

MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

M-1200

JIB NO. 182 WITH 82'6" STRUT ON

BOOM NO. 72A

MAST NO. 75A

60' RINGER ATTACHMENT ON SCREW JACK PEDESTALS

52,000 LB. CRANE COUNTERWEIGHT

2,061,200 LB. AUXILIARY COUNTERWEIGHT

360 DEGREE RATING

CAPACITIES FOR VARIOUS BOOM LENGTHS, JIB LENGTH AND JIB 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 JIB POINT SHEAVES, IS CONSIDERED PART OF JIB LOAD. BOOM AND JIB ARE 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. 179395, JIB ASSEMBLY NO. 178341 AND WIRE ROPE SPECIFICATION CHART NO. 7955-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 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. JIB POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF JIB POINT SHAFT.

MACHINE EQUIPPED WITH 60' RINGER ATTACHMENT, 30'9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 150' NO. 75A MAST WITH 36 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, STRAP JIB PENDANTS AND BACKSTAYS, 52,000 LB. CRANE COUNTERWEIGHT, AND 2,061,200 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED	
BOOM LENGTH	JIB NO. 182
303'	50'
LOAD BLOCK ON GROUND AT START.	

LOAD BLOCK, BOOM POINT HANGER FRAME AND UPPER BOOM POINT MUST BE REMOVED FROM MAIN BOOM FOR USE OF THIS CHART.

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

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50 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	10 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
2 0 3	65	85.3	266.1	2,304,900*	65
	70	84.2	265.3	2,265,800*	70
	75	83.1	264.4	2,086,000	75
	80	81.9	263.4	1,868,800	80
	85	80.8	262.3	1,689,200	85
	90	79.6	261.2	1,538,300	90
	95	78.5	259.9	1,409,600	95
	100	77.3	258.5	1,298,500	100
	105	76.2	257.0	1,201,800	105
	110	75.0	255.3	1,116,700	110
	115	73.8	253.6	1,041,300	115
	120	72.6	251.7	974,000	120
	125	71.4	249.8	913,500	125
	130	70.2	247.7	858,900	130
	135	69.0	245.4	809,400	135
	140	67.8	243.1	764,200	140
	145	66.5	240.6	722,800	145
	150	65.3	238.0	684,800	150
	155	64.0	235.2	649,700	155
	160	62.7	232.3	617,200	160
	165	61.4	229.3	587,100	165
	170	60.1	226.0	559,000	170
	175	58.7	222.6	532,900	175
	180	57.4	219.1	508,400	180
	185	56.0	215.3	485,400	185
	190	54.6	211.4	463,800	190
	195	53.1	207.2	443,500	195
	200	51.6	202.8	424,300	200
	210	48.6	193.4	389,000	210
	220	45.3	182.8	357,300	220
	230	41.9	170.9	328,500	230
	240	38.1	157.3	302,300	240
	250	34.0	141.6	278,200	250
	260	29.2	122.8	255,900	260

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		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
2 2 8	65	85.7	291.3	2,236,500*	65
	70	84.7	290.5	2,203,100*	70
	75	83.7	289.7	2,083,900	75
	80	82.7	288.9	1,865,800	80
	85	81.6	287.9	1,685,600	85
	90	80.6	286.8	1,534,000	90
	95	79.5	285.6	1,404,800	95
	100	78.5	284.4	1,293,400	100
	105	77.4	283.0	1,196,300	105
	110	76.4	281.5	1,110,900	110
	115	75.3	280.0	1,035,100	115
	120	74.2	278.3	967,600	120
	125	73.2	276.5	906,900	125
	130	72.1	274.6	852,100	130
	135	71.0	272.6	802,400	135
	140	69.9	270.5	757,000	140
	145	68.8	268.3	715,500	145
	150	67.7	266.0	677,300	150
	155	66.5	263.5	642,100	155
	160	65.4	260.9	609,500	160
	165	64.2	258.2	579,300	165
	170	63.1	255.4	551,200	170
	175	61.9	252.4	524,900	175
	180	60.7	249.3	500,400	180
	185	59.5	246.0	477,300	185
	190	58.2	242.6	455,700	190
	195	57.0	239.0	435,300	195
	200	55.7	235.3	416,100	200
	210	53.1	227.2	380,800	210
	220	50.4	218.4	349,000	220
	230	47.6	208.6	320,200	230
	240	44.6	197.8	294,100	240
	250	41.4	185.8	270,100	250
	260	38.0	172.3	248,100	260
	270	34.3	156.8	227,700	270
	280	30.0	138.7	207,600*	280

