

LIFTCRANE BOOM CAPACITIES WITH JIB NO. 75 ATTACHED

M-1200

**BOOM NO. 72 OR NO. 72A WITH 1,433 TON BOOM POINT
MAST NO. 75 OR NO. 75A
82'6" JIB STRUT
JIB AT 8 DEGREE OFFSET
60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS
52,000 LB. CRANE COUNTERWEIGHT
2,017,600 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 (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH 6 PART LINE IS 180,000 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY. UPPER BOOM POINT MINIMUM OPERATING RADII WILL BE RESTRICTED WITH BOOM AT MAXIMUM ANGLE.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. WEIGHT OF JIB AND 100,000 LB. JIB LOAD (WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALLS, SLINGS, HOIST LINES, ETC. BENEATH JIB POINT SHEAVES) AND 13,500 LB. UPPER BOOM POINT LOAD (WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALLS, SLINGS, HOIST LINES, ETC. BENEATH UPPER BOOM POINT SHEAVES) HAVE BEEN INCLUDED IN CAPACITY DETERMINATION. DO NOT USE THIS CHART IF JIB LOAD EXCEEDS 100,000 LBS. OR UPPER BOOM POINT LOAD EXCEEDS 13,500 LBS. IF JIB LOAD IS LESS THAN 100,000 LBS., OR UPPER BOOM POINT LOAD IS LESS THAN 13,500 LBS., THE DIFFERENCE CAN BE ADDED TO BOOM CAPACITY. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS BENEATH BOOM POINT SHEAVES 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 AT PROPER OFFSET ANGLE SHOWN. REFER TO BOOM RIGGING NO. 173399, NO. 175673 OR NO. 175955, JIB ASSEMBLY NO. 173400 OR NO. 176116 AND WIRE ROPE SPECIFICATION CHART NO. 7683-E. 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 35 MPH PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION AND LOWERING BOOM AND JIB TO APPROXIMATELY 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS 35 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 32 PART BOOM HOIST REEVING OR NO. 75A MAST WITH 36 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, STRAP JIB PENDANTS AND BACKSTAYS, 52,000 LB. CRANE COUNTERWEIGHT, AND 2,017,600 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED	
BOOM LGTH.	JIB NO. 75
253'	---
253'	150'
228'	200'
203'	225'
LOAD BLOCKS ON GROUND AT START.	

UPPER BOOM POINT CANNOT BE USED ON BOOM NO. 72.

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

CONSULT CHART NO. 7713-A FOR JIB CAPACITIES.

MANITOWOC ENGINEERING CO.

