

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 65 WITH TOP
OFFSET 4-1/2 DEGREES
60' RINGER ATTACHMENT ON
BLOCKING OR PEDESTALS
123,000 LB. CRANE COUNTERWEIGHT
889,300 LB. AUXILIARY COUNTERWEIGHT
360 DEGREE RATING

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 4
RINGER SERIES 3

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 CAPACITIES FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE ARE 44,000 LBS. FOR 1-1/4" WIRE ROPE, 45,000 LBS. FOR 1-3/8" WIRE ROPE AND 50,000 LBS. FOR 1-1/2" OR 1-5/8" WIRE ROPE. CAPACITIES FOR TWO PART LINE ARE 88,000 LBS. FOR 1-1/4" WIRE ROPE, 90,000 LBS. FOR 1-3/8" WIRE ROPE AND 100,000 LBS. FOR 1-1/2" OR 1-5/8" WIRE ROPE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT 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 ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH ROLLER PATH LEVEL WITHIN A TOLERANCE OF 1-1/4" IN 60' AND PROPERLY SUPPORTED. REFER TO RIGGING NO. 66184 AND WIRE ROPE SPECIFICATION CHART NO. 7307-A OR NO. 7357-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.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS THE 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, 30'5" CRAWLERS, 60" TREADS, 33' RETRACTABLE GANTRY, 130' MAST, 18 PART BOOM HOIST REEVING, EIGHT 1-3/8" BOOM PENDANTS, 123,000 LB. CRANE COUNTERWEIGHT (120,000 LBS. WITH COUNTERWEIGHT ASSEMBLY NO. 49667) AND 889,300 LB. AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM LENGTH LIFTED UNASSISTED
IS 400'
LOAD BLOCK, HOOK AND WEIGHT BALL ON
GROUND AT START.
JIB IS NOT TO BE USED ON AN OFFSET TOP.

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	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
220	65	82.2	225.1	836,700*	220	205	38.5	140.1	269,500*	240	175	54.0	198.5	347,500
	70	80.9	224.2	832,000*		210	36.3	133.2	256,400*		180	52.5	194.6	333,900
	75	79.5	223.2	828,100*		215	33.9	125.6	243,800*		185	51.0	190.5	321,200
	80	78.2	222.1	824,900*		220	31.4	117.3	231,700*		190	49.4	186.1	309,300
	85	76.9	220.8	822,300*		225	28.7	108.1	220,000*		195	47.7	181.4	298,100
	90	75.5	219.4	820,200*		230	25.7	97.7	208,500*		200	46.1	176.5	287,500
	95	74.2	217.9	818,600*		235	22.2	85.5	196,900*		205	44.3	171.3	277,600
	100	72.8	216.3	782,100		240	18.2	70.6	182,800*		210	42.5	165.7	267,500*
	105	71.4	214.5	726,900	240	65	82.8	245.3	790,000*		215	40.7	159.8	255,000*
	110	70.0	212.6	678,400		70	81.6	244.5	785,700*		220	38.8	153.4	243,100*
	115	68.6	210.5	635,600		75	80.4	243.6	782,100*		225	36.8	146.6	231,800*
	120	67.2	208.3	597,500		80	79.2	242.6	778,800*		230	34.6	139.3	220,900*
	125	65.7	206.0	563,300		85	78.0	241.4	776,000*		235	32.4	131.3	210,400*
