
	115	72.1	272.4	502,600*
	120	71.0	270.7	461,900*
	125	69.9	268.8	425,500*
	130	68.8	266.9	392,600*
135	67.7	264.8	362,800*	
140	66.5	262.7	335,700*	
145	65.4	260.4	310,800*	
150	64.2	258.0	288,100*	
155	63.1	255.4	267,100*	
160	61.9	252.8	247,700*	
165	60.7	250.0	229,700*	
170	59.5	247.0	213,000*	
175	58.3	243.9	197,400*	
180	57.0	240.7	182,800*	
185	55.8	237.3	169,200*	
190	54.5	233.7	156,400*	
195	53.2	230.0	144,400*	
200	51.9	226.1	133,000*	
205	50.5	222.0	122,300*	
210	49.1	217.7	112,200*	
215	47.7	213.2	102,600*	

# 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**  
**1,049,600 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
<b>300</b>	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	653,700
	105	75.7	301.4	598,500*
	110	74.7	300.1	546,700*
	115	73.7	298.6	500,800*
	120	72.7	297.0	459,900*
	125	71.7	295.4	423,300*
	130	70.6	293.6	390,200*
	135	69.6	291.8	360,300*
	140	68.6	289.8	333,000*
	145	67.6	287.7	308,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>300</b>	150	66.5	285.6	285,200*
	155	65.5	283.3	264,100*
	160	64.4	280.9	244,600*
	165	63.4	278.4	226,500*
	170	62.3	275.8	209,700*
	175	61.2	273.0	194,100*
	180	60.1	270.2	179,400*
	185	59.0	267.2	165,700*
	190	57.8	264.0	152,900*
	195	56.7	260.7	140,800*
	200	55.5	257.3	129,400*
	205	54.4	253.7	118,600*
	210	53.2	250.0	108,500*

# 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  
1,049,600 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
<b>150</b>	55	80.7	159.0	1,550,200*
	60	78.7	158.0	1,550,200*
	65	76.8	156.9	1,413,100
	70	74.8	155.5	1,226,300
	75	72.8	154.0	1,078,700
	80	70.8	152.2	959,200
	85	68.7	150.3	860,400
	90	66.6	148.1	777,300
	95	64.5	145.7	701,400*
	100	62.4	143.1	635,800*
<b>150</b>	105	60.2	140.3	578,700*
	110	57.9	137.1	528,600*
	115	55.6	133.7	484,300*
	120	53.2	130.0	444,800*
	125	50.8	126.0	409,400*
	130	48.2	121.5	377,500*
	135	45.6	116.7	348,600*
	140	42.8	111.4	322,300*
	145	39.8	105.5	298,200*
	150	36.7	98.9	275,100*
<b>175</b>	155	33.2	91.4	243,400*
	160	29.5	82.9	212,500*
	60	80.4	183.5	1,402,500*
	65	78.7	182.5	1,402,500*
	70	77.0	181.4	1,228,600
	75	75.3	180.1	1,080,700
	80	73.6	178.6	961,000
	85	71.9	177.0	862,000
	90	70.2	175.2	778,900
	95	68.4	173.2	705,100*
<b>175</b>	100	66.6	171.0	639,200*
	105	64.8	168.7	581,800*
	110	63.0	166.1	531,400*
	115	61.1	163.4	486,900*
	120	59.2	160.4	447,200*
	125	57.2	157.2	411,600*
	130	55.3	153.7	379,500*
	135	53.2	150.0	350,400*
	140	51.1	146.0	323,900*
	145	49.0	141.7	299,700*
<b>200</b>	150	46.7	137.0	277,500*
	155	44.4	132.0	257,000*
	160	42.0	126.5	238,100*
	165	39.4	120.5	220,600*
	170	36.7	113.9	204,300*
	175	33.8	106.6	189,200*
	180	30.6	98.4	175,000*
	65	80.1	208.0	1,263,900*
	70	78.7	207.0	1,226,800
	75	77.2	205.9	1,079,100
80	75.7	204.6	959,500	
85	74.2	203.2	860,600	
<b>200</b>	90	72.7	201.6	777,500
	95	71.2	199.9	705,400*
	100	69.7	198.1	639,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>200</b>	105	68.1	196.1	581,700*
	110	66.6	193.9	531,200*
	115	65.0	191.6	486,500*
	120	63.4	189.1	446,700*
	125	61.8	186.4	411,000*
	130	60.1	183.6	378,800*
	135	58.4	180.5	349,700*
	140	56.7	177.2	323,100*
	145	55.0	173.7	298,800*
	150	53.2	170.0	276,500*
<b>200</b>	155	51.4	166.0	256,000*
	160	49.5	161.8	237,000*
