

Liftcrane Boom Capacities

4600 SERIES 4 RINGER SERIES 3

Boom No. 65
60 ft RINGER Attachment On
Blocking Or Pedestals
123,000 lb Crane Counterweight
174,100 lb Auxiliary Counterweight
Barge Mount - 0 Degree thru 2 Degree Static Machine List
360 Degree Rating

LIFTING CAPACITIES: Lifting capacities are for a RINGER when operating on a barge. Machine shall be positively secured to prevent shifting. Lifting 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 lb for 1-1/4 in. wire rope, 45,000 lb for 1-3/8 in. wire rope and 50,000 lb for 1-1/2 in. or 1-5/8 in. wire rope. Capacities for two part line are 88,000 lb for 1-1/4 in. wire rope, 90,000 lb for 1-3/8 in. wire rope and 100,000 lb for 1-1/2 in. or 1-5/8 in. 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 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.

OPERATING CONDITIONS: Machine to operate on a firm uniformly supporting surface with roller path properly supported and machine list not to exceed degrees noted with exception of 0 degree machine list which must not

exceed 1-1/4 in. in 60 ft. Refer to boom 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: Operating radius is horizontal distance from axis of rotation at barge deck 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: Boom point elevation is vertical distance from barge deck to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 60 ft RINGER attachment, 30 ft 5 in. crawlers, 60 in. treads, 33 ft retractable gantry, 130 ft mast, 18 part boom hoist reeving, eight 1-3/8 in. boom pendants, 123,000 lb crane counterweight. (120,000 lb with counterweight assembly **No. 49667**) and 174,100 lb auxiliary counterweight.

Warning: Check amount of auxiliary counterweight on machine before use of this chart.

Maximum Boom Lengths Lifted Unassisted	
List	Boom Length
0 Degree	360 ft
1/2 Degree	340 ft
1 Degree	280 ft
2 Degree	200 ft
Load block, hook and weight ball on barge deck until combined weights are within rated capacity of chart.	

Jib must be removed before use of this chart.

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Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1/2 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	Oper. Radius Feet
140.0 ft							
55	80.1	145.5	1,058,300	485,900 *	395,900 *		55
60	78.0	144.4	881,900	443,800 *	360,500 *	273,300 *	60
65	75.9	143.2	754,000	408,200 *	330,500 *	249,200 *	65
70	73.8	141.8	657,100	377,700 *	304,800 *	228,500 *	70
75	71.6	140.1	581,100	351,200 *	282,500 *	210,600 *	75
80	69.5	138.3	519,900	328,100 *	263,000 *	194,900 *	80
85	67.2	136.2	469,500	307,700 *	245,800 *	181,100 *	85
90	65.0	133.9	427,400	289,500 *	230,500 *	168,800 *	90
95	62.7	131.4	391,600	273,200 *	216,800 *	157,800 *	95
100	60.3	128.6	360,800	258,600 *	204,500 *	147,900 *	100
105	57.9	125.5	334,100	245,400 *	193,400 *	138,900 *	105
110	55.5	122.1	310,600	233,400 *	183,200 *	130,800 *	110
115	52.9	118.4	289,800	222,400 *	174,000 *	123,400 *	115
120	50.3	114.3	271,400	212,300 *	165,500 *	116,500 *	120
125	47.5	109.8	254,800	203,000 *	157,700 *	110,200 *	125
130	44.7	104.9	239,900	194,500 *	150,500 *	104,500 *	130
135	41.6	99.4	226,300	186,600 *	143,800 *	99,100 *	135
140	38.4	93.2	214,000	179,200 *	137,600 *	94,100 *	140
145	34.9	86.3	202,800	172,300 *	131,800 *	89,400 *	145
150	31.0	78.4	192,400	166,000 *	126,400 *	85,100 *	150
155	26.7	69.0	182,900	160,000 *	121,400 *	81,000 *	155
160	21.5	57.3	174,100	154,300 *	116,700 *	77,200 *	160

