

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

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 (*).

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. 173398 OR NO. 177315 AND WIRE ROPE SPECIFICATION CHART NO. 7683-C. 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 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 30 MPH. 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 MAST WITH 20 PART OR 32 PART BOOM HOIST REEVING OR NO. 75A MAST WITH 32 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, 52,000 LB. CRANE COUNTERWEIGHT AND 1,049,600 LB. AUXILIARY COUNTERWEIGHT.

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

JIB AND ALL JIB HARDWARE 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
150	55	80.7	159.0	1,800,000*
	60	78.7	158.0	1,764,000*
	65	76.8	156.9	1,531,200
	70	74.8	155.5	1,343,000
	75	72.8	154.0	1,194,400
	80	70.8	152.2	1,073,900
	85	68.7	150.3	974,400
	90	66.6	148.1	890,800
	95	64.5	145.7	819,500
	100	62.4	143.1	758,000
	105	60.2	140.3	704,500
	110	57.9	137.1	657,400
	115	55.6	133.7	615,700
	120	53.2	130.0	578,500
	125	50.8	126.0	545,100
	130	48.2	121.5	514,900
	135	45.6	116.7	487,600
	140	42.8	111.4	462,600
	145	39.8	105.5	439,800
	150	36.7	98.9	418,800
	155	33.2	91.4	399,500
	160	29.5	82.9	381,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
175	55	82.0	184.4	1,587,800*
	60	80.4	183.5	1,587,800*
	65	78.7	182.5	1,527,000
	70	77.0	181.4	1,338,800
	75	75.3	180.1	1,190,200
	80	73.6	178.6	1,069,700
	85	71.9	177.0	970,200
	90	70.2	175.2	886,600
	95	68.4	173.2	815,300
	100	66.6	171.0	753,800
	105	64.8	168.7	700,300
	110	63.0	166.1	653,200
	115	61.1	163.4	611,500
	120	59.2	160.4	574,300
	125	57.2	157.2	540,900
	130	55.3	153.7	510,700
	135	53.2	150.0	483,400
	140	51.1	146.0	458,500
	145	49.0	141.7	435,700
	150	46.7	137.0	414,700
	155	44.4	132.0	395,400
	160	42.0	126.5	377,500
	165	39.4	120.5	361,000
	170	36.7	113.9	345,600
	175	33.8	106.6	331,200
	180	30.6	98.4	317,700
	185	27.2	89.0	305,100

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
200	60	81.6	208.9	1,444,700*
	65	80.1	208.0	1,435,100*
	70	78.7	207.0	1,334,200
	75	77.2	205.9	1,185,500
	80	75.7	204.6	1,065,100
	85	74.2	203.2	965,500
	90	72.7	201.6	881,900
	95	71.2	199.9	810,600
	100	69.7	198.1	749,100
	105	68.1	196.1	695,500
	110	66.6	193.9	648,500
	115	65.0	191.6	606,800
	120	63.4	189.1	569,500
	125	61.8	186.4	536,200
	130	60.1	183.6	506,000
	135	58.4	180.5	478,700
	140	56.7	177.2	453,700
	145	55.0	173.7	430,900
	150	53.2	170.0	410,000
	155	51.4	166.0	390,700
	160	49.5	161.8	372,800
	165	47.6	157.3	356,300
	170	45.6	152.4	340,900
	175	43.5	147.2	326,500
	180	41.3	141.6	313,100
	185	39.1	135.5	300,500
	190	36.7	128.9	288,700
	195	34.2	121.7	277,600
	200	31.5	113.7	267,100
	205	28.6	104.8	257,200