	165	47.6	157.3	219,500*
	170	45.6	152.4	203,100*
	175	43.5	147.2	187,900*
	180	41.3	141.6	173,700*
	185	39.1	135.5	160,400*
	190	36.7	128.9	147,900*
	195	34.2	121.7	136,200*
	200	31.5	113.7	125,100*
<b>225</b>	205	28.6	104.8	114,700*
	70	79.9	232.5	1,135,200*
	75	78.6	231.5	1,079,900
	80	77.3	230.4	960,000
	85	76.0	229.2	860,900
	90	74.7	227.8	777,700
	95	73.4	226.3	706,700
	100	72.0	224.7	640,800*
	105	70.7	222.9	583,000*
	110	69.3	221.0	532,200*
<b>225</b>	115	68.0	219.0	487,300*
	120	66.6	216.8	447,300*
	125	65.2	214.5	411,400*
	130	63.7	212.1	379,000*
	135	62.3	209.4	349,700*
	140	60.8	206.7	323,000*
	145	59.4	203.7	298,600*
	150	57.9	200.6	276,200*
	155	56.3	197.3	255,500*
	160	54.8	193.7	236,400*
<b>275</b>	165	53.2	190.0	218,700*
	170	51.6	186.1	202,300*
	175	49.9	181.9	187,000*
	180	48.2	177.4	172,700*
	185	46.5	172.7	159,300*
	190	44.7	167.7	146,700*
	195	42.8	162.3	134,900*
	200	40.9	156.6	123,700*
	205	38.8	150.5	113,200*
	210	36.7	143.9	103,300*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>250</b>	70	81.0	257.9	986,800*
	75	79.8	257.0	974,400*
	80	78.6	256.0	959,500
	85	77.4	254.9	860,200
	90	76.3	253.7	776,800
	95	75.1	252.3	705,700
	100	73.9	250.9	641,300*
	105	72.7	249.3	583,200*
	110	71.5	247.7	532,100*
	115	70.3	245.9	486,900*
<b>250</b>	120	69.0	244.0	446,700*
	125	67.8	241.9	410,600*
	130	66.6	239.8	378,000*
	135	65.3	237.5	348,500*
	140	64.0	235.0	321,700*
	145	62.7	232.4	297,100*
	150	61.4	229.7	274,500*
	155	60.1	226.9	253,800*
	160	58.8	223.8	234,600*
	165	57.4	220.6	216,800*
<b>275</b>	170	56.0	217.3	200,300*
	175	54.6	213.7	184,800*
	180	53.2	210.0	170,400*
	185	51.7	206.1	156,900*
	190	50.2	201.9	144,300*
	195	48.7	197.6	132,400*
	200	47.2	193.0	121,200*
	205	45.6	188.1	110,600*
	210	43.9	183.0	100,600*
	<b>275</b>	75	80.7	282.4
80		79.7	281.5	839,900*
85		78.6	280.5	829,400*
90		77.5	279.4	774,500
95		76.5	278.2	703,400
100		75.4	276.9	640,000*
105		74.3	275.5	581,600*
110		73.2	274.0	530,500*
115		72.1	272.4	485,200*
120		71.0	270.7	444,900*
<b>275</b>	125	69.9	268.8	408,700*
	130	68.8	266.9	376,100*
	135	67.7	264.8	346,500*
	140	66.5	262.7	319,600*
	145	65.4	260.4	295,000*
	150	64.2	258.0	272,400*
	155	63.1	255.4	251,600*
	160	61.9	252.8	232,300*
	165	60.7	250.0	214,500*
	170	59.5	247.0	197,900*
<b>275</b>	175	58.3	243.9	182,500*
	180	57.0	240.7	168,100*
	185	55.8	237.3	154,500*
	190	54.5	233.7	141,900*
	195	53.2	230.0	129,900*
	200	51.9	226.1	118,700*
	205	50.5	222.0	108,100*

# 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  
1,049,600 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
<b>300</b>	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	639,500*
	105	75.7	301.4	580,800*
	110	74.7	300.1	529,400*
	115	73.7	298.6	483,900*
	120	72.7	297.0	443,300*
	125	71.7	295.4	406,900*
	130	70.6	293.6	374,100*
	135	69.6	291.8	344,400*
140	68.6	289.8	317,300*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>300</b>	145	67.6	287.7	292,600*
	150	66.5	285.6	269,900*
	155	65.5	283.3	249,000*
	160	64.4	280.9	229,600*
	165	63.4	278.4	211,700*
	170	62.3	275.8	195,000*
	175	61.2	273.0	179,500*
	180	60.1	270.2	165,000*
	185	59.0	267.2	151,400*
	190	57.8	264.0	138,700*
	195	56.7	260.7	126,700*
	200	55.5	257.3	115,400*
205	54.4	253.7	104,700*	