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180.0 ft							
60	80.7	185.2	874,500	439,400 *	353,600 *		60
65	79.1	184.3	746,500	403,800 *	323,800 *		65
70	77.5	183.2	649,600	373,400 *	298,200 *		70
75	75.8	181.9	573,500	347,000 *	276,000 *	201,800 *	75
80	74.2	180.6	512,300	323,900 *	256,600 *	186,200 *	80
85	72.5	179.0	461,900	303,600 *	239,500 *	172,500 *	85
90	70.8	177.3	419,800	285,500 *	224,300 *	160,300 *	90
95	69.1	175.4	384,000	269,200 *	210,700 *	149,400 *	95
100	67.4	173.3	353,200	254,700 *	198,400 *	139,600 *	100
105	65.7	171.1	326,400	241,500 *	187,400 *	130,800 *	105
110	63.9	168.7	303,000	229,500 *	177,300 *	122,700 *	110
115	62.1	166.1	282,200	218,500 *	168,100 *	115,300 *	115
120	60.3	163.2	263,700	208,500 *	159,600 *	108,500 *	120
125	58.4	160.2	247,200	199,200 *	151,900 *	102,300 *	125
130	56.5	156.9	232,200	190,700 *	144,700 *	96,600 *	130
135	54.6	153.4	218,700	182,800 *	138,100 *	91,300 *	135
140	52.6	149.6	206,400	175,500 *	131,900 *	86,300 *	140
145	50.5	145.6	195,200	168,700 *	126,200 *	81,700 *	145
150	48.4	141.2	184,800	162,300 *	120,800 *	77,400 *	150
155	46.2	136.5	175,300	156,300 *	115,800 *	73,400 *	155
160	43.9	131.4	166,500	150,700 *	111,100 *	69,700 *	160
165	41.6	125.8	158,400	145,500 *	106,700 *	66,100 *	165
170	39.1	119.8	150,800	140,500 *	102,500 *	62,800 *	170
175	36.4	113.2	143,700	135,900 *	98,600 *	59,600 *	175
180	33.6	105.9	137,100	131,500 *	94,900 *	56,700 *	180
185	30.6	97.7	131,000	127,300 *	91,400 *	53,800 *	185
190	27.2	88.4	125,200	123,400 *	88,100 *	51,200 *	190
195	23.4	77.5	119,700	118,600	84,900 *		195
200	18.8	64.2	114,600	113,600	81,900 *		200

Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



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Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1/2 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	Oper. Radius Feet
200.0 ft							
60	81.7	205.5	871,700				60
65	80.2	204.7	743,800	402,100 *	321,100 *		65
70	78.7	203.7	646,800	371,700 *	295,600 *		70
75	77.3	202.6	570,700	345,400 *	273,500 *		75
80	75.8	201.3	509,500	322,300 *	254,100 *		80
85	74.3	199.9	459,100	302,000 *	237,100 *	169,200 *	85
90	72.8	198.4	417,000	283,900 *	221,900 *	157,100 *	90
95	71.3	196.7	381,200	267,700 *	208,300 *	146,200 *	95
100	69.8	194.9	350,400	253,100 *	196,100 *	136,400 *	100
105	68.2	192.9	323,600	240,000 *	185,000 *	127,600 *	105
110	66.7	190.8	300,100	228,000 *	175,000 *	119,500 *	110
115	65.1	188.5	279,400	217,000 *	165,800 *	112,200 *	115
120	63.5	186.0	260,900	207,000 *	157,400 *	105,500 *	120
125	61.9	183.4	244,400	197,800 *	149,600 *	99,300 *	125
130	60.2	180.6	229,400	189,300 *	142,500 *	93,600 *	130
135	58.6	177.5	215,900	181,400 *	135,900 *	88,300 *	135
140	56.9	174.3	203,600	174,100 *	129,700 *	83,400 *	140
145	55.1	170.9	192,300	167,300 *	124,000 *	78,800 *	145
150	53.3	167.2	182,000	160,900 *	118,700 *	74,500 *	150
155	51.5	163.2	172,500	154,900 *	113,700 *	70,500 *	155
160	49.7	159.1	163,700	149,400 *	109,000 *	66,800 *	160
165	47.7	154.6	155,600	144,100 *	104,600 *	63,200 *	165
170	45.7	149.8	148,000	139,200 *	100,400 *	59,900 *	170
175	43.7	144.6	140,900	134,500 *	96,500 *	56,800 *	175
180	41.6	139.1	134,300	130,100 *	92,800 *	53,800 *	180
185	39.3	133.1	128,200	126,000 *	89,300 *	51,000 *	185
190	37.0	126.6	122,400	120,700	86,000 *		190
195	34.5	119.5	116,900	115,400	82,900 *		195
200	31.8	111.7	111,800	110,400	79,900 *		200
205	28.9	102.9	107,000	105,700	77,100 *		205
210	25.8	93.0	102,400	101,300	74,400 *		210
215	22.1	81.4	98,100	97,100	71,800 *		215
220	17.8	67.3	93,900	93,100	69,300 *		220