	130	64.3	203.5	532,600		90	76.8	240.2	773,400*		240	30.0	122.5	200,200*
	135	62.8	200.8	504,600		95	75.5	238.8	771,200*		245	27.4	112.8	190,200*
	140	61.3	198.0	479,300		100	74.3	237.3	769,100*		250	24.5	101.8	180,400*
	145	59.8	195.0	456,000		105	73.0	235.7	724,300		255	21.2	89.0	170,500*
	150	58.3	191.8	434,700		110	71.8	234.0	675,900		260	17.3	73.5	158,900*
	155	56.7	188.4	415,100		115	70.5	232.1	633,100	240				
	160	55.1	184.8	397,000		120	69.2	230.1	595,000					
	165	53.4	181.0	380,200		125	67.9	228.0	560,800					
	170	51.8	177.0	364,600		130	66.6	225.8	530,000					
	175	50.1	172.7	350,100		135	65.3	223.4	502,100					
	180	48.3	168.1	336,500		140	63.9	220.8	476,700					
	185	46.5	163.2	323,800		145	62.6	218.2	453,500					
	190	44.6	158.0	311,800		150	61.2	215.3	432,200					
	195	42.7	152.5	297,800*		155	59.8	212.3	412,600					
	200	40.6	146.5	283,300*		160	58.4	209.1	394,500					
						165	57.0	205.8	377,700					
						170	55.5	202.3	362,100					

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS
260	70	82.3	264.8	735,100*	280	185	57.4	240.6	315,900	300	285	32.6	164.5	149,500*
	75	81.2	263.9	732,000*		190	56.2	237.1	303,900		290	30.8	156.0	142,600*
	80	80.0	263.0	729,500*		195	54.9	233.5	292,700		295	28.8	146.9	135,800*
	85	78.9	261.9	727,200*		200	53.6	229.8	282,200		300	26.6	136.8	129,200*
	90	77.8	260.8	725,300*		205	52.3	225.8	272,200		305	24.3	125.7	122,600*
	95	76.7	259.5	723,600*		210	51.0	221.7	262,800		310	21.7	113.3	116,100*
	100	75.5	258.1	722,200*		215	49.7	217.4	253,900		315	18.8	98.8	109,400*
	105	74.4	256.7	721,000*		220	48.3	212.8	245,500		320	15.3	81.3	102,300*
	110	73.2	255.1	673,300		225	46.9	208.0	237,500	320	75	82.8	324.7	580,300*
	115	72.0	253.4	630,500		230	45.4	203.0	229,800		80	81.9	323.9	580,100*
	120	70.9	251.6	592,400		235	43.9	197.7	222,600		85	81.0	323.1	579,800*
	125	69.7	249.7	558,200		240	42.4	192.1	215,700		90	80.1	322.1	579,500*
	130	68.5	247.6	527,400		245	40.8	186.2	208,100*		95	79.2	321.1	579,300*
	135	67.3	245.4	499,500		250	39.2	180.0	198,900*		100	78.3	320.0	579,300*
	140	66.1	243.2	474,100		255	37.5	173.4	190,100*		105	77.4	318.9	579,300*
	145	64.9	240.7	450,900		260	35.7	166.3	181,600*		110	76.4	317.6	579,300*
	150	63.6	238.2	429,600		265	33.9	158.8	173,400*		115	75.5	316.2	579,300*
	155	62.4	235.5	410,000		270	31.9	150.7	165,500*		120	74.6	314.8	579,900*
	160	61.1	232.6	391,800		275	29.8	141.9	157,800*		125	73.7	313.3	550,000
	165	59.8	229.6	375,000		280	27.6	132.2	150,200*		130	72.7	311.7	519,200
	170	58.5	226.5	359,400		285	25.2	121.6	142,800*		135	71.8	310.0	491,300
	175	57.2	223.2	344,900		290	22.5	109.6	135,300*		140	70.8	308.2	465,900
	180	55.9	219.7	331,300		295	19.5	95.7	127,800*		145	69.9	306.3	442,700
