

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

**BOOM NO. 72 WITH 882 TON BOOM POINT
MAST NO. 75
60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS
52,000 LB. CRANE COUNTERWEIGHT
1,753,600 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 SHEAVES, IS CONSIDERED PART OF THE 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 IN WINDS UP TO 35 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 TO APPROXIMATELY 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS 35 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, 32 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, 52,000 LB. CRANE COUNTERWEIGHT AND 1,753,600 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM LENGTH
LIFTED UNASSISTED = 253'
LOAD BLOCK ON GROUND AT START.

CONSULT JIB CHART FOR JIB CAPACITIES. JIB 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	1,623,700
	85	70.7	153.6	1,473,600
	90	68.6	151.5	1,347,500
	95	66.6	149.2	1,240,000
	100	64.5	146.7	1,147,300
	105	62.3	143.9	1,066,500
	110	60.2	140.8	995,500
	115	57.9	137.5	932,600
	120	55.6	133.9	876,400
	125	53.2	130.0	826,000
	130	50.8	125.8	780,500
	135	48.2	121.1	739,200
140	45.5	116.0	701,500	
145	42.7	110.4	667,000	
150	39.7	104.1	635,400	
155	36.5	97.1	606,100	
160	33.0	89.2	579,100	
165	29.1	80.0	553,900	

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	1,615,500
	85	73.5	180.2	1,465,300
	90	71.8	178.5	1,339,100
	95	70.1	176.5	1,231,600
	100	68.3	174.4	1,138,800
	105	66.6	172.1	1,058,000
	110	64.8	169.6	987,000
	115	62.9	166.9	924,100
	120	61.1	164.0	867,900
	125	59.2	160.9	817,500
	130	57.2	157.5	772,000
	135	55.3	153.9	730,700
	140	53.2	150.0	693,000
	145	51.1	145.8	658,600
	150	48.9	141.3	626,900
155	46.7	136.4	597,700	
160	44.4	131.1	570,800	
165	41.9	125.4	545,700	
170	39.3	119.1	522,400	
175	36.6	112.2	500,600	
180	33.6	104.4	480,300	
185	30.4	95.7	461,200	

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	1,609,400
	85	75.6	206.4	1,459,200
	90	74.1	204.9	1,332,900
	95	72.6	203.2	1,225,300
	100	71.1	201.4	1,132,600
	105	69.6	199.4	1,051,700
	110	68.1	197.3	980,700
	115	66.5	195.0	917,700
	120	65.0	192.6	861,600
	125	63.4	189.9	811,100
	130	61.8	187.1	765,600
	135	60.1	184.1	724,300
	140	58.4	180.9	686,700
	145	56.7	177.5	652,300
	150	55.0	173.9	620,600
155	53.2	170.0	591,400	
160	51.4	165.9	564,500	
165	49.5	161.5	539,400	
170	47.6	156.8	516,200	
175	45.5	151.7	494,500	
180	43.5	146.3	474,200	
185	41.3	140.4	455,100	
190	39.0	134.1	437,300	
195	36.6	127.2	420,500	
200	34.1	119.6	404,600	
205	31.3	111.2	389,600	
210	28.3	101.8	375,400	

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	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	1,600,600
	85	77.2	232.3	1,450,300
	90	75.9	231.0	1,324,000
	95	74.6	229.5	1,216,400
	100	73.3	227.9	1,123,600
	105	72.0	226.2	1,042,700
	110	70.6	224.3	971,600
	115	69.3	222.3	908,600
	120	67.9	220.2	852,400
	125	66.5	217.9	802,000
	130	65.1	215.5	756,400
	135	63.7	212.9	715,100
	140	62.3	210.2	677,500
	145	60.8	207.3	643,000
	150	59.4	204.2	611,400
	155	57.9	201.0	582,200
	160	56.3	197.5	555,200
	165	54.8	193.9	530,200
	170	53.2	190.0	506,900
	175	51.6	185.9	485,200
	180	49.9	181.6	464,900
	185	48.2	177.0	445,900
	190	46.4	172.1	428,100
	195	44.6	166.9	411,300
	200	42.8	161.4	395,500
	205	40.8	155.4	380,500
210	38.8	149.0	366,400	
215	36.6	142.2	353,000	
220	34.4	134.7	340,300	
225	32.0	126.6	328,200	
230	29.4	117.5	316,700	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	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	1,591,900
	85	78.5	258.1	1,441,500
	90	77.3	256.9	1,315,100
	95	76.2	255.5	1,207,400
	100	75.0	254.1	1,114,500
	105	73.8	252.6	1,033,600
	110	72.6	250.9	962,500
	115	71.4	249.1	899,500
	120	70.2	247.3	843,200
	125	69.0	245.3	792,800
	130	67.8	243.1	747,200
	135	66.5	240.8	705,900
	140	65.3	238.5	668,200
	145	64.0	235.9	633,800
	150	62.7	233.2	602,100
	155	61.4	230.4	572,900
	160	60.1	227.4	545,900
	165	58.8	224.3	520,900
	170	57.4	221.0	497,600
	175	56.0	217.5	475,900
	180	54.6	213.9	455,600
	185	53.2	210.0	436,600
	190	51.7	206.0	418,800
	195	50.2	201.7	402,000
	200	48.7	197.2	386,200
	205	47.2	192.4	371,200
210	45.6	187.4	357,100	
215	43.9	182.1	343,700	
220	42.2	176.4	331,100	
225	40.4	170.4	319,000	
230	38.6	164.0	307,600	
235	36.7	157.2	296,600	
240	34.6	149.8	286,200	
245	32.5	141.8	276,300	
250	30.2	133.1	266,800	
255	27.8	123.5	257,700	