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Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1/2 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	Oper. Radius Feet
220.0 ft						
65	81.1	225.0	741,300	400,500 *		65
70	79.8	224.1	644,300	370,100 *	293,200 *	70
75	78.5	223.1	568,200	343,800 *	271,100 *	75
80	77.1	221.9	507,000	320,800 *	251,800 *	80
85	75.8	220.7	456,600	300,500 *	234,800 *	85
90	74.4	219.3	414,400	282,400 *	219,700 *	90
95	73.1	217.8	378,600	266,300 *	206,100 *	95
100	71.7	216.1	347,800	251,700 *	193,900 *	100
105	70.3	214.4	321,100	238,600 *	182,900 *	105
110	68.9	212.5	297,600	226,600 *	172,900 *	110
115	67.5	210.4	276,800	215,700 *	163,700 *	115
120	66.1	208.2	258,300	205,700 *	155,300 *	120
125	64.6	205.9	241,800	196,400 *	147,600 *	125
130	63.2	203.4	226,900	187,900 *	140,500 *	130
135	61.7	200.7	213,300	180,100 *	133,900 *	135
140	60.2	197.9	201,000	172,800 *	127,700 *	140
145	58.7	194.9	189,800	166,000 *	122,000 *	145
150	57.2	191.7	179,400	159,600 *	116,700 *	150
155	55.6	188.3	169,900	153,700 *	111,700 *	155
160	54.0	184.7	161,100	148,100 *	107,000 *	160
165	52.3	180.9	153,000	142,800 *	102,600 *	165
170	50.7	176.8	145,400	137,900 *	98,500 *	170
175	48.9	172.5	138,400	133,300 *	94,600 *	175
180	47.2	167.9	131,800	128,900 *	90,900 *	180
185	45.4	163.1	125,600	123,500	87,400 *	185
190	43.5	157.9	119,800	117,800	84,100 *	190
195	41.5	152.3	114,400	112,600	81,000 *	195
200	39.5	146.3	109,300	107,600	78,000 *	200
205	37.4	139.9	104,400	102,900	75,200 *	205
210	35.2	133.0	99,900	98,400	72,500 *	210
215	32.8	125.4	95,500	94,200	69,900 *	215
220	30.3	117.1	91,400	90,200	67,500 *	220
225	27.5	107.8	87,500	86,500	65,100 *	225
230	24.5	97.4	83,800	82,900	62,900 *	230
235	21.1	85.2	80,300	79,400	60,700 *	235
240	17.0	70.2	76,900	76,200	58,700 *	240

