

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
978,700 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 978,700 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	279,200*	240	175	54.0	198.5	374,000
	70	80.9	224.2	832,000*		210	36.3	133.2	265,700*		180	52.5	194.6	359,500
	75	79.5	223.2	828,100*		215	33.9	125.6	251,800*		185	51.0	190.5	346,000
	80	78.2	222.1	824,900*		220	31.4	117.3	237,700*		190	49.4	186.1	333,300
	85	76.9	220.8	822,300*		225	28.7	108.1	223,900*		195	47.7	181.4	320,000*
	90	75.5	219.4	820,200*		230	25.7	97.7	210,400*		200	46.1	176.5	305,000*
	95	74.2	217.9	818,600*		235	22.2	85.5	196,900*		205	44.3	171.3	290,700*
	100	72.8	216.3	817,500*		240	18.2	70.6	182,800*		210	42.5	165.7	277,200*
	105	71.4	214.5	777,600		240	65	82.8	245.3	790,000*	215	40.7	159.8	264,400*
	110	70.0	212.6	726,100			70	81.6	244.5	785,700*	220	38.8	153.4	252,200*
	115	68.6	210.5	680,500			75	80.4	243.6	782,100*	225	36.8	146.6	240,500*
	120	67.2	208.3	639,900			80	79.2	242.6	778,800*	230	34.6	139.3	229,300*
	125	65.7	206.0	603,500			85	78.0	241.4	776,000*	235	32.4	131.3	218,300*
	130	64.3	203.5	570,800			90	76.8	240.2	773,400*	240	30.0	122.5	206,300*
	135	62.8	200.8	541,100			95	75.5	238.8	771,200*	245	27.4	112.8	194,600*
	140	61.3	198.0	514,000			100	74.3	237.3	769,100*	250	24.5	101.8	182,900*
	145	59.8	195.0	489,300			105	73.0	235.7	767,400*	255	21.2	89.0	171,200*
	150	58.3	191.8	466,700			110	71.8	234.0	723,500	260	17.3	73.5	158,900*
	155	56.7	188.4	445,800	240		115	70.5	232.1	678,000				
	160	55.1	184.8	426,500			120	69.2	230.1	637,400				
	165	53.4	181.0	408,600			125	67.9	228.0	601,000				
	170	51.8	177.0	392,000			130	66.6	225.8	568,200				
	175	50.1	172.7	376,500			135	65.3	223.4	538,500				
	180	48.3	168.1	358,500*			140	63.9	220.8	511,500				
	185	46.5	163.2	340,700*			145	62.6	218.2	486,800				
	190	44.6	158.0	324,000*			150	61.2	215.3	464,100				
	195	42.7	152.5	308,300*			155	59.8	212.3	443,200				
	200	40.6	146.5	293,400*			160	58.4	209.1	424,000				
							165	57.0	205.8	406,100				
							170	55.5	202.3	389,500				

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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	340,600	300	285	32.6	164.5	156,200*
	75	81.2	263.9	732,000*		190	56.2	237.1	327,900		290	30.8	156.0	149,200*
	80	80.0	263.0	729,500*		195	54.9	233.5	316,000		295	28.8	146.9	142,200*
	85	78.9	261.9	727,200*		200	53.6	229.8	304,800		300	26.6	136.8	135,400*
	90	77.8	260.8	725,300*		205	52.3	225.8	294,200		305	24.3	125.7	127,700*
	95	76.7	259.5	723,600*		210	51.0	221.7	284,200		310	21.7	113.3	119,800*
	100	75.5	258.1	722,200*		215	49.7	217.4	274,700		315	18.8	98.8	111,600*
	105	74.4	256.7	721,000*		220	48.3	212.8	265,700		320	15.3	81.3	102,900*
	110	73.2	255.1	720,000*		225	46.9	208.0	257,200					
	115	72.0	253.4	715,300*		230	45.4	203.0	247,200*					
	120	70.9	251.6	713,700*		235	43.9	197.7	236,500*		75	82.8	324.7	580,300*
