

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

M-1200

BOOM NO. 72 WITH 882 TON BOOM POINT

MAST NO. 75 OR NO. 75A

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, SLINGS, HOIST LINES, ETC., BENEATH BOOM SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH ROLLER PATH LEVEL WITHIN A TOLERANCE OF 1-1/4" IN 60' AND PROPERLY SUPPORTED. REFER TO BOOM RIGGING NO. 173399 AND WIRE ROPE SPECIFICATION CHART NO. 7683-A. 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 WITHIN WINDS LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION AND LOWERING BOOM TO APPROXIMATELY 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS THOSE SHOWN IN TABLE. LOWER BOOM 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 OR NO. 75A MAST, 32 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, 52,000 LB. CRANE COUNTERWEIGHT AND 2,017,600 LB. AUXILIARY COUNTERWEIGHT.

WIND LIMITS DURING OPERATION	
MAXIMUM WIND VELOCITY MPH	BOOM LENGTH FEET
35	153 - 253
30	278 - 403

MAXIMUM BOOM LENGTH LIFTED UNASSISTED = 403'	DEDUCT 5,400 LBS. FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED
LOAD BLOCKS ON GROUND AT START.	

CONSULT JIB CHART FOR JIB CAPACITIES. JIB AND JIB BACKSTAYS MUST BE REMOVED FOR USE OF THIS CHART.

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

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
153	56	82.0	162.0	1,764,000*
	58	81.2	161.7	1,764,000*
	60	80.5	161.2	1,764,000*
	65	78.5	160.1	1,764,000*
	70	76.6	158.8	1,764,000*
	75	74.7	157.2	1,764,000*
	80	72.7	155.5	1,764,000*
	85	70.7	153.6	1,665,800
	90	68.6	151.5	1,524,300
	95	66.6	149.2	1,403,800
	100	64.5	146.7	1,299,800
	105	62.3	143.9	1,209,200
	110	60.2	140.8	1,129,500
	115	57.9	137.5	1,058,900
	120	55.6	133.9	996,000
	125	53.2	130.0	939,400
	130	50.8	125.8	888,400
	135	48.2	121.1	842,100
	140	45.5	116.0	799,900
	145	42.7	110.4	761,200
	150	39.7	104.1	725,700
	155	36.5	97.1	676,300*
	160	33.0	89.2	626,900*
	165	29.1	80.0	578,200*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
178	65	80.2	185.7	1,764,000*
	70	78.5	184.6	1,764,000*
	75	76.9	183.3	1,764,000*
	80	75.2	181.8	1,764,000*
	85	73.5	180.2	1,657,500
	90	71.8	178.5	1,516,000
	95	70.1	176.5	1,395,300
	100	68.3	174.4	1,291,300
	105	66.6	172.1	1,200,700
	110	64.8	169.6	1,121,000
	115	62.9	166.9	1,050,400
	120	61.1	164.0	987,500
	125	59.2	160.9	930,900
	130	57.2	157.5	879,900
	135	55.3	153.9	833,600
	140	53.2	150.0	791,400
	145	51.1	145.8	752,700
	150	48.9	141.3	717,200
	155	46.7	136.4	684,500
	160	44.4	131.1	654,300
	165	41.9	125.4	626,200
	170	39.3	119.1	600,000
	175	36.6	112.2	575,700
	180	33.6	104.4	552,900
	185	30.4	95.7	521,100*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
203	65	81.4	211.2	1,764,000*
	70	80.0	210.2	1,764,000*
	75	78.5	209.1	1,764,000*
	80	77.1	207.8	1,764,000*
	85	75.6	206.4	1,651,300
	90	74.1	204.9	1,509,800
	95	72.6	203.2	1,389,100
	100	71.1	201.4	1,285,100
	105	69.6	199.4	1,194,400
	110	68.1	197.3	1,114,700
	115	66.5	195.0	1,044,100
	120	65.0	192.6	981,100
	125	63.4	189.9	924,600
	130	61.8	187.1	873,500
	135	60.1	184.1	827,200
	140	58.4	180.9	785,000
	145	56.7	177.5	746,400
	150	55.0	173.9	710,900
	155	53.2	170.0	678,200
	160	51.4	165.9	648,000
	165	49.5	161.5	619,900
	170	47.6	156.8	593,800
	175	45.5	151.7	569,500
	180	43.5	146.3	546,700
	185	41.3	140.4	525,400
	190	39.0	134.1	505,400
	195	36.6	127.2	486,500
	200	34.1	119.6	468,800
	205	31.3	111.2	452,000
	210	28.3	101.8	436,100