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Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1/2 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	Oper. Radius Feet
240.0 ft						
65	81.9	245.2	738,800			65
70	80.6	244.4	641,800	368,600 *		70
75	79.4	243.5	565,700	342,300 *	268,800 *	75
80	78.2	242.4	504,500	319,300 *	249,600 *	80
85	77.0	241.3	454,100	299,000 *	232,600 *	85
90	75.8	240.0	411,900	281,000 *	217,500 *	90
95	74.5	238.7	376,100	264,900 *	204,000 *	95
100	73.3	237.2	345,300	250,300 *	191,800 *	100
105	72.0	235.6	318,500	237,200 *	180,800 *	105
110	70.8	233.8	295,100	225,200 *	170,800 *	110
115	69.5	232.0	274,300	214,300 *	161,700 *	115
120	68.2	230.0	255,800	204,300 *	153,300 *	120
125	66.9	227.9	239,300	195,100 *	145,600 *	125
130	65.6	225.6	224,300	186,600 *	138,500 *	130
135	64.3	223.2	210,800	178,800 *	131,900 *	135
140	62.9	220.7	198,500	171,500 *	125,800 *	140
145	61.6	218.0	187,200	164,700 *	120,100 *	145
150	60.2	215.2	176,900	158,300 *	114,700 *	150
155	58.8	212.2	167,400	152,400 *	109,800 *	155
160	57.4	209.0	158,600	146,800 *	105,100 *	160
165	56.0	205.7	150,500	141,600 *	100,700 *	165
170	54.5	202.1	142,900	136,700 *	96,600 *	170
175	53.0	198.4	135,800	132,000 *	92,700 *	175
180	51.5	194.5	129,300	126,600	89,000 *	180
185	49.9	190.3	123,100	120,700	85,600 *	185
190	48.3	185.9	117,300	115,100	82,300 *	190
195	46.7	181.3	111,900	109,800	79,200 *	195
200	45.0	176.3	106,700	104,800	76,200 *	200
205	43.3	171.1	101,900	100,100	73,400 *	205
210	41.5	165.5	97,300	95,700	70,700 *	210
215	39.7	159.6	93,000	91,500	68,100 *	215
220	37.7	153.2	88,900	87,500	65,700 *	220
225	35.7	146.4	85,000	83,700	63,300 *	225
230	33.6	139.1	81,300	80,100	61,100 *	230
235	31.4	131.1	77,800	76,700	58,900 *	235
240	28.9	122.3	74,500	73,400	56,900 *	240
245	26.3	112.5	71,300	70,300	54,900 *	245
250	23.4	101.5	68,200	67,300	53,000 *	250
255	20.1	88.7	65,300	64,500	51,200 *	255
260	16.2	73.1	62,500	61,800		260