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,049,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
225	65	81.2	233.4	1,278,000*
	70	79.9	232.5	1,263,900*
	75	78.6	231.5	1,181,600
	80	77.3	230.4	1,061,200
	85	76.0	229.2	961,600
	90	74.7	227.8	878,000
	95	73.4	226.3	806,700
	100	72.0	224.7	745,200
	105	70.7	222.9	691,600
	110	69.3	221.0	644,600
	115	68.0	219.0	602,800
	120	66.6	216.8	565,600
	125	65.2	214.5	532,200
	130	63.7	212.1	502,100
	135	62.3	209.4	474,700
220	140	60.8	206.7	449,800
	145	59.4	203.7	427,000
	150	57.9	200.6	406,100
	155	56.3	197.3	386,800
	160	54.8	193.7	368,900
	165	53.2	190.0	352,400
	170	51.6	186.1	337,000
	175	49.9	181.9	322,600
	180	48.2	177.4	309,200
	185	46.5	172.7	296,600
	190	44.7	167.7	284,800
	195	42.8	162.3	273,700
	200	40.9	156.6	263,300
	205	38.8	150.5	253,400
	210	36.7	143.9	244,100
215	215	34.5	136.7	235,200
	220	32.1	128.9	226,900
	225	29.6	120.3	218,900
210	70	81.0	257.9	1,132,100*
	75	79.8	257.0	1,120,600*
	80	78.6	256.0	1,056,400
	85	77.4	254.9	956,800
	90	76.3	253.7	873,200
	95	75.1	252.3	801,900
	100	73.9	250.9	740,400
	105	72.7	249.3	686,800
	110	71.5	247.7	639,700
	115	70.3	245.9	598,000
	120	69.0	244.0	560,800
	125	67.8	241.9	527,400
	130	66.6	239.8	497,200
	135	65.3	237.5	469,900
	140	64.0	235.0	445,000
205	145	62.7	232.4	422,200
	150	61.4	229.7	401,200
	155	60.1	226.9	381,900
	160	58.8	223.8	364,100
	165	57.4	220.6	347,500
	170	56.0	217.3	332,100
	175	54.6	213.7	317,800
	180	53.2	210.0	304,300
	185	51.7	206.1	291,800
	190	50.2	201.9	280,000
	195	48.7	197.6	268,900
	200	47.2	193.0	258,400
	205	45.6	188.1	248,600
	210	43.9	183.0	239,200
	215	42.2	177.5	230,400
200	220	40.5	171.7	222,000
	225	38.6	165.5	214,100
	230	36.7	158.9	206,500
	235	34.8	151.8	199,300
	240	32.7	144.1	192,500
	245	30.4	135.8	185,900
	250	28.0	126.6	179,700

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
275	70	81.8	283.3	1,016,400*
	75	80.7	282.4	1,007,300*
	80	79.7	281.5	997,900*
	85	78.6	280.5	953,200
	90	77.5	279.4	869,500
	95	76.5	278.2	798,200
	100	75.4	276.9	736,700
	105	74.3	275.5	683,100
	110	73.2	274.0	636,000
	115	72.1	272.4	594,300
	120	71.0	270.7	557,100
	125	69.9	268.8	523,700
	130	68.8	266.9	493,600
	135	67.7	264.8	466,200
	140	66.5	262.7	441,300
270	145	65.4	260.4	418,500
	150	64.2	258.0	397,500
	155	63.1	255.4	378,200
	160	61.9	252.8	360,400
	165	60.7	250.0	343,800
	170	59.5	247.0	328,400
	175	58.3	243.9	314,100
	180	57.0	240.7	300,700
	185	55.8	237.3	288,100
	190	54.5	233.7	276,300
	195	53.2	230.0	265,200
	200	51.9	226.1	254,800
	205	50.5	222.0	244,900
	210	49.1	217.7	235,600
	215	47.7	213.2	226,800
265	220	46.3	208.4	218,400
	225	44.8	203.4	210,400
	230	43.3	198.2	202,900
	235	41.8	192.6	195,700
	240	40.1	186.7	188,800
	245	38.5	180.5	182,300
	250	36.8	173.9	176,000
	255	35.0	166.8	170,100
	260	33.1	159.2	164,300
	265	31.1	151.1	158,900
	270	29.0	142.2	153,600
300	75	81.5	307.8	899,400*
	80	80.5	306.9	890,800*
	85	79.6	306.0	873,600*
	90	78.6	305.0	856,400*
	95	77.6	303.9	793,300
	100	76.6	302.7	731,800
	105	75.7	301.4	678,200
	110	74.7	300.1	631,100
	115	73.7	298.6	589,400
	120	72.7	297.0	552,100
	125	71.7	295.4	518,700
	130	70.6	293.6	488,600
	135	69.6	291.8	461,200
	140	68.6	289.8	436,300
	145	67.6	287.7	413,500
305	150	66.5	285.6	392,600
	155	65.5	283.3	373,200
	160	64.4	280.9	355,400
	165	63.4	278.4	338,800
	170	62.3	275.8	323,400
	175	61.2	273.0	309,100
	180	60.1	270.2	295,700
	185	59.0	267.2	283,100
	190	57.8	264.0	271,300
	195	56.7	260.7	260,200
	200	55.5	257.3	249,800
	205	54.4	253.7	239,900
	210	53.2	250.0	230,600
	215	52.0	246.1	221,800