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



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MAST NO. 75 OR NO. 75A

82'6" JIB STRUT

100' JIB AT 8 DEGREE OFFSET

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

2,017,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 0 3	65	81.4	211.2	1,764,000*
	70	80.0	210.2	1,764,000*
	75	78.5	209.1	1,546,400
	80	77.1	207.8	1,359,300
	85	75.6	206.4	1,204,700
	90	74.1	204.9	1,074,600
	95	72.6	203.2	963,800
	100	71.1	201.4	868,100
	105	69.6	199.4	784,800
	110	68.1	197.3	711,400
	115	66.5	195.0	646,400
	120	65.0	192.6	588,400
	125	63.4	189.9	536,300
	130	61.8	187.1	489,200
	135	60.1	184.1	446,500
	140	58.4	180.9	407,500
	145	56.7	177.5	371,800
	150	55.0	173.9	338,900
	155	53.2	170.0	308,600
	160	51.4	165.9	280,600
	165	49.5	161.5	254,500
	170	47.6	156.8	230,200
	175	45.5	151.7	207,600
	180	43.5	146.3	186,300
	185	41.3	140.4	166,400
	190	39.0	134.1	147,700
	195	36.6	127.2	130,000
	200	34.1	119.6	109,500*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 2 8	70	81.1	235.7	1,764,000*
	75	79.8	234.7	1,764,000*
	80	78.5	233.6	1,572,600
	85	77.2	232.3	1,399,300
	90	75.9	231.0	1,253,600
	95	74.6	229.5	1,129,300
	100	73.3	227.9	1,022,200
	105	72.0	226.2	928,800
	110	70.6	224.3	846,600
	115	69.3	222.3	773,800
	120	67.9	220.2	708,800
	125	66.5	217.9	650,400
	130	65.1	215.5	597,700
	135	63.7	212.9	549,800
	140	62.3	210.2	506,200
	145	60.8	207.3	466,200
	150	59.4	204.2	429,500
	155	57.9	201.0	395,600
	160	56.3	197.5	364,200
	165	54.8	193.9	335,100
	170	53.2	190.0	303,700*
	175	51.6	185.9	270,400*
	180	49.9	181.6	238,800*
	185	48.2	177.0	208,700*
	190	46.4	172.1	179,800*
	195	44.6	166.9	170,100*
	200	42.8	161.4	159,300*
	205	40.8	155.4	132,400*
	210	38.8	149.0	106,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 5 3	70	82.0	261.0	1,764,000*
	75	80.8	260.2	1,764,000*
	80	79.7	259.2	1,572,600
	85	78.5	258.1	1,398,900
	90	77.3	256.9	1,253,000
	95	76.2	255.5	1,128,500
	100	75.0	254.1	1,021,100
	105	73.8	252.6	927,600
	110	72.6	250.9	845,300
	115	71.4	249.1	772,300
	120	70.2	247.3	707,200
	125	69.0	245.3	648,800
	130	67.8	243.1	596,000
	135	66.5	240.8	548,000
	140	65.3	238.5	504,300
	145	64.0	235.9	464,300
	150	62.7	233.2	427,500
	155	61.4	230.4	393,600
	160	60.1	227.4	362,200
	165	58.8	224.3	333,000
	170	57.4	221.0	305,900
	175	56.0	217.5	280,600
	180	54.6	213.9	256,900
	185	53.2	210.0	234,700
	190	51.7	206.0	160,700*
	195	50.2	201.7	153,000*
	200	48.7	197.2	145,200*
	205	47.2	192.4	121,900*

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125' JIB AT 8 DEGREE OFFSET

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2,017,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 0 3	65	81.4	211.2	1,764,000*
	70	80.0	210.2	1,764,000*
	75	78.5	209.1	1,744,700
	80	77.1	207.8	1,535,900
	85	75.6	206.4	1,363,300
	90	74.1	204.9	1,218,200
	95	72.6	203.2	1,094,500
	100	71.1	201.4	987,800
	105	69.6	199.4	894,800
	110	68.1	197.3	813,000
	115	66.5	195.0	740,500
	120	65.0	192.6	675,700
	125	63.4	189.9	617,600
	130	61.8	187.1	565,100
	135	60.1	184.1	517,500
	140	58.4	180.9	474,000
	145	56.7	177.5	397,400*
	150	55.0	173.9	395,900*
	155	53.2	170.0	350,900*
	160	51.4	165.9	308,700*
	165	49.5	161.5	268,800*
	170	47.6	156.8	231,100*
	175	45.5	151.7	230,100*
	180	43.5	146.3	198,400*
	185	41.3	140.4	164,200*
	190	39.0	134.1	131,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 2 8	70	81.1	235.7	1,764,000*
	75	79.8	234.7	1,750,200
	80	78.5	233.6	1,540,900
	85	77.2	232.3	1,367,900
	90	75.9	231.0	1,222,500
	95	74.6	229.5	1,098,500
	100	73.3	227.9	991,500
	105	72.0	226.2	898,200
	110	70.6	224.3	816,200
	115	69.3	222.3	743,600
	120	67.9	220.2	678,700
	125	66.5	217.9	620,400
	130	65.1	215.5	567,800
	135	63.7	212.9	520,000
	140	62.3	210.2	476,500
	145	60.8	207.3	436,600
	150	59.4	204.2	399,900
	155	57.9	201.0	366,100
	160	56.3	197.5	334,800
	165	54.8	193.9	305,700
	170	53.2	190.0	264,400*
	175	51.6	185.9	231,300*
	180	49.9	181.6	199,800*
	185	48.2	177.0	169,700*
	190	46.4	172.1	140,900*
	195	44.6	166.9	130,300*
	200	42.8	161.4	120,500*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 5 3	70	82.0	261.0	1,764,000*
	75	80.8	260.2	1,752,100
	80	79.7	259.2	1,542,500
	85	78.5	258.1	1,369,100
	90	77.3	256.9	1,223,400
	95	76.2	255.5	1,099,200
	100	75.0	254.1	992,100
	105	73.8	252.6	898,700
	110	72.6	250.9	816,500
	115	71.4	249.1	743,700
	120	70.2	247.3	678,700
	125	69.0	245.3	620,400
	130	67.8	243.1	567,700
	135	66.5	240.8	519,900
	140	65.3	238.5	476,200
	145	64.0	235.9	436,300
	150	62.7	233.2	399,600
	155	61.4	230.4	365,700
	160	60.1	227.4	334,400
	165	58.8	224.3	305,300
	170	57.4	221.0	278,200
	175	56.0	217.5	253,000
	180	54.6	213.9	229,300
	185	53.2	210.0	207,200