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		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
2 5 3	70	85.1	315.8	2,125,600*	70
	75	84.2	315.0	2,080,900	75
	80	83.3	314.2	1,862,100	80
	85	82.3	313.3	1,681,200	85
	90	81.4	312.3	1,529,100	90
	95	80.4	311.3	1,399,500	95
	100	79.5	310.1	1,287,700	100
	105	78.5	308.9	1,190,200	105
	110	77.5	307.5	1,104,500	110
	115	76.6	306.1	1,028,600	115
	120	75.6	304.6	960,800	120
	125	74.6	302.9	899,900	125
	130	73.6	301.2	844,900	130
	135	72.6	299.4	795,000	135
	140	71.6	297.5	749,500	140
	145	70.6	295.5	707,900	145
	150	69.6	293.4	669,600	150
	155	68.6	291.2	634,300	155
	160	67.6	288.9	601,600	160
	165	66.5	286.4	571,300	165
	170	65.5	283.9	543,000	170
	175	64.4	281.2	516,700	175
	180	63.4	278.4	492,100	180
	185	62.3	275.5	469,000	185
	190	61.2	272.5	447,300	190
	195	60.1	269.3	426,900	195
	200	59.0	266.0	407,600	200
	210	56.7	259.0	372,200	210
	220	54.3	251.3	340,400	220
	230	51.9	242.9	311,600	230
	240	49.4	233.8	285,500	240
	250	46.7	223.8	261,600	250
	260	44.0	212.9	239,600	260
	270	41.0	200.8	219,400	270
	280	37.9	187.2	197,400*	280
	290	34.5	171.9	176,500*	290
	300	30.7	154.3	156,900*	300

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		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
2 7 8	70	85.5	341.0	2,027,100*	70
	75	84.6	340.3	1,987,100*	75
	80	83.8	339.5	1,859,300	80
	85	82.9	338.7	1,678,100	85
	90	82.0	337.8	1,525,800	90
	95	81.1	336.8	1,396,000	95
	100	80.3	335.7	1,284,000	100
	105	79.4	334.6	1,186,400	105
	110	78.5	333.3	1,100,500	110
	115	77.6	332.0	1,024,500	115
	120	76.7	330.6	956,600	120
	125	75.8	329.2	895,600	125
	130	74.9	327.6	840,600	130
	135	74.0	325.9	790,600	135
	140	73.1	324.2	745,100	140
	145	72.2	322.3	703,400	145
	150	71.2	320.4	665,000	150
	155	70.3	318.4	629,700	155
	160	69.4	316.3	597,000	160
	165	68.4	314.1	566,600	165
	170	67.5	311.8	538,400	170
	175	66.5	309.3	512,000	175
	180	65.5	306.8	487,400	180
	185	64.6	304.2	464,300	185
	190	63.6	301.5	442,600	190
	195	62.6	298.6	422,200	195
	200	61.6	295.7	402,900	200
	210	59.6	289.4	367,500	210
	220	57.5	282.5	335,700	220
	230	55.3	275.2	306,900	230
	240	53.1	267.2	280,800	240
	250	50.8	258.6	257,000	250
	260	48.5	249.2	235,100	260
	270	46.0	239.0	214,400*	270
	280	43.4	227.9	192,200*	280
	290	40.7	215.7	171,500*	290
	300	37.8	202.2	152,200*	300
	310	34.7	187.1	134,100*	310
	320	31.3	169.9	117,000*	320
	330	27.4	149.9	100,800*	330

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		BOOM ANG. DEG.	JIB POINT ELEV. FEET	JIB CAPACITY POUNDS	
303	70	85.8	366.1	1,857,400*	70
	75	85.0	365.5	1,825,200*	75
	80	84.2	364.8	1,790,200*	80
	85	83.4	364.0	1,672,800	85
	90	82.6	363.2	1,520,000	90
	95	81.8	362.3	1,389,800	95
	100	81.0	361.3	1,277,500	100
	105	80.1	360.2	1,179,600	105
	110	79.3	359.1	1,093,500	110
	115	78.5	357.8	1,017,200	115
	120	77.7	356.5	949,100	120
	125	76.8	355.2	888,000	125
	130	76.0	353.7	832,800	130
	135	75.2	352.2	782,700	135
	140	74.3	350.6	737,000	140
	145	73.5	348.9	695,200	145
	150	72.6	347.1	656,800	150
	155	71.8	345.3	621,400	155
	160	70.9	343.3	588,600	160
	165	70.0	341.3	558,200	165
	170	69.2	339.2	529,800	170
	175	68.3	337.0	503,400	175
	180	67.4	334.7	478,700	180
	185	66.5	332.3	455,600	185
	190	65.6	329.8	433,800	190
	195	64.7	327.2	413,400	195
	200	63.8	324.5	394,100	200
	210	61.9	318.8	358,600	210
	220	60.1	312.6	326,800	220
	230	58.1	306.0	298,000	230
	240	56.2	298.9	271,800	240
	250	54.2	291.3	248,000	250
	260	52.1	283.0	226,100	260
	270	49.9	274.2	203,000*	270
	280	47.7	264.6	180,800*	280
	290	45.4	254.2	160,200*	290
	300	43.0	243.0	141,000*	300
	310	40.4	230.7	123,000*	310
	320	37.7	217.2	106,100*	320