

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

BOOM NO. 65
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 JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB 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 1/2" 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 AND JIB LENGTHS LIFTED UNASSISTED		DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
BOOM LGTH.	JIB NO. 27AB	JIB LGTH.	JIB NO. 27AB
400'	---	80'	48,000 LBS.
380'	---	100'	57,800 LBS.
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.		120'	67,000 LBS.

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

CONSULT JIB CHART FOR JIB CAPACITIES.

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
140	55	80.1	145.5	1,500,000*	180	60	80.7	185.2	1,500,000*	200	60	81.7	205.5	1,301,700*
	60	78.0	144.5	1,500,000*		65	79.1	184.3	1,500,000*		65	80.2	204.7	1,301,700*
	65	75.9	143.2	1,500,000*		70	77.5	183.2	1,492,700		70	78.7	203.7	1,281,600*
	70	73.8	141.8	1,500,000*		75	75.8	182.0	1,325,700		75	77.3	202.6	1,248,100*
	75	71.6	140.2	1,333,200		80	74.2	180.6	1,191,200		80	75.8	201.3	1,188,400
	80	69.5	138.3	1,198,700		85	72.5	179.0	1,080,500		85	74.3	199.9	1,077,800
	85	67.2	136.2	1,084,800*		90	70.8	177.3	988,000		90	72.8	198.4	985,200
	90	65.0	133.9	982,200*		95	69.1	175.4	909,300		95	71.3	196.7	906,500
	95	62.7	131.4	895,100*		100	67.4	173.3	841,700		100	69.8	194.9	838,900
	100	60.3	128.6	820,300*		105	65.7	171.1	783,000		105	68.2	192.9	780,200
	105	57.9	125.5	753,100*		110	63.9	168.7	731,400		110	66.7	190.8	728,600
	110	55.5	122.1	693,200*		115	62.1	166.1	685,900		115	65.1	188.5	683,100
	115	52.9	118.4	640,000*		120	60.3	163.2	645,300		120	63.5	186.0	642,500
	120	50.3	114.3	592,500*		125	58.4	160.2	608,900		125	61.9	183.4	606,100
	125	47.5	109.8	549,700*		130	56.5	156.9	576,200		130	60.2	180.6	573,300
	130	44.7	104.9	510,900*		135	54.6	153.4	546,500		135	58.6	177.5	543,600
	135	41.6	99.4	475,300*		140	52.6	149.6	513,600*		140	56.9	174.3	516,600
	140	38.4	93.3	442,400*		145	50.5	145.6	483,200*		145	55.1	170.9	491,900
	145	34.9	86.3	411,600*		150	48.4	141.2	455,300*		150	53.3	167.2	469,200
	150	31.0	78.4	382,600*		155	46.2	136.5	429,600*		155	51.5	163.2	448,300
	155	26.7	69.0	354,500*		160	43.9	131.4	405,700*		160	49.7	159.1	425,400*
	160	21.5	57.3	326,500*		165	41.6	125.8	382,300*		165	47.7	154.6	402,600*
						170	39.1	119.8	359,400*		170	45.7	149.8	381,400*
						175	36.4	113.2	337,900*		175	43.7	144.6	361,600*
						180	33.6	105.9	317,400*		180	41.6	139.1	343,000*
						185	30.6	97.7	297,900*		185	39.3	133.1	325,500*
						190	27.2	88.4	278,900*		190	37.0	126.6	308,100*
						195	23.4	77.5	260,100*		195	34.5	119.5	290,600*
						200	18.8	64.2	241,000*		200	31.8	111.7	273,700*