	125	69.7	249.7	708,400*		240	42.4	192.1	226,200*		80	81.9	323.9	580,100*
	130	68.5	247.6	705,600*		245	40.8	186.2	216,400*		85	81.0	323.1	579,800*
	135	67.3	245.4	703,900*		250	39.2	180.0	206,900*		90	80.1	322.1	579,500*
	140	66.1	243.2	701,900*		255	37.5	173.4	197,900*		95	79.2	321.1	579,300*
	145	64.9	240.7	698,200*		260	35.7	166.3	189,200*		100	78.3	320.0	579,300*
	150	63.6	238.2	694,500*		265	33.9	158.8	180,800*		105	77.4	318.9	579,300*
	155	62.4	235.5	690,600*		270	31.9	150.7	172,600*		110	76.4	317.6	579,300*
	160	61.1	232.6	686,300*		275	29.8	141.9	164,700*		115	75.5	316.2	579,300*
	165	59.8	229.6	681,600*		280	27.6	132.2	156,700*		120	74.6	314.8	577,900*
280	170	58.5	226.5	676,800*	300	285	25.2	121.6	147,700*	320	125	73.7	313.3	550,700*
	175	57.2	223.2	671,300*		290	22.5	109.6	138,800*		130	72.7	311.7	543,600*
	180	55.9	219.7	665,900*		295	19.5	95.7	129,600*		135	71.8	310.0	520,100*
	185	54.5	216.1	660,400*		300	15.9	78.8	120,000*		140	70.8	308.2	498,500*
	190	53.1	212.2	654,700*							145	69.9	306.3	476,000*
	195	51.7	208.2	648,700*		75	82.4	304.5	629,000*		150	68.9	304.3	453,300*
	200	50.3	203.9	642,500*		80	81.4	303.7	627,900*		155	67.9	302.2	432,400*
	205	48.8	199.4	636,100*		85	80.4	302.7	627,000*		160	66.9	300.0	413,100*
	210	47.3	194.7	629,600*		90	79.4	301.8	626,300*		165	66.0	297.7	395,300*
	215	45.7	189.7	623,000*		95	78.5	300.7	625,700*		170	65.0	295.3	378,600*
	220	44.1	184.5	616,300*		100	77.5	299.5	625,400*		175	64.0	292.8	363,200*
	225	42.5	178.9	609,500*		105	76.5	298.2	625,300*		180	63.0	290.2	348,700*
	230	40.8	173.0	602,600*		110	75.5	296.9	625,300*		185	61.9	287.4	335,200*
	235	39.0	166.7	595,500*		115	74.5	295.4	625,300*		190	60.9	284.6	322,500*
	240	37.1	160.0	588,300*		120	73.5	293.9	623,100*		195	59.9	281.6	310,600*
	245	35.2	152.8	581,000*		125	72.5	292.2	592,600*		200	58.8	278.5	299,300*
	250	33.2	145.1	573,600*		130	71.5	290.5	559,800*		205	57.7	275.3	288,700*
	255	31.0	136.7	566,100*		135	70.5	288.7	530,100*		210	56.7	271.9	278,700*
	260	28.7	127.5	558,500*		140	69.5	286.7	503,100*		215	55.6	268.4	269,200*
	265	26.2	117.3	550,700*		145	68.4	284.7	478,400*		220	54.5	264.8	260,300*
300	270	23.5	105.8	542,600*		150	67.4	282.5	455,700*		225	53.3	261.0	251,700*
	275	20.3	92.4	534,300*		155	66.3	280.3	434,800*		230	52.2	257.0	243,600*
	280	16.6	76.2	525,900*		160	65.3	277.9	415,500*		235	51.0	252.9	235,900*
						165	64.2	275.4	397,600*		240	49.9	248.6	228,600*
						170	63.2	272.8	381,000*		245	48.7	244.1	221,600*
	70	82.8	285.0	685,200*		175	62.1	270.1	365,600*		250	47.4	239.5	214,900*
	75	81.8	284.2	682,500*		180	61.0	267.3	351,100*		255	46.2	234.6	208,500*
	80	80.8	283.3	680,300*		185	59.9	264.3	337,600*		260	44.9	229.5	201,100*
	85	79.7	282.4	678,400*		190	58.7	261.2	324,900*		265	43.6	224.2	192,700*
	90	78.7	281.3	676,800*		195	57.6	257.9	313,000*		270	42.3	218.6	184,600*
	95	77.6	280.1	675,600*		200	56.4	254.5	301,700*		275	40.9	212.7	176,800*