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
300	220	50.7	242.0	213,400
	225	49.5	237.8	205,500
	230	48.2	233.3	197,900
	235	46.9	228.7	190,700
	240	45.6	223.8	183,900
	245	44.2	218.7	177,300
	250	42.8	213.3	171,100
	255	41.4	207.7	165,100
	260	39.9	201.8	159,400
	265	38.3	195.5	153,900
	270	36.8	188.9	148,600
	275	35.1	181.9	143,600
	280	33.4	174.4	138,800
	285	31.6	166.4	134,100
	290	29.7	157.8	129,600
	295	27.7	148.4	125,300
325	80	81.3	332.3	784,500*
	85	80.4	331.4	770,300*
	90	79.5	330.5	755,900*
	95	78.6	329.5	741,300*
	100	77.7	328.4	726,600*
	105	76.8	327.2	674,200
	110	75.9	326.0	627,100
	115	75.0	324.6	585,400
	120	74.0	323.2	548,200
	125	73.1	321.7	514,800
	130	72.2	320.1	484,600
	135	71.3	318.4	457,300
	140	70.3	316.6	432,200
	145	69.4	314.7	409,500
	150	68.4	312.7	388,600
350	155	67.5	310.7	369,300
	160	66.5	308.5	351,400
	165	65.6	306.2	334,900
	170	64.6	303.8	319,500
	175	63.6	301.4	305,100
	180	62.6	298.8	291,700
	185	61.6	296.1	279,100
	190	60.6	293.3	267,300
	195	59.6	290.3	256,300
	200	58.5	287.3	245,800
	205	57.5	284.1	236,000
	210	56.4	280.8	226,600
	215	55.4	277.3	217,800
	220	54.3	273.7	209,400
	225	53.2	270.0	201,500
375	230	52.1	266.1	193,900
	235	50.9	262.1	186,800
	240	49.8	257.9	179,900
	245	48.6	253.5	173,400
	250	47.4	248.9	167,100
	255	46.2	244.1	161,100
	260	44.9	239.1	155,400
	265	43.7	233.9	150,000
	270	42.4	228.5	144,700
	275	41.0	222.8	139,700
	280	39.7	216.8	134,800
	285	38.2	210.5	130,200
	290	36.8	203.9	125,700
	295	35.3	196.9	121,400
	300	33.7	189.5	117,200
400	305	32.0	181.6	113,200
	310	30.3	173.2	109,300
	315	28.5	164.1	105,600