											205	28.9	102.9	257,500*
											210	25.8	93.0	241,600*
											215	22.1	81.5	225,800*
											220	17.8	67.3	209,500*

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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	
220	65	81.1	225.0	1,138,000*	240	65	81.9	245.2	1,009,900*	260	235	38.0	166.6	228,500*	
	70	79.8	224.1	1,110,500*		70	80.6	244.4	992,400*		240	36.2	159.8	218,300*	
	75	78.5	223.1	1,083,900*		75	79.4	243.5	975,000*		245	34.3	152.7	208,400*	
	80	77.1	221.9	1,058,300*		80	78.2	242.4	957,700*		250	32.2	144.9	198,900*	
	85	75.8	220.7	1,033,500*		85	77.0	241.3	940,700*		255	30.1	136.5	189,700*	
	90	74.4	219.3	982,600*		90	75.8	240.0	924,000*		260	27.8	127.3	179,900*	
	95	73.1	217.8	904,000*		95	74.5	238.7	901,500*		265	25.3	117.0	169,700*	
	100	71.7	216.2	836,300*		100	73.3	237.2	833,800*		270	22.5	105.5	159,600*	
	105	70.3	214.4	777,600*		105	72.0	235.6	775,100*		275	19.3	92.1	149,300*	
	110	68.9	212.5	726,100*		110	70.8	233.8	723,500*		280	15.6	75.8	138,400*	
	115	67.5	210.4	680,500*		115	69.5	232.0	678,000*		280	70	82.0	284.9	759,800*
	120	66.1	208.2	639,900*		120	68.2	230.0	637,400*			75	81.0	284.1	748,200*
	125	64.6	205.9	603,500*		125	66.9	227.9	601,000*			80	79.9	283.2	736,500*
	130	63.2	203.4	570,800*		130	65.6	225.6	568,200*			85	78.9	282.3	724,700*
	135	61.7	200.7	541,100*		135	64.3	223.2	538,500*			90	77.8	281.2	713,000*
	140	60.2	197.9	514,000*		140	62.9	220.7	511,500*			95	76.8	280.0	701,300*
	145	58.7	194.9	489,300*		145	61.6	218.0	486,800*			100	75.7	278.8	689,700*
	150	57.2	191.7	466,700*		150	60.2	215.2	464,100*			105	74.7	277.4	678,200*
	155	55.6	188.3	445,800*		155	58.8	212.2	443,200*			110	73.6	276.0	666,800*
	160	54.0	184.7	426,500*		160	57.4	209.0	424,000*			115	72.5	274.4	655,500*
	165	52.3	180.9	408,600*		165	56.0	205.7	406,100*			120	71.4	272.7	632,000*
	170	50.7	176.8	392,000*		170	54.5	202.1	389,500*			125	70.4	271.0	595,600*
	175	48.9	172.5	376,500*		175	53.0	198.4	374,000*		130	69.3	269.1	562,900*	
	180	47.2	167.9	358,500*		180	51.5	194.5	359,500*		135	68.2	267.1	533,200*	
185	45.4	163.1	340,700*	185	49.9	190.3	346,000*	140	67.1	265.0	506,100*				
190	43.5	157.9	324,000*	190	48.3	185.9	333,300*	145	65.9	262.8	481,400*				
195	41.5	152.3	308,300*	195	46.7	181.3	320,000*	150	64.8	260.4	458,700*				
200	39.5	146.3	293,400*	200	45.0	176.3	305,000*	155	63.7	258.0	437,900*				
205	37.4	139.9	279,200*	205	43.3	171.1	290,700*	160	62.5	255.4	418,600*				
210	35.2	133.0	265,700*	210	41.5	165.5	277,200*	165	61.4	252.7	400,700*				
215	32.8	125.4	251,800*	215	39.7	159.6	264,400*	170	60.2	249.8	384,100*				
220	30.3	117.1	237,700*	220	37.7	153.3	252,200*	175	59.0	246.8	368,600*				