# MANITOWOC ENGINEERING CO.

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## 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  
1,049,600 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
<b>150</b>	55	80.7	159.0	1,517,600*
	60	78.7	158.0	1,517,600*
	65	76.8	156.9	1,393,800
	70	74.8	155.5	1,208,000
	75	72.8	154.0	1,061,200
	80	70.8	152.2	942,300
	85	68.7	150.3	844,000
	90	66.6	148.1	756,400*
	95	64.5	145.7	680,700*
	100	62.4	143.1	615,600*
	105	60.2	140.3	558,900*
	110	57.9	137.1	509,200*
115	55.6	133.7	465,200*	
120	53.2	130.0	426,100*	
125	50.8	126.0	391,000*	
130	48.2	121.5	359,300*	
135	45.6	116.7	330,700*	
140	42.8	111.4	304,600*	
145	39.8	105.5	280,800*	
150	36.7	98.9	257,800*	
155	33.2	91.4	226,400*	
160	29.5	82.9	195,700*	
<b>175</b>	60	80.4	183.5	1,372,500*
	65	78.7	182.5	1,372,500*
	70	77.0	181.4	1,210,800
	75	75.3	180.1	1,063,800
	80	73.6	178.6	944,800
	85	71.9	177.0	846,400
	90	70.2	175.2	761,300*
	95	68.4	173.2	685,200*
	100	66.6	171.0	619,700*
	105	64.8	168.7	562,800*
	110	63.0	166.1	512,800*
	115	61.1	163.4	468,600*
120	59.2	160.4	429,200*	
125	57.2	157.2	393,900*	
130	55.3	153.7	362,100*	
135	53.2	150.0	333,200*	
140	51.1	146.0	307,000*	
145	49.0	141.7	283,000*	
150	46.7	137.0	261,000*	
155	44.4	132.0	240,700*	
160	42.0	126.5	222,000*	
165	39.4	120.5	204,700*	
170	36.7	113.9	188,600*	
175	33.8	106.6	173,600*	
180	30.6	98.4	159,700*	
<b>200</b>	65	80.1	208.0	1,236,800*
	70	78.7	207.0	1,209,700
	75	77.2	205.9	1,062,800
	80	75.7	204.6	943,800
	85	74.2	203.2	845,500
	90	72.7	201.6	762,500*
	95	71.2	199.9	686,200*
	100	69.7	198.1	620,500*
	105	68.1	196.1	563,400*
	110	66.6	193.9	513,300*
	115	65.0	191.6	469,000*
	120	63.4	189.1	429,500*
125	61.8	186.4	394,100*	
130	60.1	183.6	362,200*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>200</b>	135	58.4	180.5	333,200*
	140	56.7	177.2	306,900*
	145	55.0	173.7	282,800*
	150	53.2	170.0	260,700*
	155	51.4	166.0	240,400*
	160	49.5	161.8	221,600*
	165	47.6	157.3	204,200*
	170	45.6	152.4	188,000*
	175	43.5	147.2	172,900*
	180	41.3	141.6	158,900*
	185	39.1	135.5	145,700*
	190	36.7	128.9	133,400*
195	34.2	121.7	121,800*	
200	31.5	113.7	110,900*	
205	28.6	104.8	100,600*	
<b>225</b>	70	79.9	232.5	1,110,600*
	75	78.6	231.5	1,064,000
	80	77.3	230.4	944,800
	85	76.0	229.2	846,300
	90	74.7	227.8	763,500
	95	73.4	226.3	688,900*
	100	72.0	224.7	622,800*
	105	70.7	222.9	565,400*
	110	69.3	221.0	515,000*
	115	68.0	219.0	470,400*
	120	66.6	216.8	430,700*
	125	65.2	214.5	395,100*
130	63.7	212.1	363,000*	
135	62.3	209.4	333,900*	
140	60.8	206.7	307,400*	
145	59.4	203.7	283,200*	
150	57.9	200.6	260,900*	
155	56.3	197.3	240,500*	
160	54.8	193.7	221,500*	
165	53.2	190.0	204,000*	
170	51.6	186.1	187,700*	
175	49.9	181.9	172,500*	
180	48.2	177.4	158,400*	
185	46.5	172.7	145,100*	
190	44.7	167.7	132,600*	
195	42.8	162.3	120,900*	
200	40.9	156.6	109,900*	
<b>250</b>	70	81.0	257.9	971,500*
	75	79.8	257.0	959,100*
	80	78.6	256.0	944,800
	85	77.4	254.9	846,100
	90	76.3	253.7	763,100
	95	75.1	252.3	690,400*
	100	73.9	250.9	624,000*
	105	72.7	249.3	566,200*
	110	71.5	247.7	515,500*
	115	70.3	245.9	470,600*
	120	69.0	244.0	430,700*
	125	67.8	241.9	394,800*
130	66.6	239.8	362,500*	
135	65.3	237.5	333,300*	
140	64.0	235.0	306,600*	
145	62.7	232.4	282,200*	
150	61.4	229.7	259,900*	
155	60.1	226.9	239,300*	
160	58.8	223.8	220,200*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>250</b>	165	57.4	220.6	202,600*