	185	54.5	216.1	318,600		300	15.9	78.8	119,900*		150	68.9	304.3	421,400
	190	53.1	212.2	306,700							155	67.9	302.2	401,800
280	195	51.7	208.2	295,500	300	75	82.4	304.5	629,000*		160	66.9	300.0	383,700
	200	50.3	203.9	284,900		80	81.4	303.7	627,900*		165	66.0	297.7	366,900
	205	48.8	199.4	274,900		85	80.4	302.7	627,000*		170	65.0	295.3	351,200
	210	47.3	194.7	265,500		90	79.4	301.8	626,300*	320	175	64.0	292.8	336,700
	215	45.7	189.7	256,600		95	78.5	300.7	625,700*		180	63.0	290.2	323,100
	220	44.1	184.5	248,200		100	77.5	299.5	625,400*		185	61.9	287.4	310,400
	225	42.5	178.9	240,200		105	76.5	298.2	625,300*		190	60.9	284.6	298,500
	230	40.8	173.0	230,400*		110	75.5	296.9	625,300*		195	59.9	281.6	287,300
	235	39.0	166.7	220,000*		115	74.5	295.4	624,700		200	58.8	278.5	276,700
	240	37.1	160.0	210,000*		120	73.5	293.9	586,600		205	57.7	275.3	266,800
	245	35.2	152.8	200,500*		125	72.5	292.2	552,400		210	56.7	271.9	257,400
	250	33.2	145.1	191,200*		130	71.5	290.5	521,600		215	55.6	268.4	248,500
	255	31.0	136.7	182,300*		135	70.5	288.7	493,700		220	54.5	264.8	240,000
	260	28.7	127.5	173,500*		140	69.5	286.7	468,300		225	53.3	261.0	232,000
	265	26.2	117.3	165,000*		145	68.4	284.7	445,100		230	52.2	257.0	224,400
	270	23.5	105.8	156,500*		150	67.4	282.5	423,800		235	51.0	252.9	217,200
	275	20.3	92.4	147,900*		155	66.3	280.3	404,200		240	49.9	248.6	210,300
	280	16.6	76.2	138,400*		160	65.3	277.9	386,000		245	48.7	244.1	203,700
						165	64.2	275.4	369,200		250	47.4	239.5	197,400
						170	63.2	272.8	353,600		255	46.2	234.6	191,400
300	70	82.8	285.0	685,200*		175	62.1	270.1	339,100		260	44.9	229.5	185,600
	75	81.8	284.2	682,500*		180	61.0	267.3	325,500		265	43.6	224.2	180,100
	80	80.8	283.3	680,300*		185	59.9	264.3	312,800		270	42.3	218.6	174,800
	85	79.7	282.4	678,400*		190	58.7	261.2	300,900		275	40.9	212.7	169,400*
	90	78.7	281.3	676,800*		195	57.6	257.9	289,700		280	39.5	206.6	162,100*
	95	77.6	280.1	675,600*		200	56.4	254.5	279,100		285	38.0	200.1	155,100*
	100	76.6	278.9	674,600*		205	55.3	251.0	269,200		290	36.5	193.2	148,300*
	105	75.5	277.5	673,900*		210	54.1	247.3	259,800		295	34.9	186.0	141,700*
	110	74.5	276.1	670,600		215	52.9	243.4	250,800		300	33.3	178.3	135,300*
	115	73.4	274.5	627,800		220	51.6	239.4	242,400		305	31.5	170.0	129,100*
	120	72.3	272.8	589,600		225	50.4	235.2	234,400		310	29.7	161.2	123,100*
	125	71.2	271.1	555,500		230	49.1	230.8	226,800		315	27.8	151.7	117,100*
	130	70.1	269.2	524,700		235	47.8	226.1	219,500		320	25.7	141.3	111,200*
	135	69.0	267.2	496,700		240	46.5	221.3	212,600		325	23.5	129.8	105,400*
	140	67.9	265.1	471,400		245	45.1	216.3	206,100		330	21.0	116.8	99,600*