225	27.5	107.9	223,900*	225	35.7	146.4	240,500*	180	57.8	243.7	354,200*				
230	24.5	97.4	210,400*	230	33.6	139.1	229,300*	185	56.6	240.4	340,600*				
235	21.1	85.2	196,900*	235	31.4	131.1	218,300*	190	55.3	237.0	327,900*				
240	17.0	70.2	182,800*	240	28.9	122.3	206,300*	195	54.1	233.4	316,000*				
260	245	26.3	112.5	194,600*	245	26.3	112.5	194,600*	200	52.8	229.6	304,800*			
	250	23.4	101.5	182,900*	250	23.4	101.5	182,900*	205	51.5	225.7	294,200*			
	255	20.1	88.7	171,200*	255	20.1	88.7	171,200*	210	50.1	221.6	284,200*			
	260	16.2	73.1	158,900*	260	16.2	73.1	158,900*	215	48.8	217.2	274,700*			
	70	81.4	264.7	862,800*	70	81.4	264.7	862,800*	220	47.4	212.7	265,700*			
	75	80.3	263.8	848,600*	75	80.3	263.8	848,600*	225	46.0	207.9	257,200*			
	80	79.1	262.9	834,500*	80	79.1	262.9	834,500*	230	44.5	202.9	247,200*			
	85	78.0	261.8	820,400*	85	78.0	261.8	820,400*	235	43.0	197.6	236,500*			
	90	76.9	260.7	806,400*	90	76.9	260.7	806,400*	240	41.5	192.0	226,200*			
	95	75.7	259.4	792,700*	95	75.7	259.4	792,700*	245	39.9	186.1	216,400*			
	100	74.6	258.0	779,100*	100	74.6	258.0	779,100*	250	38.3	179.9	206,900*			
	105	73.4	256.6	765,600*	105	73.4	256.6	765,600*	255	36.6	173.2	197,900*			
110	72.3	255.0	750,900*	110	72.3	255.0	750,900*	260	34.8	166.2	189,200*				
115	71.1	253.3	735,300*	115	71.1	253.3	735,300*	265	33.0	158.6	180,800*				
120	70.0	251.5	719,700*	120	70.0	251.5	719,700*	270	31.0	150.5	172,600*				
125	68.8	249.6	704,100*	125	68.8	249.6	704,100*	275	28.9	141.7	164,700*				
130	67.6	247.5	688,500*	130	67.6	247.5	688,500*	280	26.7	132.0	156,700*				
135	66.4	245.3	672,900*	135	66.4	245.3	672,900*	285	24.3	121.4	147,700*				
140	65.2	243.0	657,300*	140	65.2	243.0	657,300*	290	21.6	109.3	138,800*				
145	63.9	240.6	641,700*	145	63.9	240.6	641,700*	295	18.6	95.4	129,600*				
150	62.7	238.1	626,100*	150	62.7	238.1	626,100*								
155	61.5	235.4	610,500*	155	61.5	235.4	610,500*								
160	60.2	232.5	594,900*	160	60.2	232.5	594,900*								
165	58.9	229.5	579,300*	165	58.9	229.5	579,300*								
170	57.6	226.4	563,700*	170	57.6	226.4	563,700*								
175	56.3	223.1	548,100*	175	56.3	223.1	548,100*								
180	54.9	219.6	532,500*	180	54.9	219.6	532,500*								
185	53.6	215.9	516,900*	185	53.6	215.9	516,900*								
190	52.2	212.1	501,300*	190	52.2	212.1	501,300*								
195	50.8	208.0	485,700*	195	50.8	208.0	485,700*								
200	49.3	203.8	470,100*	200	49.3	203.8	470,100*								
205	47.8	199.3	454,500*	205	47.8	199.3	454,500*								
210	46.3	194.6	438,900*	210	46.3	194.6	438,900*								
215	44.8	189.6	423,300*	215	44.8	189.6	423,300*								
220	43.2	184.3	407,700*	220	43.2	184.3	407,700*								
225	41.5	178.8	392,100*	225	41.5	178.8	392,100*								
230	39.8	172.8	376,500*	230	39.8	172.8	376,500*								