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360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
228	70	81.1	235.7	1,764,000*
	75	79.8	234.7	1,764,000*
	80	78.5	233.6	1,764,000*
	85	77.2	232.3	1,642,500
	90	75.9	231.0	1,500,900
	95	74.6	229.5	1,380,200
	100	73.3	227.9	1,276,100
	105	72.0	226.2	1,185,400
	110	70.6	224.3	1,105,600
	115	69.3	222.3	1,035,000
	120	67.9	220.2	972,000
	125	66.5	217.9	915,400
	130	65.1	215.5	864,400
	135	63.7	212.9	818,000
	140	62.3	210.2	775,800
	145	60.8	207.3	737,200
	150	59.4	204.2	701,700
	155	57.9	201.0	669,000
	160	56.3	197.5	638,700
	165	54.8	193.9	610,700
253	170	53.2	190.0	584,600
	175	51.6	185.9	560,200
	180	49.9	181.6	537,500
	185	48.2	177.0	516,200
	190	46.4	172.1	496,200
	195	44.6	166.9	477,400
	200	42.8	161.4	459,600
	205	40.8	155.4	442,900
	210	38.8	149.0	427,000
	215	36.6	142.2	412,000
	220	34.4	134.7	397,800
	225	32.0	126.6	384,300
	230	29.4	117.5	371,400
	70	82.0	261.0	1,764,000*
	75	80.8	260.2	1,764,000*
	80	79.7	259.2	1,764,000*
	85	78.5	258.1	1,633,700
	90	77.3	256.9	1,491,900
	95	76.2	255.5	1,371,200
	100	75.0	254.1	1,267,000
	105	73.8	252.6	1,176,300
	110	72.6	250.9	1,096,500
	115	71.4	249.1	1,025,800
278	120	70.2	247.3	962,800
	125	69.0	245.3	906,200
	130	67.8	243.1	855,100
	135	66.5	240.8	808,800
	140	65.3	238.5	766,600
	145	64.0	235.9	727,900
	150	62.7	233.2	692,400
	155	61.4	230.4	659,700
	160	60.1	227.4	629,400
	165	58.8	224.3	601,400
	170	57.4	221.0	575,300
	175	56.0	217.5	550,900
	180	54.6	213.9	528,200
	185	53.2	210.0	506,900
	190	51.7	206.0	486,900
	195	50.2	201.7	468,100
	200	48.7	197.2	450,300
	205	47.2	192.4	433,600
	210	45.6	187.4	417,800
	215	43.9	182.1	402,800
303	220	42.2	176.4	388,600
	225	40.4	170.4	375,100
	230	38.6	164.0	362,200
	235	36.7	157.2	350,000
	240	34.6	149.8	338,300
	245	32.5	141.8	327,200
	250	30.2	133.1	316,500
	255	27.8	123.5	306,300
	70	81.7	285.6	1,764,000*
	80	80.6	284.6	1,764,000*
	85	79.6	283.6	1,627,500
	90	78.5	282.6	1,485,700
	95	77.4	281.4	1,364,900
	100	76.4	280.1	1,260,700
	105	75.3	278.7	1,170,000
	110	74.2	277.2	1,090,200
	115	73.2	275.6	1,019,500
	120	72.1	273.9	956,400
	125	71.0	272.1	899,800
	130	69.9	270.2	848,700
	135	68.8	268.2	802,400
	140	67.6	266.0	760,100
	145	66.5	263.8	721,500
328	150	65.4	261.4	686,000
	155	64.2	258.9	653,200
	160	63.1	256.3	623,000
	165	61.9	253.5	594,900
	170	60.7	250.6	568,800
	175	59.5	247.6	544,500
	180	58.3	244.4	521,700
	185	57.0	241.0	500,400
	190	55.8	237.5	480,400
	195	54.5	233.9	461,600
	200	53.2	230.0	443,900
	205	51.9	226.0	427,100
	210	50.5	221.8	411,300
	215	49.1	217.3	396,300
	220	47.7	212.7	382,100
	225	46.3	207.8	368,600
	230	44.8	202.6	355,800
	235	43.3	197.2	343,600
	240	41.7	191.5	331,900
	245	40.1	185.4	320,800