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 0 3	65	81.4	211.2	1,764,000*
	70	80.0	210.2	1,764,000*
	75	78.5	209.1	1,706,400
	80	77.1	207.8	1,498,200
	85	75.6	206.4	1,326,100
	90	74.1	204.9	1,181,500
	95	72.6	203.2	1,058,200
	100	71.1	201.4	951,800
	105	69.6	199.4	859,100
	110	68.1	197.3	777,500
	115	66.5	195.0	705,200
	120	65.0	192.6	640,700
	125	63.4	189.9	582,800
	130	61.8	187.1	530,500
	135	60.1	184.1	483,000
	140	58.4	180.9	439,600
	145	56.7	177.5	351,600*
	150	55.0	173.9	350,300*
	155	53.2	170.0	305,500*
	160	51.4	165.9	263,400*
	165	49.5	161.5	223,700*
	170	47.6	156.8	186,200*
	175	45.5	151.7	170,000*
	180	43.5	146.3	153,700*
	185	41.3	140.4	119,700*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 2 8	70	81.1	235.7	1,764,000*
	75	79.8	234.7	1,714,300
	80	78.5	233.6	1,505,600
	85	77.2	232.3	1,333,100
	90	75.9	231.0	1,188,000
	95	74.6	229.5	1,064,400
	100	73.3	227.9	957,700
	105	72.0	226.2	864,800
	110	70.6	224.3	783,000
	115	69.3	222.3	710,500
	120	67.9	220.2	645,900
	125	66.5	217.9	587,800
	130	65.1	215.5	535,300
	135	63.7	212.9	487,700
	140	62.3	210.2	444,300
	145	60.8	207.3	404,500
	150	59.4	204.2	368,000
	155	57.9	201.0	334,300
	160	56.3	197.5	303,100
	165	54.8	193.9	274,100
	170	53.2	190.0	222,200*
	175	51.6	185.9	189,200*
	180	49.9	181.6	157,800*
	185	48.2	177.0	127,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 5 3	70	82.0	261.0	1,764,000*
	75	80.8	260.2	1,717,700
	80	79.7	259.2	1,508,700
	85	78.5	258.1	1,335,900
	90	77.3	256.9	1,190,700
	95	76.2	255.5	1,066,800
	100	75.0	254.1	960,000
	105	73.8	252.6	866,900
	110	72.6	250.9	785,000
	115	71.4	249.1	712,400
	120	70.2	247.3	647,700
	125	69.0	245.3	589,500
	130	67.8	243.1	537,000
	135	66.5	240.8	489,300
	140	65.3	238.5	445,800
	145	64.0	235.9	406,000
	150	62.7	233.2	369,400
	155	61.4	230.4	335,700
	160	60.1	227.4	304,500
	165	58.8	224.3	275,500
	170	57.4	221.0	248,500
	175	56.0	217.5	223,300
	180	54.6	213.9	199,800
	185	53.2	210.0	177,700