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75 OR NO. 75A

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

1,049,600 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
350	80	81.9	357.6	695,500*
	85	81.1	356.8	683,400*
	90	80.2	355.9	671,000*
	95	79.4	355.0	658,400*
	100	78.6	354.0	645,600*
	105	77.7	352.9	632,700*
	110	76.9	351.7	619,700*
	115	76.1	350.5	580,400
	120	75.2	349.2	543,200
	125	74.4	347.8	509,800
	130	73.5	346.3	479,600
	135	72.6	344.7	452,200
	140	71.8	343.1	427,300
	145	70.9	341.4	404,500
	150	70.0	339.5	383,500
	155	69.2	337.6	364,200
	160	68.3	335.7	346,400
	165	67.4	333.6	329,800
	170	66.5	331.4	314,400
	175	65.6	329.1	300,100
	180	64.7	326.8	286,600
	185	63.8	324.3	274,100
	190	62.9	321.8	262,300
	195	62.0	319.1	251,200
	200	61.0	316.3	240,800
	205	60.1	313.5	230,900
	210	59.1	310.5	221,600
	215	58.2	307.4	212,700
	220	57.2	304.2	204,400
	225	56.2	300.8	196,400
	230	55.2	297.3	188,900
	235	54.2	293.7	181,700
	240	53.2	290.0	174,800
	245	52.1	286.1	168,300
	250	51.1	282.1	162,100
	255	50.0	277.9	156,100
	260	48.9	273.6	150,400
	265	47.8	269.1	144,900
	270	46.7	264.4	139,600
	275	45.6	259.5	134,600
	280	44.4	254.4	129,800
	285	43.2	249.1	125,100
	290	42.0	243.6	120,600
	295	40.7	237.9	116,300
	300	39.5	231.8	112,200
	305	38.1	225.5	108,200
	310	36.8	218.9	104,300
	315	35.4	211.9	100,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
375	85	81.7	382.1	603,600*
	90	80.9	381.3	593,100*
	95	80.1	380.4	582,300*
	100	79.3	379.5	571,300*
	105	78.6	378.5	560,000*
	110	77.8	377.4	548,100*
	115	77.0	376.3	535,700*
	120	76.2	375.0	523,000*
	125	75.4	373.7	505,600
	130	74.6	372.4	475,500
	135	73.8	370.9	448,100
	140	73.0	369.4	423,200
	145	72.2	367.8	400,300
	150	71.4	366.1	379,400
	155	70.6	364.3	360,100
	160	69.8	362.5	342,200
	165	69.0	360.6	325,700
	170	68.2	358.6	310,300
	175	67.3	356.5	295,900
	180	66.5	354.3	282,500
	185	65.7	352.1	269,900
	190	64.8	349.7	258,100
	195	64.0	347.3	247,000
	200	63.1	344.7	236,600
	205	62.3	342.1	226,700
	210	61.4	339.4	217,400
	215	60.5	336.6	208,600
	220	59.6	333.6	200,200
	225	58.7	330.6	192,300
	230	57.8	327.5	184,700
	235	56.9	324.2	177,500
	240	56.0	320.8	170,700
	245	55.1	317.4	164,100
	250	54.1	313.8	157,900
	255	53.2	310.0	151,900
	260	52.2	306.1	146,200
	265	51.2	302.1	140,700
	270	50.2	298.0	135,500
	275	49.2	293.7	130,400
	280	48.2	289.2	125,600
	285	47.2	284.6	121,000
	290	46.1	279.8	116,500
	295	45.0	274.9	112,200
	300	43.9	269.7	108,000
	305	42.8	264.3	104,000
	310	41.7	258.7	100,200

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
400	90	81.5	406.6	516,200*
	95	80.8	405.8	512,000*
	100	80.0	404.9	501,800*
	105	79.3	404.0	490,800*
	110	78.6	403.0	479,300*
	115	77.8	401.9	467,400*
	120	77.1	400.8	455,500*
	125	76.4	399.5	443,700*
	130	75.6	398.3	431,900*
	135	74.9	396.9	420,300*
	140	74.1	395.5	408,800*
	145	73.4	394.0	395,300
	150	72.6	392.4	374,300
	155	71.9	390.8	355,000
	160	71.1	389.1	337,100
	165	70.4	387.3	320,600
	170	69.6	385.4	305,200
	175	68.8	383.5	290,800
	180	68.1	381.5	277,400
	185	67.3	379.4	264,800
	190	66.5	377.2	253,000
	195	65.7	375.0	241,900
	200	64.9	372.6	231,500
	205	64.1	370.2	221,600
	210	63.3	367.7	212,300
	215	62.5	365.1	203,500
	220	61.7	362.4	195,100
	225	60.9	359.6	187,200
	230	60.1	356.8	179,600
	235	59.2	353.8	172,400
	240	58.4	350.7	165,600
	245	57.5	347.5	159,000
	250	56.7	344.3	152,800
	255	55.8	340.9	146,800
	260	54.9	337.4	141,100
	265	54.1	333.8	135,600
	270	53.2	330.0	130,400
	275	52.3	326.2	125,400
	280	51.3	322.2	120,500
	285	50.4	318.0	115,900
	290	49.5	313.8	111,400
	295	48.5	309.4	107,100
	300	47.6	304.8	102,900