353	250	38.4	179.0	310,200
	255	36.7	172.2	300,000
	260	34.9	164.9	290,300
	265	32.9	157.0	281,000
	270	30.9	148.6	272,000
	275	28.8	139.3	263,400
	80	81.4	310.1	1,757,900*
	85	80.4	309.1	1,617,700*
	90	79.5	308.1	1,476,900
	95	78.5	307.0	1,356,000
	100	77.5	305.9	1,251,700
	105	76.6	304.6	1,160,900
	110	75.6	303.2	1,081,100
	115	74.6	301.8	1,010,300
	120	73.6	300.3	947,200
	125	72.6	298.6	890,600
	130	71.6	296.9	839,500
	135	70.6	295.0	793,100
	140	69.6	293.1	750,900
	145	68.6	291.1	712,200
	150	67.5	288.9	676,700
	155	66.5	286.7	643,900
	160	65.5	284.3	613,700
378	165	64.4	281.8	585,600
	170	63.3	279.2	559,500
	175	62.3	276.5	535,100
	180	61.2	273.7	512,400
	185	60.1	270.7	491,000
	190	59.0	267.6	471,000
	195	57.8	264.4	452,200
	200	56.7	261.0	434,500
	205	55.5	257.5	417,800
	210	54.4	253.9	401,900
	215	53.2	250.0	387,000
	220	52.0	246.0	372,800
	225	50.7	241.8	359,300
	80	81.2	334.5	1,522,500*
	90	80.3	333.6	1,410,500*
	95	79.4	332.6	1,314,200*
	100	78.5	331.5	1,230,500*
	105	77.6	330.4	1,154,200
	110	76.7	329.1	1,074,300
	115	75.8	327.8	1,003,600
	120	74.9	326.4	940,500
	125	74.0	324.9	883,800
	130	73.1	323.3	832,700
	135	72.1	321.6	786,300
	140	71.2	319.8	744,000
	145	70.3	318.0	705,300
	150	69.3	316.0	669,800
	155	68.4	314.0	637,000
403	160	67.5	311.8	606,800
	165	66.5	309.6	578,700
	170	65.5	307.2	552,600
	175	64.6	304.8	528,200
	180	63.6	302.2	505,400
	185	62.6	299.6	484,100
	190	61.6	296.8	464,100
	195	60.6	293.9	445,300
	200	59.6	290.9	427,600
	205	58.5	287.7	410,800
	210	57.5	284.5	395,000
	215	56.4	281.1	380,000
	220	55.4	277.5	365,800
	225	54.3	273.8	352,300
	230	53.2	270.0	339,500
	235	52.1	266.0	327,300
	240	50.9	261.9	315,700
	245	49.8	257.6	304,600
	250	48.6	253.1	294,000
	255	47.4	248.4	283,800
	260	46.2	243.5	274,100
	265	44.9	238.4	264,800
	270	43.7	233.0	255,900
	275	42.3	227.5	247,300
	280	41.0	221.6	239,100
	285	39.6	215.5	231,100
	290	38.2	209.0	223,500
	295	36.7	202.2	216,200
	300	35.2	195.0	209,100
	305	33.6	187.4	202,300
	310	31.9	179.2	195,700
	315	30.2	170.5	189,300
	320	28.3	161.1	183,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
278	75	81.7	285.6	1,764,000*
	80	80.6	284.6	1,764,000*
	85	79.6	283.6	1,627,500
	90	78.5	282.6	1,485,700
	95	77.4	281.4	1,364,900
	100	76.4	280.1	1,260,700
	105	75.3	278.7	1,170,000
	110	74.2	277.2	1,090,200
	115	73.2	275.6	1,019,500
	120	72.1	273.9	956,400
	125	71.0	272.1	899,800
	130	69.9	270.2	848,700
	135	68.8	268.2	802,400
	140	67.6	266.0	760,100
	145	66.5	263.8	721,500
	150	65.4	261.4	686,000
	155	64.2	258.9	653,200
	160	63.1	256.3	623,000
	165	61.9	253.5	594,900
	170	60.7	250.6	568,800
303	175	59.5	247.6	544,500
	180	58.3	244.4	521,700
	185	57.0	241.0	500,400
	190	55.8	237.5	480,400
	195	54.5	233.9	461,600
	200	53.2	230.0	44