	170	56.0	217.3	186,200*
	175	54.6	213.7	170,900*
	180	53.2	210.0	156,600*
	185	51.7	206.1	143,200*
	190	50.2	201.9	130,700*
195	48.7	197.6	118,900*	
200	47.2	193.0	107,800*	
<b>275</b>	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	761,000*
	95	76.5	278.2	689,400*
	100	75.4	276.9	622,800*
	105	74.3	275.5	564,900*
	110	73.2	274.0	514,100*
	115	72.1	272.4	469,200*
	120	71.0	270.7	429,100*
	125	69.9	268.8	393,200*
	130	68.8	266.9	360,900*
135	67.7	264.8	331,500*	
140	66.5	262.7	304,800*	
145	65.4	260.4	280,400*	
150	64.2	258.0	258,000*	
155	63.1	255.4	237,300*	
160	61.9	252.8	218,300*	
165	60.7	250.0	200,600*	
170	59.5	247.0	184,100*	
175	58.3	243.9	168,800*	
180	57.0	240.7	154,500*	
185	55.8	237.3	141,100*	
190	54.5	233.7	128,600*	
195	53.2	230.0	116,700*	
200	51.9	226.1	105,600*	
<b>300</b>	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	622,800*
	105	75.7	301.4	564,600*
	110	74.7	300.1	513,500*
	115	73.7	298.6	468,300*
	120	72.7	297.0	428,000*
	125	71.7	295.4	391,900*
	130	70.6	293.6	359,400*
	135	69.6	291.8	329,900*
140	68.6	289.8	303,000*	
145	67.6	287.7	278,500*	
150	66.5	285.6	255,900*	
155	65.5	283.3	235,200*	
160	64.4	280.9	216,000*	
165	63.4	278.4	198,200*	
170	62.3	275.8	181,600*	
175	61.2	273.0	166,200*	
180	60.1	270.2	151,800*	
185	59.0	267.2	138,400*	
190	57.8	264.0	125,700*	
195	56.7	260.7	113,800*	
200	55.5	257.3	102,600*	





# LIFTCRANE 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  
 1,049,600 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
<b>150</b>	55	80.7	159.0	1,477,600*
	60	78.7	158.0	1,477,600*
	65	76.8	156.9	1,372,300
	70	74.8	155.5	1,187,500
	75	72.8	154.0	1,041,600
	80	70.8	152.2	923,400
	85	68.7	150.3	820,900*
	90	66.6	148.1	732,500*
	95	64.5	145.7	657,400*
	100	62.4	143.1	592,800*
<b>150</b>	105	60.2	140.3	536,600*
	110	57.9	137.1	487,300*
	115	55.6	133.7	443,700*
	120	53.2	130.0	404,900*
	125	50.8	126.0	370,200*
	130	48.2	121.5	338,800*
	135	45.6	116.7	310,500*
	140	42.8	111.4	284,700*
	145	39.8	105.5	261,100*
	150	36.7	98.9	238,400*
<b>175</b>	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	1,191,100
	75	75.3	180.1	1,045,000
	80	73.6	178.6	926,600
	85	71.9	177.0	827,100*
	90	70.2	175.2	738,400*
	95	68.4	173.2	662,900*
<b>175</b>	100	66.6	171.0	598,000*
	105	64.8	168.7	541,500*
	110	63.0	166.1	492,000*
	115	61.1	163.4	448,100*
	120	59.2	160.4	409,100*
	125	57.2	157.2	374,100*
	130	55.3	153.7	342,600*
	135	53.2	150.0	314,000*
	140	51.1	146.0	288,000*
	145	49.0	141.7	264,300*
<b>175</b>	150	46.7	137.0	242,500*
	155	44.4	132.0	222,400*
	160	42.0	126.5	203,900*
	165	39.4	120.5	186,800*
	170	36.7	113.9	170,900*
	175	33.8	106.6	156,100*
	180	30.6	98.4	142,400*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	
<b>200</b>	65	80.1	208.0	1,204,000*	
	70	78.7	207.0	1,190,500	
	75	77.2	205.9	1,044,600	
	80	75.7	204.6	926,300	
	85	74.2	203.2	828,600	
	90	72.7	201.6	740,500*	
	95	71.2	199.9	664,800*	
	100	69.7	198.1	599,700*	
	105	68.1	196.1	543,000*	
	110	66.6	193.9	493,300*	
<b>200</b>	115	65.0	191.6	449,400*	
	120	63.4	189.1	410,200*	
	125	61.8	186.4	375,100*	
	130	60.1	183.6	343,500*	
	135	58.4	180.5	314,800*	
	140	56.7	177.2	288,700*	
	145	55.0	173.7	264,900*	
	150	53.2	170.0	243,000*	
	155	51.4	166.0	222,900*	
	160	49.5	161.8	204,300*	
<b>225</b>	165	47.6	157.3	187,000*	
	170	45.6	152.4	171,000*	
	175	43.5	147.2	156,100*	
	180	41.3	141.6	142,200*	