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2 0 3	65	81.4	211.2	1,764,000*
	70	80.0	210.2	1,764,000*
	75	78.5	209.1	1,668,300
	80	77.1	207.8	1,461,000
	85	75.6	206.4	1,289,600
	90	74.1	204.9	1,145,500
	95	72.6	203.2	1,022,600
	100	71.1	201.4	916,700
	105	69.6	199.4	824,300
	110	68.1	197.3	743,100
	115	66.5	195.0	671,100
	120	65.0	192.6	606,900
	125	63.4	189.9	549,200
	130	61.8	187.1	497,100
	135	60.1	184.1	449,800
	140	58.4	180.9	406,700
	145	56.7	177.5	307,600*
	150	55.0	173.9	306,500*
	155	53.2	170.0	261,900*
	160	51.4	165.9	220,000*
	165	49.5	161.5	180,600*
	170	47.6	156.8	143,200*
	175	45.5	151.7	127,200*
	180	43.5	146.3	111,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 2 8	70	81.1	235.7	1,764,000*
	75	79.8	234.7	1,678,500
	80	78.5	233.6	1,470,600
	85	77.2	232.3	1,298,700
	90	75.9	231.0	1,154,300
	95	74.6	229.5	1,031,100
	100	73.3	227.9	924,900
	105	72.0	226.2	832,300
	110	70.6	224.3	750,900
	115	69.3	222.3	678,700
	120	67.9	220.2	614,300
	125	66.5	217.9	556,400
	130	65.1	215.5	504,200
	135	63.7	212.9	456,800
	140	62.3	210.2	413,600
	145	60.8	207.3	374,000
	150	59.4	204.2	337,600
	155	57.9	201.0	304,000
	160	56.3	197.5	273,000
	165	54.8	193.9	244,200
	170	53.2	190.0	182,300*
	175	51.6	185.9	149,500*
	180	49.9	181.6	118,200*

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2 0 3	65	81.4	211.2	1,764,000*
	70	80.0	210.2	1,764,000*
	75	78.5	209.1	1,623,900
	80	77.1	207.8	1,417,600
	85	75.6	206.4	1,247,000
	90	74.1	204.9	1,103,600
	95	72.6	203.2	981,400
	100	71.1	201.4	875,900
	105	69.6	199.4	784,000
	110	68.1	197.3	703,200
	115	66.5	195.0	631,600
	120	65.0	192.6	567,700
	125	63.4	189.9	510,300
	130	61.8	187.1	458,500
	135	60.1	184.1	411,500
	140	58.4	180.9	368,600
	145	56.7	177.5	256,800*
	150	55.0	173.9	256,100*
	155	53.2	170.0	211,800*
	160	51.4	165.9	170,100*
	165	49.5	161.5	130,900*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 2 8	70	81.1	235.7	1,764,000*
	75	79.8	234.7	1,636,500
	80	78.5	233.6	1,429,700
	85	77.2	232.3	1,258,600
	90	75.9	231.0	1,114,900
	95	74.6	229.5	992,300
	100	73.3	227.9	886,600
	105	72.0	226.2	794,500
	110	70.6	224.3	713,500
	115	69.3	222.3	641,700
	120	67.9	220.2	577,600
	125	66.5	217.9	520,000
	130	65.1	215.5	468,100
	135	63.7	212.9	420,900
	140	62.3	210.2	377,900
	145	60.8	207.3	338,500
	150	59.4	204.2	302,300
	155	57.9	201.0	269,000
	160	56.3	197.5	238,100
	165	54.8	193.9	209,400
	170	53.2	190.0	136,000*
	175	51.6	185.9	103,400*

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH JIB NO. 75 ATTACHED

M-1200

BOOM NO. 72 OR NO. 72A WITH 1,433 TON BOOM POINT
MAST NO. 75 OR NO. 75A
82'6" JIB STRUT
225' JIB AT 8 DEGREE OFFSET
60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS
52,000 LB. CRANE COUNTERWEIGHT
2,017,600 LB. AUXILIARY COUNTERWEIGHT
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
2 0 3	65	81.4	211.2	1,764,000*
	70	80.0	210.2	1,764,000*
	75	78.5	209.1	1,584,300
	80	77.1	207.8	1,378,600
	85	75.6	206.4	1,208,500
	90	74.1	204.9	1,065,500
	95	72.6	203.2	943,600
	100	71.1	201.4	838,500
	105	69.6	199.4	746,900
	110	68.1	197.3	666,300
	115	66.5	195.0	594,900
	120	65.0	192.6	531,200
	125	63.4	189.9	474,000
	130	61.8	187.1	422,400
	135	60.1	184.1	375,500
	140	58.4	180.9	332,700
	145	56.7	177.5	208,900*
	150	55.0	173.9	208,400*
	155	53.2	170.0	164,200*
	160	51.4	165.9	122,700*