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360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
353	85	81.8	359.9	1,435,200*
	90	81.0	359.0	1,328,400*
	95	80.2	358.1	1,236,900*
	100	79.3	357.1	1,157,300*
	105	78.5	356.0	1,087,500*
	110	77.7	354.9	1,025,600*
	115	76.8	353.7	970,200*
	120	76.0	352.3	920,300*
	125	75.1	351.0	874,700
	130	74.3	349.5	823,500
	135	73.5	347.9	777,100
	140	72.6	346.3	734,800
	145	71.7	344.6	696,100
	150	70.9	342.8	660,500
	155	70.0	340.9	627,800
	160	69.1	338.9	597,500
	165	68.3	336.9	569,400
	170	67.4	334.7	543,200
	175	66.5	332.5	518,900
	180	65.6	330.2	496,100
	185	64.7	327.7	474,800
	190	63.8	325.2	454,800
	195	62.9	322.6	436,000
	200	61.9	319.8	418,200
	205	61.0	317.0	401,500
	210	60.1	314.0	385,700
	215	59.1	311.0	370,700
	220	58.2	307.8	356,500
	225	57.2	304.5	343,000
	230	56.2	301.1	330,100
	235	55.2	297.5	317,900
	240	54.2	293.8	306,300
	245	53.2	290.0	295,200
	250	52.1	286.1	284,600
	255	51.1	281.9	274,400
	260	50.0	277.7	264,700
	265	48.9	273.2	255,400
	270	47.8	268.6	246,500
	275	46.7	263.8	237,900
	280	45.6	258.8	229,700
	285	44.4	253.6	221,800
	290	43.2	248.2	214,200
	295	42.0	242.6	206,800
	300	40.7	236.6	199,800
	305	39.4	230.5	193,000
	310	38.1	224.0	186,400
	315	36.7	217.2	180,000
	320	35.3	210.0	173,900
	325	33.8	202.5	167,900
	330	32.3	194.5	162,200
	335	30.7	186.0	156,600
	340	29.0	176.9	151,200
	345	27.2	167.1	146,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
378	90	81.6	384.4	1,258,600*
	95	80.8	383.5	1,170,700*
	100	80.0	382.6	1,094,400*
	105	79.3	381.6	1,027,600*
	110	78.5	380.5	968,400*
	115	77.7	379.4	915,500*
	120	76.9	378.2	868,000*
	125	76.2	376.9	825,000*
	130	75.4	375.5	785,700*
	135	74.6	374.1	749,800*
	140	73.8	372.6	716,800*
	145	73.0	371.0	686,200*
	150	72.2	369.3	653,400
	155	71.4	367.6	620,600
	160	70.6	365.8	590,300
	165	69.8	363.8	562,200
	170	69.0	361.9	536,000
	175	68.1	359.8	511,700
	180	67.3	357.6	488,900
	185	66.5	355.4	467,600
	190	65.6	353.1	447,500
	195	64.8	350.7	428,700
	200	64.0	348.2	411,000
	205	63.1	345.6	394,200
	210	62.2	342.9	378,400
	215	61.4	340.1	363,400
	220	60.5	337.2	349,200