	185	39.1	135.5	129,200*	
	190	36.7	128.9	117,000*	
	195	34.2	121.7	105,600*	
	<b>225</b>	70	79.9	232.5	1,080,700*
		75	78.6	231.5	1,046,400
		80	77.3	230.4	927,900
85		76.0	229.2	830,000	
90		74.7	227.8	744,300*	
95		73.4	226.3	668,200*	
100		72.0	224.7	602,700*	
105		70.7	222.9	545,800*	
110		69.3	221.0	495,800*	
115		68.0	219.0	451,600*	
<b>225</b>	120	66.6	216.8	412,200*	
	125	65.2	214.5	376,900*	
	130	63.7	212.1	345,000*	
	135	62.3	209.4	316,200*	
	140	60.8	206.7	289,900*	
	145	59.4	203.7	265,900*	
	150	57.9	200.6	243,900*	
	155	56.3	197.3	223,600*	
	160	54.8	193.7	204,800*	
	165	53.2	190.0	187,500*	
<b>225</b>	170	51.6	186.1	171,300*	
	175	49.9	181.9	156,300*	
	180	48.2	177.4	142,300*	
	185	46.5	172.7	129,100*	
	190	44.7	167.7	116,800*	
	195	42.8	162.3	105,300*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	
<b>250</b>	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	830,400	
	90	76.3	253.7	747,100*	
	95	75.1	252.3	670,500*	
	100	73.9	250.9	604,500*	
	105	72.7	249.3	547,200*	
	110	71.5	247.7	496,900*	
	115	70.3	245.9	452,400*	
<b>250</b>	120	69.0	244.0	412,800*	
	125	67.8	241.9	377,300*	
	130	66.6	239.8	345,200*	
	135	65.3	237.5	316,200*	
	140	64.0	235.0	289,700*	
	145	62.7	232.4	265,600*	
	150	61.4	229.7	243,400*	
	155	60.1	226.9	223,000*	
	160	58.8	223.8	204,100*	
	165	57.4	220.6	186,600*	
<b>275</b>	170	56.0	217.3	170,300*	
	175	54.6	213.7	155,200*	
	180	53.2	210.0	141,000*	
	185	51.7	206.1	127,800*	
	190	50.2	201.9	115,400*	
	195	48.7	197.6	103,700*	
	<b>275</b>	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	745,900
95		76.5	278.2	670,100*	
100		75.4	276.9	604,000*	
105		74.3	275.5	546,600*	
110		73.2	274.0	496,100*	
115		72.1	272.4	451,500*	
120		71.0	270.7	411,800*	
<b>275</b>	125	69.9	268.8	376,200*	
	130	68.8	266.9	344,000*	
	135	67.7	264.8	314,900*	
	140	66.5	262.7	288,400*	
	145	65.4	260.4	264,200*	
	150	64.2	258.0	242,000*	
	155	63.1	255.4	221,500*	
	160	61.9	252.8	202,600*	
	165	60.7	250.0	185,000*	
	170	59.5	247.0	168,700*	
<b>275</b>	175	58.3	243.9	153,600*	
	180	57.0	240.7	139,400*	
	185	55.8	237.3	126,100*	
	190	54.5	233.7	113,600*	
	195	53.2	230.0	101,900*	

# MANITOWOC ENGINEERING CO.

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



## LIFTCRANE 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  
1,049,600 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
<b>150</b>	55	80.7	159.0	1,447,600*
	60	78.7	158.0	1,447,600*
	65	76.8	156.9	1,355,900
	70	74.8	155.5	1,171,900
	75	72.8	154.0	1,026,700
	80	70.8	152.2	906,800*
	85	68.7	150.3	802,000*
	90	66.6	148.1	714,200*
	95	64.5	145.7	639,600*
	100	62.4	143.1	575,400*
	105	60.2	140.3	519,500*
	110	57.9	137.1	470,600*
	115	55.6	133.7	427,300*
	120	53.2	130.0	388,700*
	125	50.8	126.0	354,200*
	130	48.2	121.5	323,100*
135	45.6	116.7	295,000*	
140	42.8	111.4	269,400*	
145	39.8	105.5	246,000*	
150	36.7	98.9	223,500*	
155	33.2	91.4	192,600*	
160	29.5	82.9	162,400*	
<b>175</b>	60	80.4	183.5	1,309,600*
	65	78.7	182.5	1,309,600*
	70	77.0	181.4	1,176,100
	75	75.3	180.1	1,030,700
	80	73.6	178.6	912,900
	85	71.9	177.0	809,200*
	90	70.2	175.2	721,000*
	95	68.4	173.2	646,000*
	100	66.6	171.0	581,500*
	105	64.8	168.7	525,400*
	110	63.0	166.1	476,100*
	115	61.1	163.4	432,600*
	120	59.2	160.4	393,800*
	125	57.2	157.2	359,100*
	130	55.3	153.7	327,800*
	135	53.2	150.0	299,400*
140	51.1	146.0	273,600*	
145	49.0	141.7	250,000*	
150	46.7	137.0	228,400*	