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260.0 ft						
70	81.4	264.7	639,200	367,000 *		70
75	80.3	263.8	563,100	340,800 *		75
80	79.1	262.9	501,900	317,800 *	247,200 *	80
85	78.0	261.8	451,500	297,500 *	230,300 *	85
90	76.9	260.7	409,300	279,500 *	215,200 *	90
95	75.7	259.4	373,500	263,400 *	201,700 *	95
100	74.6	258.0	342,700	248,900 *	189,600 *	100
105	73.4	256.6	315,900	235,800 *	178,600 *	105
110	72.3	255.0	292,400	223,800 *	168,600 *	110
115	71.1	253.3	271,700	212,900 *	159,500 *	115
120	70.0	251.5	253,200	203,000 *	151,200 *	120
125	68.8	249.6	236,600	193,800 *	143,500 *	125
130	67.6	247.5	221,700	185,300 *	136,400 *	130
135	66.4	245.3	208,200	177,400 *	129,800 *	135
140	65.2	243.0	195,800	170,100 *	123,700 *	140
145	63.9	240.6	184,600	163,300 *	118,000 *	145
150	62.7	238.1	174,300	157,000 *	112,700 *	150
155	61.5	235.4	164,700	151,100 *	107,800 *	155
160	60.2	232.5	156,000	145,500 *	103,100 *	160
165	58.9	229.5	147,800	140,300 *	98,700 *	165
170	57.6	226.4	140,200	135,400 *	94,600 *	170
175	56.3	223.1	133,200	130,100	90,800 *	175
180	54.9	219.6	126,600	123,700	87,100 *	180
185	53.6	215.9	120,400	117,800	83,600 *	185
190	52.2	212.1	114,700	112,200	80,300 *	190
195	50.8	208.0	109,200	106,900	77,200 *	195
200	49.3	203.8	104,100	101,900	74,300 *	200
205	47.8	199.3	99,300	97,200	71,400 *	205
210	46.3	194.6	94,700	92,800	68,800 *	210
215	44.8	189.6	90,400	88,600	66,200 *	215
220	43.2	184.3	86,300	84,600	63,800 *	220
225	41.5	178.8	82,400	80,900	61,400 *	225
230	39.8	172.8	78,700	77,300	59,200 *	230
235	38.0	166.6	75,200	73,900	57,100 *	235
240	36.2	159.8	71,800	70,600	55,000 *	240
245	34.3	152.6	68,600	67,500	53,000 *	245
250	32.2	144.9	65,600	64,500	51,200 *	250
255	30.1	136.5	62,700	61,700		255
260	27.8	127.3	59,900	59,000		260
265	25.3	117.0	57,200	56,300		265
270	22.5	105.5	54,600	53,900		270
275	19.3	92.1	52,100	51,500		275

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280.0 ft						
70	82.0	284.9	636,500			70
75	81.0	284.1	560,400	339,300 *		75
80	79.9	283.2	499,200	316,300 *		80
85	78.9	282.3	448,800	296,100 *	228,000 *	85
90	77.8	281.2	406,600	278,100 *	213,000 *	90
95	76.8	280.0	370,800	262,000 *	199,500 *	95
100	75.7	278.8	340,000	247,500 *	187,400 *	100
105	74.7	277.4	313,200	234,400 *	176,500 *	105
110	73.6	276.0	289,700	222,400 *	166,500 *	110
115	72.5	274.4	268,900	211,600 *	157,400 *	115
120	71.4	272.7	250,500	201,600 *	149,100 *	120
125	70.4	271.0	233,900	192,400 *	141,400 *	125
130	69.3	269.1	219,000	183,900 *	134,300 *	130
135	68.2	267.1	205,400	176,100 *	127,800 *	135
140	67.1	265.0	193,100	168,800 *	121,700 *	140
145	65.9	262.8	181,900	162,000 *	116,000 *	145
150	64.8	260.4	171,500	155,700 *	110,700 *	150
155	63.7	258.0	162,000	149,800 *	105,800 *	155
160	62.5	255.4	153,200	144,200 *	101,100 *	160
165	61.4	252.7	145,100	139,000 *	96,700 *	165
170	60.2	249.8	137,500	133,900	92,600 *	170
175	59.0	246.8	130,500	127,100	88,800 *	175
180	57.8	243.7	123,900	120,700	85,100 *	180
185	56.6	240.4	117,700	114,800	81,700 *	185
190	55.3	237.0	111,900	109,200	78,400 *	190
195	54.1	233.4	106,500	103,900	75,300 *	195
200	52.8	229.6	101,400	99,000	72,300 *	200
205	51.5	225.7	96,500	94,300	69,500 *	205
210	50.1	221.6	92,000	89,900	66,800 *	210
215	48.8	217.2	87,700	85,700	64,300 *	215
220	47.4	212.7	83,600	81,700	61,800 *	220
225	46.0	207.9	79,700	77,900	59,500 *	225
230	44.5	202.9	76,000	74,400	57,300 *	230
235	43.0	197.6	72,500	70,900	55,200 *	235
240	41.5	192.0	69,100	67,700	53,100 *	240
245	39.9	186.1	65,900	64,600	51,200 *	245
250	38.3	179.9	62,900	61,600		250
255	36.6	173.2	59,900	58,800		255
260	34.8	166.2	57,200	56,100		260
265	33.0	158.6	54,500	53,400		265
270	31.0	150.5	51,900	51,000		270