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3000	75	81.6	304.4	653,500*	3200	200	58.1	278.4	299,300	3400	305	36.1	206.5	139,300*
	80	80.6	303.6	643,900*		205	57.0	275.2	288,700		310	34.6	199.3	133,200*
	85	79.6	302.6	634,100*		210	55.9	271.8	278,700		315	33.1	191.8	127,300*
	90	78.7	301.7	624,200*		215	54.8	268.3	269,200		320	31.5	183.8	121,500*
	95	77.7	300.6	614,300*		220	53.7	264.7	260,300		325	29.8	175.2	115,900*
	100	76.7	299.4	604,400*		225	52.6	260.9	251,700		330	28.1	166.0	110,300*
	105	75.7	298.1	594,600*		230	51.4	256.9	243,600		335	26.2	156.1	104,900*
	110	74.7	296.8	584,800*		235	50.3	252.8	235,900		340	24.2	145.3	99,500*
	115	73.7	295.3	575,000*		240	49.1	248.5	228,600		345	22.0	133.4	94,000*
	120	72.7	293.8	565,300*		245	47.9	244.0	221,600		350	19.6	120.0	87,600*
	125	71.7	292.1	555,700*		250	46.7	239.4	214,900		355	16.8	104.5	80,900*
	130	70.7	290.4	546,200*		255	45.4	234.5	208,500	3600	90	80.6	362.7	434,300*
	135	69.7	288.6	536,800*		260	44.1	229.4	201,100*		95	79.8	361.8	428,000*
	140	68.7	286.6	526,400*		265	42.8	224.0	192,700*		100	78.9	360.9	421,700*
	145	67.6	284.6	516,000*		270	41.5	218.4	184,600*		105	78.1	359.8	415,200*
	150	66.6	282.4	505,700*		275	40.1	212.6	176,800*		110	77.3	358.7	408,700*
	155	65.5	280.2	494,800*		280	38.7	206.4	169,300*		115	76.5	357.5	402,100*
	160	64.5	277.8	483,500*		285	37.2	199.9	162,100*		120	75.7	356.2	395,400*
	165	63.4	275.3	471,800*		290	35.7	193.1	155,100*		125	74.9	354.9	388,800*
	170	62.3	272.7	459,800*		295	34.1	185.8	148,400*		130	74.0	353.5	382,100*
	175	61.3	270.0	447,400*		300	32.5	178.1	141,800*		135	73.2	352.0	375,400*
	180	60.2	267.2	434,600*		305	30.8	169.9	135,400*		140	72.4	350.4	368,800*
	185	59.1	264.2	421,400*		310	28.9	161.0	129,200*		145	71.5	348.7	362,100*
	190	57.9	261.1	407,800*		315	27.0	151.5	123,100*		150	70.7	347.0	355,500*
	195	56.8	257.8	393,900*		320	24.9	141.0	117,100*		155	69.8	345.2	348,800*
	200	55.6	254.4	379,700*		325	22.7	129.5	110,600*		160	69.0	343.2	341,800*
	205	54.5	250.9	365,200*		330	20.2	116.6	103,400*		165	68.1	341.2	334,900*
	210	53.3	247.3	350,400*		335	17.4	101.6	96,100*		170	67.3	339.2	328,100*
	215	52.1	243.3	335,200*	3400	80	81.7	344.1	508,800*		175	66.4	337.0	321,300*
	220	50.8	239.3	320,000*		85	80.9	343.3	501,700*		180	65.5	334.7	314,600*
	225	49.6	235.0	304,400*		90	80.0	342.4	494,500*		185	64.6	332.4	308,000*
	230	48.3	230.6	288,600*		95	79.1	341.5	487,100*		190	63.8	329.9	301,400*
	235	47.0	226.0	272,600*		100	78.3	340.4	479,700*		195	62.9	327.4	294,900*
	240	45.7	221.2	256,400*		105	77.4	339.3	472,100*		200	62.0	324.7	288,500*
	245	44.3	216.1	240,000*		110	76.6	338.1	464,500*		205	61.1	322.0	282,100*