155	44.4	132.0	208,500*	
160	42.0	126.5	190,200*	
165	39.4	120.5	173,200*	
170	36.7	113.9	157,500*	
175	33.8	106.6	142,900*	
180	30.6	98.4	129,300*	
185	27.2	89.0	115,500*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>200</b>	65	80.1	208.0	1,179,900*
	70	78.7	207.0	1,176,100
	75	77.2	205.9	1,030,800
	80	75.7	204.6	913,100
	85	74.2	203.2	812,300*
	90	72.7	201.6	723,900*
	95	71.2	199.9	648,600*
	100	69.7	198.1	583,900*
	105	68.1	196.1	527,700*
	110	66.6	193.9	478,300*
	115	65.0	191.6	434,600*
	120	63.4	189.1	395,700*
	125	61.8	186.4	360,800*
	130	60.1	183.6	329,400*
	135	58.4	180.5	301,000*
	140	56.7	177.2	275,000*
145	55.0	173.7	251,400*	
150	53.2	170.0	229,600*	
155	51.4	166.0	209,700*	
160	49.5	161.8	191,200*	
165	47.6	157.3	174,100*	
170	45.6	152.4	158,200*	
175	43.5	147.2	143,500*	
180	41.3	141.6	129,700*	
185	39.1	135.5	116,800*	
190	36.7	128.9	104,700*	
<b>225</b>	70	79.9	232.5	1,058,800*
	75	78.6	231.5	1,033,200
	80	77.3	230.4	915,300
	85	76.0	229.2	817,400*
	90	74.7	227.8	728,400*
	95	73.4	226.3	652,800*
	100	72.0	224.7	587,700*
	105	70.7	222.9	531,100*
	110	69.3	221.0	481,400*
	115	68.0	219.0	437,500*
	120	66.6	216.8	398,300*
	125	65.2	214.5	363,200*
	130	63.7	212.1	331,600*
	135	62.3	209.4	302,900*
	140	60.8	206.7	276,900*
	145	59.4	203.7	253,000*
150	57.9	200.6	231,100*	
155	56.3	197.3	211,000*	
160	54.8	193.7	192,400*	
165	53.2	190.0	175,100*	
170	51.6	186.1	159,100*	
175	49.9	181.9	144,200*	
180	48.2	177.4	130,300*	
185	46.5	172.7	117,300*	
190	44.7	167.7	105,000*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>250</b>	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	818,600
	90	76.3	253.7	731,800*
	95	75.1	252.3	655,600*
	100	73.9	250.9	590,100*
	105	72.7	249.3	533,100*
	110	71.5	247.7	483,100*
	115	70.3	245.9	438,900*
	120	69.0	244.0	399,500*
	125	67.8	241.9	364,200*
	130	66.6	239.8	332,400*
	135	65.3	237.5	303,500*
	140	64.0	235.0	277,200*
	145	62.7	232.4	253,200*
150	61.4	229.7	231,200*	
155	60.1	226.9	210,900*	
160	58.8	223.8	192,100*	
165	57.4	220.6	174,800*	
170	56.0	217.3	158,600*	
175	54.6	213.7	143,600*	
180	53.2	210.0	129,500*	
185	51.7	206.1	116,400*	
190	50.2	201.9	104,100*	
<b>275</b>	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	731,800*
	95	76.5	278.2	655,500*
	100	75.4	276.9	589,800*
	105	74.3	275.5	532,700*
	110	73.2	274.0	482,600*
	115	72.1	272.4	438,200*
	120	71.0	270.7	398,700*
	125	69.9	268.8	363,400*
	130	68.8	266.9	331,400*
	135	67.7	264.8	302,500*
	140	66.5	262.7	276,200*
	145	65.4	260.4	252,100*
	150	64.2	258.0	230,100*
155	63.1	255.4	209,700*	
160	61.9	252.8	190,900*	
165	60.7	250.0	173,500*	
170	59.5	247.0	157,300*	
175	58.3	243.9	142,200*	
180	57.0	240.7	128,200*	
185	55.8	237.3	115,000*	
190	54.5	233.7	102,600*	



# 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  
 1,049,600 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
<b>150</b>	55	80.7	159.0	1,407,000*
	60	78.7	158.0	1,407,000*
	65	76.8	156.9	1,334,400
	70	74.8	155.5	1,152,000
	75	72.8	154.0	1,007,800
	80	70.8	152.2	882,600*
	85	68.7	150.3	778,900*
	90	66.6	148.1	692,000*
	95	64.5	145.7	618,200*
	100	62.4	143.1	554,700*
	105	60.2	140.3	499,500*
	110	57.9	137.1	451,100*
115	55.6	133.7	408,300*	
120	53.2	130.0	370,200*	
125	50.8	126.0	336,200*	
130	48.2	121.5	305,500*	
135	45.6	116.7	277,700*	
140	42.8	111.4	252,500*	
145	39.8	105.5	229,500*	
150	36.7	98.9	207,400*	
155	33.2	91.4	176,700*	