	145	66.8	262.9	448,100		250	43.7	210.9	199,800		335	18.2	101.9	86,300*
	150	65.7	260.5	426,800		255	42.3	205.4	193,800					
	155	64.5	258.1	407,200		260	40.8	199.5	187,400*					
	160	63.4	255.5	389,100		265	39.3	193.3	179,300*					
	165	62.2	252.8	372,300		270	37.8	186.7	171,400*					
	170	61.0	249.9	356,700		275	36.1	179.8	163,900*					
	175	59.8	247.0	342,100		280	34.4	172.4	156,600*					
	180	58.6	243.8	328,600										

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340	80	82.4	344.2	523,600*	360	145	72.2	348.8	424,000*	380	230	59.0	330.5	215,700	
	85	81.6	343.4	523,600*		150	71.3	347.1	415,800		235	58.1	327.3	208,500	
	90	80.7	342.5	523,600*		155	70.5	345.2	396,200		240	57.2	324.1	201,600	
	95	79.8	341.5	523,600*		160	69.6	343.3	378,100		245	56.3	320.7	195,000	
	100	79.0	340.5	523,600*		165	68.8	341.3	361,300		250	55.4	317.1	188,700	
	105	78.1	339.4	523,600*		170	67.9	339.3	345,700		255	54.4	313.5	182,700	
	110	77.3	338.2	523,600*		175	67.1	337.1	331,100		260	53.5	309.8	176,900	
	115	76.4	337.0	523,600*		180	66.2	334.8	317,600		265	52.5	305.9	171,400	
	120	75.5	335.6	523,600*		185	65.3	332.5	304,800		270	51.6	301.8	164,400*	
	125	74.6	334.2	523,600*		190	64.4	330.0	292,900		275	50.6	297.7	150,800*	
	130	73.8	332.7	503,000*		195	63.5	327.5	281,700		280	49.6	293.3	137,800*	
	135	72.9	331.1	481,300*		200	62.6	324.8	271,200		285	48.6	288.9	125,300*	
	140	72.0	329.4	462,800		205	61.7	322.1	261,200		290	47.6	284.2	113,200*	
	145	71.1	327.6	439,600		210	60.8	319.2	251,800		295	46.5	279.4	101,500*	
	150	70.2	325.8	418,300		215	59.9	316.2	242,900		300	45.4	274.4	90,100*	
	155	69.3	323.8	398,700		220	58.9	313.2	234,400		305	44.4	269.2	79,100*	
	160	68.4	321.8	380,500		225	58.0	310.0	226,400		310	43.3	263.9	68,400*	
	165	67.5	319.6	363,700		230	57.0	306.7	218,800		315	42.1	258.3	58,000*	
	170	66.5	317.4	348,100		235	56.1	303.3	211,600		400	85	82.8	404.1	326,800*
	175	65.6	315.1	333,600		240	55.1	299.7	204,700			90	82.1	403.3	326,800*
	180	64.7	312.6	320,000		245	54.1	296.0	198,100			95	81.4	402.5	326,800*
	185	63.7	310.1	307,300		250	53.1	292.2	191,800			100	80.7	401.7	326,800*
	190	62.8	307.5	295,400		255	52.1	288.3	185,800			105	79.9	400.7	326,800*
	195	61.8	304.7	284,200		260	51.1	284.1	180,100			110	79.2	399.7	326,800*
	200	60.9	301.9	273,600		265	50.0	279.9	174,600			115	78.5	398.6	326,800*
	205	59.9	298.9	263,600		270	49.0	275.5	169,300			120	77.7	397.5	326,800*
	210	58.9	295.8	254,200		275	47.9	270.9	164,200			125	77.0	396.3	326,800*
	215	57.9	292.6	245,300		280	46.8	266.1	159,400			130	76.3	395.0	326,800*
	220	56.9	289.3	236,900		285	45.7	261.2	154,400*			135	75.5	393.7	326,800*