	250	42.9	210.8	223,400*		115	75.7	336.9	456,900*		210	60.1	319.1	275,700*
	255	41.5	205.2	206,600*		120	74.8	335.5	449,300*		215	59.2	316.1	269,300*
	260	40.0	199.3	190,000*		125	73.9	334.1	441,700*		220	58.3	313.1	263,000*
	265	38.5	193.1	173,400*		130	73.1	332.6	434,100*		225	57.3	309.9	256,700*
	270	36.9	186.6	156,800*		135	72.2	331.0	426,500*		230	56.4	306.6	250,400*
	275	35.3	179.6	140,200*		140	71.3	329.3	419,000*		235	55.4	303.2	244,100*
	280	33.6	172.2	123,600*		145	70.4	327.5	411,500*		240	54.4	299.6	237,800*
	285	31.8	164.3	107,000*		150	69.5	325.7	404,000*		245	53.4	295.9	231,500*
	290	29.9	155.8	90,400*		155	68.6	323.7	396,600*		250	52.4	292.1	225,200*
	295	27.9	146.7	73,800*		160	67.7	321.7	389,300*		255	51.4	288.1	218,900*
	300	25.8	136.6	57,200*		165	66.8	319.5	382,100*		260	50.4	284.0	212,600*
	305	23.5	125.5	40,600*		170	65.8	317.3	374,900*		265	49.4	279.8	206,300*
	310	20.9	113.0	24,000*		175	64.9	315.0	367,700*		270	48.3	275.4	200,000*
	315	18.0	98.5	7,400*		180	64.0	312.6	360,500*		275	47.2	270.8	193,700*
3200	80	81.2	323.8	567,200*		185	63.0	310.0	353,300*		280	46.1	266.0	187,400*
	85	80.3	323.0	559,000*		190	62.1	307.4	346,100*		285	45.0	261.0	181,100*
	90	79.4	322.1	550,800*		195	61.1	304.6	338,900*		290	43.9	255.9	174,800*
	95	78.5	321.0	542,600*		200	60.1	301.8	331,700*		295	42.7	250.5	168,500*
	100	77.5	319.9	534,400*		205	59.2	298.8	324,500*		300	41.5	244.9	162,200*
	105	76.6	318.8	526,200*		210	58.2	295.7	317,300*		305	40.3	239.1	155,900*
	110	75.7	317.5	518,000*		215	57.2	292.5	310,100*		310	39.0	233.0	149,600*
	115	74.8	316.1	509,800*		220	56.2	289.2	302,900*		315	37.7	226.6	143,300*
	120	73.8	314.7	501,600*		225	55.1	285.7	295,700*		320	36.4	219.9	137,000*
	125	72.9	313.2	493,400*		230	54.1	282.1	288,500*		325	35.0	212.8	130,700*
	130	72.0	311.6	485,200*		235	53.0	278.4	281,300*		330	33.6	205.4	124,400*
	135	71.0	309.9	477,000*		240	52.0	274.5	274,100*		335	32.1	197.6	118,100*
	140	70.1	308.1	468,800*		245	50.9	270.5	266,900*		340	30.6	189.3	111,800*
	145	69.1	306.2	460,600*		250	49.8	266.3	259,700*		345	28.9	180.4	105,500*
	150	68.1	304.2	452,400*		255	48.7	261.9	252,500*		350	27.2	170.9	99,200*
	155	67.2	302.1	444,200*		260	47.5	257.4	245,300*		355	25.4	160.7	92,900*
	160	66.2	299.9	436,000*		265	46.4	252.7	238,100*					
	165	65.2	297.6	427,800*		270	45.2	247.8	230,900*					
	170	64.2	295.2	419,600*		275	44.0	242.6	223,700*					
	175	63.2	292.7	411,400*		280	42.8	237.3	216,500*					
	180	62.2	290.1	403,200*		285	41.5	231.7	209,300*					
	185	61.2	287.3	395,000*		290	40.2	225.8	202,100*					
	190	60.2	284.5	386,800*		295	38.9	219.7	194,900*					
	195	59.1	281.5	378,600*		300	37.5	213.3	187,700*					

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4600 SERIES 4