160	29.5	82.9	146,900*	
<b>175</b>	60	80.4	183.5	1,274,800*
	65	78.7	182.5	1,274,400*
	70	77.0	181.4	1,156,700
	75	75.3	180.1	1,012,400
	80	73.6	178.6	891,600*
	85	71.9	177.0	787,300*
	90	70.2	175.2	700,000*
	95	68.4	173.2	625,700*
	100	66.6	171.0	561,900*
	105	64.8	168.7	506,300*
	110	63.0	166.1	457,600*
	115	61.1	163.4	414,600*
120	59.2	160.4	376,200*	
125	57.2	157.2	341,900*	
130	55.3	153.7	311,000*	
135	53.2	150.0	282,900*	
140	51.1	146.0	257,500*	
145	49.0	141.7	234,200*	
150	46.7	137.0	212,900*	
155	44.4	132.0	193,300*	
160	42.0	126.5	175,200*	
165	39.4	120.5	158,500*	
170	36.7	113.9	143,000*	
175	33.8	106.6	128,700*	
180	30.6	98.4	115,300*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>200</b>	65	80.1	208.0	1,148,200*
	70	78.7	207.0	1,148,200*
	75	77.2	205.9	1,013,100
	80	75.7	204.6	895,300*
	85	74.2	203.2	790,800*
	90	72.7	201.6	703,200*
	95	71.2	199.9	628,800*
	100	69.7	198.1	564,800*
	105	68.1	196.1	509,100*
	110	66.6	193.9	460,300*
	115	65.0	191.6	417,100*
	120	63.4	189.1	378,700*
125	61.8	186.4	344,200*	
130	60.1	183.6	313,200*	
135	58.4	180.5	285,500*	
140	56.7	177.2	259,400*	
145	55.0	173.7	236,000*	
150	53.2	170.0	214,600*	
155	51.4	166.0	194,900*	
160	49.5	161.8	176,700*	
165	47.6	157.3	159,800*	
170	45.6	152.4	144,100*	
175	43.5	147.2	129,600*	
180	41.3	141.6	116,000*	
185	39.1	135.5	103,400*	
<b>225</b>	70	79.9	232.5	1,030,200*
	75	78.6	231.5	1,016,000
	80	77.3	230.4	899,000
	85	76.0	229.2	796,500*
	90	74.7	227.8	708,400*
	95	73.4	226.3	633,600*
	100	72.0	224.7	569,200*
	105	70.7	222.9	513,200*
	110	69.3	221.0	464,000*
	115	68.0	219.0	420,600*
	120	66.6	216.8	381,900*
	125	65.2	214.5	347,200*
130	63.7	212.1	315,900*	
135	62.3	209.4	287,600*	
140	60.8	206.7	261,800*	
145	59.4	203.7	238,200*	
150	57.9	200.6	216,600*	
155	56.3	197.3	196,700*	
160	54.8	193.7	178,300*	
165	53.2	190.0	161,300*	
170	51.6	186.1	145,500*	
175	49.9	181.9	130,800*	
180	48.2	177.4	117,000*	
185	46.5	172.7	104,200*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>250</b>	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	801,100*
	90	76.3	253.7	712,400*
	95	75.1	252.3	637,000*
	100	73.9	250.9	572,200*
	105	72.7	249.3	515,800*
	110	71.5	247.7	466,300*
	115	70.3	245.9	422,600*
	120	69.0	244.0	383,600*
	125	67.8	241.9	348,600*
130	66.6	239.8	317,100*	
135	65.3	237.5	288,600*	
140	64.0	235.0	262,600*	
145	62.7	232.4	238,900*	
150	61.4	229.7	217,100*	
155	60.1	226.9	197,000*	
160	58.8	223.8	178,500*	
165	57.4	220.6	161,300*	
170	56.0	217.3	145,400*	
175	54.6	213.7	130,500*	
180	53.2	210.0	116,700*	
185	51.7	206.1	103,700*	
<b>275</b>	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	712,600*
	95	76.5	278.2	637,000*
	100	75.4	276.9	572,000*
	105	74.3	275.5	515,500*
	110	73.2	274.0	466,000*
	115	72.1	272.4	422,100*
	120	71.0	270.7	383,100*
	125	69.9	268.8	348,000*
	130	68.8	266.9	316,500*
135	67.7	264.8	287,900*	
140	66.5	262.7	261,900*	
145	65.4	260.4	238,100*	
150	64.2	258.0	216,200*	
155	63.1	255.4	196,100*	
160	61.9	252.8	177,500*	
165	60.7	250.0	160,300*	
170	59.5	247.0	144,300*	
175	58.3	243.9	129,400*	
180	57.0	240.7	115,500*	
185	55.8	237.3	102,500*	



# 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  
 1,049,600 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
<b>150</b>	55	80.7	159.0	1,380,500*
	60	78.7	158.0	1,378,800*
	65	76.8	156.9	1,321,000
	70	74.8	155.5	1,139,100
	75	72.8	154.0	991,900*
	80	70.8	152.2	866,500*