	225	59.6	334.2	335,700
	230	58.7	331.1	322,900
	235	57.8	327.9	310,700
	240	56.9	324.5	299,000
	245	56.0	321.1	287,900
	250	55.1	317.5	277,300
	255	54.1	313.8	267,200
	260	53.2	310.0	257,500
	265	52.2	306.1	248,200
	270	51.2	302.0	239,200
	275	50.2	297.7	230,700
	280	49.2	293.3	222,400
	285	48.2	288.8	214,500
	290	47.2	284.1	206,900
	295	46.1	279.2	199,600
	300	45.0	274.1	192,500
	305	43.9	268.8	185,700
	310	42.8	263.3	179,200
	315	41.6	257.6	172,800
	320	40.5	251.7	166,700
	325	39.3	245.5	160,800
	330	38.0	239.0	155,000
	335	36.7	232.2	149,500
	340	35.4	225.1	144,100
	345	34.0	217.6	138,900
	350	32.6	209.7	133,800
	355	31.2	201.3	128,900
	360	29.6	192.4	124,200
	365	28.0	182.9	119,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
403	95	81.4	408.9	1,108,400*
	100	80.7	408.0	1,034,800*
	105	79.9	407.1	970,300*
	110	79.2	406.1	913,300*
	115	78.5	405.0	862,500*
	120	77.8	403.9	816,900*
	125	77.0	402.7	775,600*
	130	76.3	401.4	738,000*
	135	75.6	400.1	703,700*
	140	74.8	398.7	672,100*
	145	74.1	397.2	643,000*
	150	73.3	395.6	615,900*
	155	72.6	394.0	590,800*
	160	71.8	392.3	567,300*
	165	71.1	390.5	545,300*
	170	70.3	388.7	524,600*
	175	69.6	386.8	502,400
	180	68.8	384.8	479,600
	185	68.0	382.7	458,300
	190	67.3	380.6	438,200
	195	66.5	378.3	419,400
	200	65.7	376.0	401,700
	205	64.9	373.6	384,900
	210	64.1	371.1	369,100
	215	63.3	368.5	354,100
	220	62.5	365.9	339,900
	225	61.7	363.1	326,400
	230	60.9	360.3	313,500
	235	60.1	357.3	301,300
	240	59.2	354.3	289,700
	245	58.4	351.2	278,600
	250	57.5	347.9	268,000
	255	56.7	344.6	257,800
	260	55.8	341.1	248,100
	265	54.9	337.5	238,800
	270	54.1	333.8	229,900
	275	53.2	330.0	221,300
	280	52.3	326.1	213,100
	285	51.3	322.0	205,200
	290	50.4	317.8	197,500
	295	49.5	313.5	190,200
	300	48.5	309.0	183,200
	305	47.5	304.3	176,400
	310	46.6	299.5	169,800
	315	45.6	294.5	163,400
	320	44.5	289.4	157,300
	325	43.5	284.0	151,400
	330	42.4	278.5	145,700
	335	41.4	272.7	140,100
	340	40.2	266.7	134,700
	345	39.1	260.5	129,500
	350	37.9	254.0	124,500
	355	36.7	247.2	119,600
	360	35.5	240.1	114,900
	365	34.2	232.7	110,200
	370	32.9	224.9	105,800
	375	31.5	216.6	101,400