	100	76.6	278.9	674,600*		205	55.3	251.0	291,100*		280	39.5	206.6	169,300*
	105	75.5	277.5	673,900*		210	54.1	247.3	281,100*		285	38.0	200.1	162,100*
	110	74.5	276.1	673,500*		215	52.9	243.4	271,600*		290	36.5	193.2	155,100*
	115	73.4	274.5	672,600*		220	51.6	239.4	262,600*		295	34.9	186.0	148,400*
	120	72.3	272.8	671,300*		225	50.4	235.2	254,100*		300	33.3	178.3	141,800*
	125	71.2	271.1	669,600*		230	49.1	230.8	246,000*		305	31.5	170.0	135,400*
	130	70.1	269.2	667,600*		235	47.8	226.1	238,300*		310	29.7	161.2	129,200*
	135	69.0	267.2	665,300*		240	46.5	221.3	231,000*		315	27.8	151.7	123,100*
	140	67.9	265.1	662,900*		245	45.1	216.3	222,500*		320	25.7	141.3	117,100*
	145	66.8	262.9	659,400*		250	43.7	210.9	213,000*		325	23.5	129.8	110,600*
	150	65.7	260.5	655,700*		255	42.3	205.4	203,900*		330	21.0	116.8	100,200*
	155	64.5	258.1	651,900*		260	40.8	199.5	195,200*		335	18.2	101.9	86,300*
	160	63.4	255.5	648,000*		265	39.3	193.3	186,900*					
	165	62.2	252.8	644,000*		270	37.8	186.7	178,800*					
	170	61.0	249.9	639,900*		275	36.1	179.8	171,000*					
	175	59.8	247.0	635,600*		280	34.4	172.4	163,500*					
	180	58.6	243.8	631,200*										

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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	234,900	
	85	81.6	343.4	523,600*		150	71.3	347.1	422,900*		235	58.1	327.3	227,200	
	90	80.7	342.5	523,600*		155	70.5	345.2	407,100*		240	57.2	324.1	219,900	
	95	79.8	341.5	523,600*		160	69.6	343.3	392,400*		245	56.3	320.7	212,900	
	100	79.0	340.5	523,600*		165	68.8	341.3	378,700*		250	55.4	317.1	206,200	
	105	78.1	339.4	523,600*		170	67.9	339.3	365,700*		255	54.4	313.5	199,800	
	110	77.3	338.2	523,600*		175	67.1	337.1	353,500*		260	53.5	309.8	193,300*	
	115	76.4	337.0	523,600*		180	66.2	334.8	341,900*		265	52.5	305.9	178,500*	
	120	75.5	335.6	523,600*		185	65.3	332.5	329,600		270	51.6	301.8	164,400*	
	125	74.6	334.2	523,600*		190	64.4	330.0	316,900		275	50.6	297.7	150,800*	
	130	73.8	332.7	503,000*		195	63.5	327.5	305,000		280	49.6	293.3	137,800*	
	135	72.9	331.1	481,300*		200	62.6	324.8	293,800		285	48.6	288.9	125,300*	
	140	72.0	329.4	477,200*		205	61.7	322.1	283,200		290	47.6	284.2	113,200*	
	145	71.1	327.6	458,200*		210	60.8	319.2	273,100		295	46.5	279.4	101,500*	
	150	70.2	325.8	440,500*		215	59.9	316.2	263,700		300	45.4	274.4	90,100*	
	155	69.3	323.8	424,100*		220	58.9	313.2	254,700		305	44.4	269.2	79,100*	
	160	68.4	321.8	408,700*		225	58.0	310.0	246,200		310	43.3	263.9	68,400*	
	165	67.5	319.6	392,100		230	57.0	306.7	238,100		315	42.1	258.3	58,000*	
	170	66.5	317.4	375,500		235	56.1	303.3	230,300		400	85	82.8	404.1	326,800*
	175	65.6	315.1	360,000		240	55.1	299.7	223,000			90	82.1	403.3	326,800*
	180	64.7	312.6	345,600		245	54.1	296.0	216,000			95	81.4	402.5	326,800*
	185	63.7	310.1	332,100		250	53.1	292.2	209,300			100	80.7	401.7	326,800*
	190	62.8	307.5	319,400		255	52.1	288.3	202,900			105	79.9	400.7	326,800*
	195	61.8	304.7	307,400		260	51.1	284.1	196,800			110	79.2	399.7	326,800*