Liftcrane Boom Capacities

4600 SERIES 4 RINGER SERIES 3

Boom No. 65
 60 ft RINGER Attachment On
 Blocking Or Pedestals
 123,000 lb Crane Counterweight
 174,100 lb Auxiliary Counterweight
 Barge Mount - 0 Degree thru 2 Degree Static Machine List
 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1/2 Degree List Boom Capacity Pounds
300.0 ft				
75	81.6	304.4	557,500	
80	80.6	303.5	496,200	314,600 *
85	79.6	302.6	445,800	294,400 *
90	78.7	301.6	403,600	276,400 *
95	77.7	300.6	367,700	260,300 *
100	76.7	299.4	336,900	245,900 *
105	75.7	298.1	310,200	232,800 *
110	74.7	296.8	286,700	220,900 *
115	73.7	295.3	265,900	210,000 *
120	72.7	293.8	247,400	200,000 *
125	71.7	292.1	230,900	190,900 *
130	70.7	290.4	215,900	182,400 *
135	69.7	288.6	202,400	174,600 *
140	68.7	286.6	190,100	167,300 *
145	67.6	284.6	178,800	160,500 *
150	66.6	282.4	168,500	154,200 *
155	65.5	280.2	159,000	148,300 *
160	64.5	277.8	150,200	142,700 *
165	63.4	275.3	142,000	137,500 *
170	62.3	272.7	134,500	130,500
175	61.3	270.0	127,400	123,800
180	60.2	267.1	120,800	117,400
185	59.1	264.2	114,700	111,500
190	57.9	261.1	108,900	105,900
195	56.8	257.8	103,400	100,700
200	55.6	254.4	98,300	95,700
205	54.5	250.9	93,500	91,000
210	53.3	247.2	88,900	86,600
215	52.1	243.3	84,600	82,400
220	50.8	239.3	80,500	78,500
225	49.6	235.0	76,600	74,700
230	48.3	230.6	72,900	71,100
235	47.0	226.0	69,400	67,700
240	45.7	221.2	66,100	64,500
245	44.3	216.1	62,900	61,400
250	42.9	210.8	59,800	58,400
255	41.5	205.2	56,900	55,600
260	40.0	199.3	54,100	52,900
265	38.5	193.1	51,400	50,300

Liftcrane Boom Capacities

4600 SERIES 4 RINGER SERIES 3

Boom No. 65
 60 ft RINGER Attachment On
 Blocking Or Pedestals
 123,000 lb Crane Counterweight
 174,100 lb Auxiliary Counterweight
 Barge Mount - 0 Degree thru 2 Degree Static Machine List
 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1/2 Degree List Boom Capacity Pounds
320.0 ft				
80	81.2	323.8	493,800	
85	80.3	323.0	443,400	
90	79.4	322.0	401,200	275,100 *
95	78.5	321.0	365,400	259,000 *
100	77.5	319.9	334,600	244,600 *
105	76.6	318.8	307,800	231,500 *
110	75.7	317.5	284,300	219,600 *
115	74.8	316.1	263,500	208,800 *
120	73.8	314.7	245,000	198,800 *
125	72.9	313.2	228,500	189,600 *
130	72.0	311.6	213,500	181,200 *
135	71.0	309.9	200,000	173,400 *
140	70.1	308.0	187,700	166,100 *
145	69.1	306.1	176,400	159,300 *
150	68.1	304.2	166,100	153,000 *
155	67.2	302.1	156,600	147,100 *
160	66.2	299.9	147,800	141,600 *
165	65.2	297.6	139,600	135,100
170	64.2	295.2	132,100	127,900
175	63.2	292.7	125,000	121,100
180	62.2	290.0	118,400	114,800
185	61.2	287.3	112,300	108,900
190	60.2	284.5	106,500	103,300
195	59.1	281.5	101,000	98,100
200	58.1	278.4	95,900	93,100
205	57.0	275.2	91,100	88,500
210	55.9	271.8	86,500	84,000
215	54.8	268.3	82,200	79,900
220	53.7	264.7	78,100	75,900
225	52.6	260.9	74,200	72,200
230	51.4	256.9	70,500	68,600
235	50.3	252.8	67,000	65,200
240	49.1	248.5	63,700	61,900
245	47.9	244.0	60,500	58,800
250	46.7	239.4	57,400	55,900
255	45.4	234.5	54,500	53,000
260	44.1	229.4	51,700	50,300