RINGER SERIES 3

BOOM NO. 65
60' RINGER ATTACHMENT ON
BLOCKING OR PEDESTALS
123,000 LB. CRANE COUNTERWEIGHT
978,700 LB. AUXILIARY COUNTERWEIGHT
360 DEGREE RATING

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
380	95	80.3	382.1	385,100*	400	95	80.8	402.4	333,800*
	100	79.5	381.2	379,500*		100	80.1	401.6	329,100*
	105	78.8	380.2	373,700*		105	79.3	400.6	324,300*
	110	78.0	379.2	367,800*		110	78.6	399.6	319,300*
	115	77.2	378.1	361,800*		115	77.9	398.6	314,000*
	120	76.4	376.9	355,800*		120	77.1	397.4	308,400*
	125	75.7	375.6	349,700*		125	76.4	396.2	302,700*
	130	74.9	374.3	343,600*		130	75.7	395.0	296,900*
	135	74.1	372.8	337,400*		135	74.9	393.6	291,200*
	140	73.3	371.3	331,300*		140	74.2	392.2	285,400*
	145	72.5	369.8	325,100*		145	73.4	390.7	279,600*
	150	71.7	368.1	318,800*		150	72.7	389.2	273,800*
	155	70.9	366.4	312,500*		155	71.9	387.6	268,000*
	160	70.1	364.6	306,200*		160	71.2	385.9	262,200*
	165	69.3	362.8	299,900*		165	70.4	384.1	256,400*
	170	68.5	360.8	293,600*		170	69.6	382.2	250,600*
	175	67.7	358.8	287,200*		175	68.9	380.3	244,800*
	180	66.9	356.6	281,000*		180	68.1	378.3	239,000*
	185	66.1	354.4	274,700*		185	67.3	376.2	233,300*
	190	65.2	352.1	268,600*		190	66.6	374.1	227,700*
	195	64.4	349.7	262,400*		195	65.8	371.8	222,000*
	200	63.6	347.3	256,300*		200	65.0	369.5	216,300*
	205	62.7	344.7	250,100*		205	64.2	367.1	210,800*
	210	61.9	342.0	244,100*		210	63.4	364.6	205,200*
	215	61.0	339.3	238,100*		215	62.6	362.0	199,800*
	220	60.1	336.4	232,300*		220	61.8	359.4	194,400*
	225	59.3	333.5	226,400*		225	60.9	356.6	189,100*
	230	58.4	330.4	220,700*		230	60.1	353.8	183,800*
	235	57.5	327.2	215,000*		235	59.3	350.8	178,500*
	240	56.6	324.0	209,300*		240	58.5	347.7	173,300*
	245	55.7	320.6	203,600*		245	57.6	344.6	168,200*
	250	54.7	317.0	198,000*		250	56.7	341.3	163,100*
	255	53.8	313.4	192,500*		255	55.9	338.0	158,100*
	260	52.9	309.6	187,100*		260	55.0	334.5	153,100*
	265	51.9	305.8	181,700*		265	54.1	330.9	148,200*
	270	50.9	301.7	176,400*		270	53.2	327.2	143,400*
	275	50.0	297.6	171,100*		275	52.3	323.3	138,600*
	280	49.0	293.2	166,000*		280	51.4	319.4	133,900*
	285	48.0	288.8	160,800*		285	50.5	315.3	129,200*
	290	46.9	284.1	155,700*		290	49.6	311.0	124,600*
	295	45.9	279.3	150,700*		295	48.6	306.7	120,100*
	300	44.8	274.3	145,700*		300	47.6	302.1	115,700*
	305	43.7	269.1	140,700*		305	46.7	297.4	111,300*
	310	42.6	263.7	135,700*		310	45.7	292.6	107,000*
	315	41.5	258.1	130,700*		315	44.6	287.6	102,800*
	320	40.3	252.3	125,700*		320	43.6	282.4	98,600*
	325	39.1	246.2	120,700*		325	42.6	277.0	94,400*
	330	37.9	239.9	115,700*		330	41.5	271.4	90,200*
	335	36.7	233.2	110,700*					
	340	35.4	226.3	105,700*					
	345	34.0	219.0	100,700*					