	85	68.7	150.3	763,300*
	90	66.6	148.1	676,800*
	95	64.5	145.7	603,300*
	100	62.4	143.1	540,100*
	105	60.2	140.3	485,200*
	110	57.9	137.1	437,000*
	115	55.6	133.7	394,500*
	120	53.2	130.0	356,600*
	125	50.8	126.0	322,700*
	130	48.2	121.5	292,200*
135	45.6	116.7	264,600*	
140	42.8	111.4	239,500*	
145	39.8	105.5	216,700*	
150	36.7	98.9	194,700*	
155	33.2	91.4	164,200*	
160	29.5	82.9	134,600*	
<b>175</b>	60	80.4	183.5	1,250,800*
	65	78.7	182.5	1,249,200*
	70	77.0	181.4	1,144,500
	75	75.3	180.1	1,000,700
	80	73.6	178.6	876,300*
	85	71.9	177.0	772,500*
	90	70.2	175.2	685,600*
	95	68.4	173.2	611,700*
	100	66.6	171.0	548,200*
	105	64.8	168.7	492,900*
	110	63.0	166.1	444,500*
	115	61.1	163.4	401,600*
	120	59.2	160.4	363,500*
	125	57.2	157.2	329,300*
	130	55.3	153.7	298,600*
	135	53.2	150.0	270,700*
140	51.1	146.0	245,400*	
145	49.0	141.7	222,300*	
150	46.7	137.0	201,100*	
155	44.4	132.0	181,600*	
160	42.0	126.5	163,700*	
165	39.4	120.5	147,100*	
170	36.7	113.9	131,700*	
175	33.8	106.6	117,500*	
180	30.6	98.4	104,200*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>200</b>	65	80.1	208.0	1,126,500*
	70	78.7	207.0	1,125,800*
	75	77.2	205.9	1,001,900
	80	75.7	204.6	880,800*
	85	74.2	203.2	776,800*
	90	72.7	201.6	689,600*
	95	71.2	199.9	615,600*
	100	69.7	198.1	551,900*
	105	68.1	196.1	496,500*
	110	66.6	193.9	447,900*
	115	65.0	191.6	404,900*
	120	63.4	189.1	366,700*
	125	61.8	186.4	332,400*
	130	60.1	183.6	301,500*
	135	58.4	180.5	273,500*
	140	56.7	177.2	248,100*
145	55.0	173.7	224,800*	
150	53.2	170.0	203,500*	
155	51.4	166.0	183,900*	
160	49.5	161.8	165,800*	
165	47.6	157.3	149,000*	
170	45.6	152.4	133,500*	
175	43.5	147.2	119,000*	
180	41.3	141.6	105,600*	
<b>225</b>	70	79.9	232.5	1,011,200*
	75	78.6	231.5	1,005,300
	80	77.3	230.4	888,300*
	85	76.0	229.2	783,600*
	90	74.7	227.8	695,900*
	95	73.4	226.3	621,300*
	100	72.0	224.7	557,200*
	105	70.7	222.9	501,400*
	110	69.3	221.0	452,500*
	115	68.0	219.0	409,200*
	120	66.6	216.8	370,700*
	125	65.2	214.5	336,100*
	130	63.7	212.1	305,000*
	135	62.3	209.4	276,800*
	140	60.8	206.7	251,100*
	145	59.4	203.7	227,700*
150	57.9	200.6	206,200*	
155	56.3	197.3	186,400*	
160	54.8	193.7	168,100*	
165	53.2	190.0	151,100*	
170	51.6	186.1	135,400*	
175	49.9	181.9	120,800*	
180	48.2	177.4	107,100*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
<b>250</b>	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	788,300*
	90	76.3	253.7	700,100*
	95	75.1	252.3	625,000*
	100	73.9	250.9	560,500*
	105	72.7	249.3	504,400*
	110	71.5	247.7	455,100*
	115	70.3	245.9	411,600*
	120	69.0	244.0	372,800*
	125	67.8	241.9	338,000*
	130	66.6	239.8	306,700*
	135	65.3	237.5	278,300*
	140	64.0	235.0	252,400*
	145	62.7	232.4	228,800*
150	61.4	229.7	207,100*	
155	60.1	226.9	187,200*	
160	58.8	223.8	168,700*	
165	57.4	220.6	151,700*	
170	56.0	217.3	135,800*	
175	54.6	213.7	121,000*	
180	53.2	210.0	107,200*	
<b>275</b>	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	700,400*
	95	76.5	278.2	625,200*
	100	75.4	276.9	560,600*
	105	74.3	275.5	504,300*
	110	73.2	274.0	455,000*
	115	72.1	272.4	411,400*
	120	71.0	270.7	372,500*
	125	69.9	268.8	337,700*
	130	68.8	266.9	306,300*
	135	67.7	264.8	277,800*
	140	66.5	262.7	251,900*
	145	65.4	260.4	228,300*
	150	64.2	258.0	206,500*
155	63.1	255.4	186,500*	
160	61.9	252.8	168,100*	
165	60.7	250.0	151,000*	
170	59.5	247.0	135,100*	
175	58.3	243.9	120,200*	
180	57.0	240.7	106,400*	