	225	55.8	285.9	228,900		290	44.5	256.0	141,100*			140	74.8	392.3	326,800*
	230	54.8	282.3	221,300		295	43.4	250.6	128,300*			145	74.0	390.8	326,800*
	235	53.8	278.5	214,000		300	42.2	245.0	115,800*			150	73.3	389.3	324,600*
	240	52.7	274.6	207,100		305	40.9	239.2	103,800*			155	72.5	387.6	319,600*
	245	51.6	270.6	200,600		310	39.7	233.1	92,000*			160	71.8	385.9	314,500*
	250	50.5	266.4	194,300		315	38.4	226.7	80,600*			165	71.0	384.2	309,200*
	255	49.4	262.1	188,300		320	37.1	220.0	69,400*			170	70.2	382.3	303,800*
	260	48.3	257.5	182,500		325	35.7	213.0	58,500*			175	69.5	380.4	298,400*
	265	47.1	252.8	177,000		380	85	82.5	383.9	385,700*		180	68.7	378.4	292,900*
	270	45.9	247.9	171,700			90	81.7	383.1	385,700*		185	67.9	376.3	287,400*
	275	44.7	242.8	166,700			95	80.9	382.2	385,700*		190	67.2	374.2	281,800*
	280	43.5	237.4	161,800			100	80.2	381.3	385,700*		195	66.4	371.9	275,700*
	285	42.2	231.8	157,100			105	79.4	380.3	385,700*		200	65.6	369.6	265,600
	290	40.9	226.0	151,800*			110	78.6	379.3	385,700*		205	64.8	367.2	255,600
	295	39.6	219.8	145,200*			115	77.9	378.1	385,700*		210	64.0	364.7	246,200
	300	38.2	213.4	138,900*			120	77.1	376.9	385,700*		215	63.2	362.1	237,300
	305	36.8	206.6	132,800*			125	76.3	375.7	385,700*		220	62.4	359.5	228,800
	310	35.3	199.5	125,700*			130	75.5	374.3	385,700*		225	61.5	356.7	220,800
	315	33.8	191.9	112,800*			135	74.7	372.9	385,700*		230	60.7	353.8	213,200
	320	32.2	183.9	100,100*			140	73.9	371.4	385,700*		235	59.9	350.9	206,000
	325	30.5	175.4	87,700*			145	73.2	369.9	385,700*		240	59.1	347.8	199,100
	330	28.8	166.2	75,500*			150	72.4	368.2	382,000*		245	58.2	344.7	190,800*
	335	26.9	156.3	63,600*			155	71.6	366.5	375,800*		250	57.4	341.4	176,900*
	340	24.9	145.5	51,900*			160	70.8	364.7	370,200*		255	56.5	338.1	163,500*
360	80	82.8	364.4	443,800*	380	165	70.0	362.8	358,200	260	55.6	334.6	150,700*		
	85	82.0	363.6	443,800*		170	69.2	360.9	342,600	265	54.7	331.0	138,300*		
	90	81.2	362.8	443,800*		175	68.3	358.8	328,000	270	53.8	327.3	126,400*		
	95	80.4	361.9	443,800*		180	67.5	356.7	314,400	275	52.9	323.4	114,900*		
	100	79.6	360.9	443,800*		185	66.7	354.5	301,700	280	52.0	319.5	103,800*		
	105	78.8	359.9	443,800*		190	65.9	352.2	289,800	285	51.1	315.4	93,000*		
	110	78.0	358.8	443,800*		195	65.0	349.8	278,600	290	50.2	311.1	82,600*		
	115	77.2	357.6	443,800*		200	64.2	347.4	268,000	295	49.2	306.8	72,400*		
	120	76.3	356.3	443,800*		205	63.3	344.8	258,100	300	48.2	302.2	62,500*		
	125	75.5	355.0	443,800*		210	62.5	342.1	248,700	305	47.3	297.6	52,900*		
	130	74.7	353.6	443,800*		215	61.6	339.4	239,800						
	135	73.9	352.1	443,800*		220	60.8	336.5	231,300						
	140	73.0	350.5	442,300*		225	59.9	333.6	223,300						