	200	60.9	301.9	296,200		265	50.0	279.9	190,900			115	78.5	398.6	326,800*
	205	59.9	298.9	285,600		270	49.0	275.5	185,300			120	77.7	397.5	326,800*
	210	58.9	295.8	275,600		275	47.9	270.9	179,900			125	77.0	396.3	326,800*
	215	57.9	292.6	266,100		280	46.8	266.1	168,100*			130	76.3	395.0	326,800*
	220	56.9	289.3	257,100		285	45.7	261.2	154,400*		135	75.5	393.7	326,800*	
	225	55.8	285.9	248,600		290	44.5	256.0	141,100*		140	74.8	392.3	326,800*	
	230	54.8	282.3	240,500		295	43.4	250.6	128,300*		145	74.0	390.8	326,800*	
	235	53.8	278.5	232,800		300	42.2	245.0	115,800*		150	73.3	389.3	324,600*	
	240	52.7	274.6	225,500		305	40.9	239.2	103,800*		155	72.5	387.6	319,600*	
	245	51.6	270.6	218,400		310	39.7	233.1	92,000*		160	71.8	385.9	314,500*	
250	50.5	266.4	211,800	315	38.4	226.7	80,600*	165	71.0	384.2	309,200*				
255	49.4	262.1	205,400	320	37.1	220.0	69,400*	170	70.2	382.3	303,800*				
260	48.3	257.5	199,200	325	35.7	213.0	58,500*	175	69.5	380.4	298,400*				
265	47.1	252.8	193,400	380	85	82.5	383.9	385,700*	180	68.7	378.4	292,900*			
270	45.9	247.9	187,800		90	81.7	383.1	385,700*	185	67.9	376.3	287,400*			
275	44.7	242.8	180,600*		95	80.9	382.2	385,700*	190	67.2	374.2	281,800*			
280	43.5	237.4	173,100*		100	80.2	381.3	385,700*	195	66.4	371.9	275,700*			
285	42.2	231.8	165,800*		105	79.4	380.3	385,700*	200	65.6	369.6	269,600*			
290	40.9	226.0	158,800*		110	78.6	379.3	385,700*	205	64.8	367.2	263,500*			
295	39.6	219.8	152,100*		115	77.9	378.1	385,700*	210	64.0	364.7	257,500*			
300	38.2	213.4	145,600*		120	77.1	376.9	385,700*	215	63.2	362.1	251,400*			
305	36.8	206.6	139,100*		125	76.3	375.7	385,700*	220	62.4	359.5	245,300*			
310	35.3	199.5	125,700*		130	75.5	374.3	385,700*	225	61.5	356.7	239,000*			
315	33.8	191.9	112,800*	135	74.7	372.9	385,700*	230	60.7	353.8	232,300*				
320	32.2	183.9	100,100*	140	73.9	371.4	385,700*	235	59.9	350.9	218,900*				
325	30.5	175.4	87,700*	145	73.2	369.9	385,700*	240	59.1	347.8	205,400*				
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*	165	70.0	362.8	362,300*	260	55.6	334.6	150,700*			
	85	82.0	363.6	443,800*	170	69.2	360.9	349,900*	265	54.7	331.0	138,300*			
	90	81.2	362.8	443,800*	175	68.3	358.8	338,300*	270	53.8	327.3	126,400*			
	95	80.4	361.9	443,800*	180	67.5	356.7	327,200*	275	52.9	323.4	114,900*			
	100	79.6	360.9	443,800*	185	66.7	354.5	316,800*	280	52.0	319.5	103,800*			
	105	78.8	359.9	443,800*	190	65.9	352.2	306,900*	285	51.1	315.4	93,000*			
	110	78.0	358.8	443,800*	195	65.0	349.8	297,400*	290	50.2	311.1	82,600*			
	115	77.2	357.6	443,800*	200	64.2	347.4	288,400*	295	49.2	306.8	72,400*			
	120	76.3	356.3	443,800*	205	63.3	344.8	279,800*	300	48.2	302.2	62,500*			
	125	75.5	355.0	443,800*	210	62.5	342.1	270,000	305	47.3	297.6	52,900*			
130	74.7	353.6	443,800*	215	61.6	339.4	260,500								
135	73.9	352.1	443,800*	220	60.8	336.5	251,600								
140	73.0	350.5	442,300*	225	59.9	333.6	243,000								