Liftcrane Boom Capacities

4600 SERIES 4 RINGER SERIES 3

Boom No. 65
 60 ft RINGER Attachment On
 Blocking Or Pedestals
 123,000 lb Crane Counterweight
 174,100 lb Auxiliary Counterweight
 Barge Mount - 0 Degree thru 2 Degree Static Machine List
 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1/2 Degree List Boom Capacity Pounds
340.0 ft				
80	81.7	344.1	490,800	
85	80.9	343.3	440,300	
90	80.0	342.4	398,100	
95	79.1	341.5	362,300	
100	78.3	340.4	331,500	243,000 *
105	77.4	339.3	304,700	229,900 *
110	76.6	338.1	281,200	218,000 *
115	75.7	336.9	260,400	207,200 *
120	74.8	335.5	241,900	197,200 *
125	73.9	334.1	225,400	188,100 *
130	73.1	332.6	210,400	179,600 *
135	72.2	331.0	196,900	171,800 *
140	71.3	329.3	184,600	164,600 *
145	70.4	327.5	173,300	157,800 *
150	69.5	325.7	163,000	151,500 *
155	68.6	323.7	153,500	145,600 *
160	67.7	321.7	144,700	139,500
165	66.8	319.5	136,500	131,700
170	65.8	317.3	129,000	124,500
175	64.9	315.0	121,900	117,800
180	64.0	312.5	115,300	111,500
185	63.0	310.0	109,100	105,500
190	62.1	307.4	103,400	100,000
195	61.1	304.6	97,900	94,800
200	60.1	301.8	92,800	89,800
205	59.2	298.8	88,000	85,200
210	58.2	295.7	83,400	80,800
215	57.2	292.5	79,100	76,600
220	56.2	289.2	75,000	72,700
225	55.1	285.7	71,100	68,900
230	54.1	282.1	67,400	65,300
235	53.0	278.4	63,900	61,900
240	52.0	274.5	60,600	58,700
245	50.9	270.5	57,400	55,600
250	49.8	266.3	54,300	52,700
255	48.7	261.9	51,400	

Liftcrane Boom Capacities

4600 SERIES 4 RINGER SERIES 3

Boom No. 65
 60 ft RINGER Attachment On
 Blocking Or Pedestals
 123,000 lb Crane Counterweight
 174,100 lb Auxiliary Counterweight
 Barge Mount - 0 Degree thru 2 Degree Static Machine List
 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds
360.0 ft			
90	80.6	362.7	395,700
95	79.8	361.8	359,900
100	78.9	360.9	329,000
105	78.1	359.8	302,300
110	77.3	358.7	278,800
115	76.5	357.5	258,000
120	75.7	356.2	239,500
125	74.9	354.9	222,900
130	74.0	353.5	208,000
135	73.2	352.0	194,500
140	72.4	350.4	182,100
145	71.5	348.7	170,900
150	70.7	347.0	160,500
155	69.8	345.1	151,000
160	69.0	343.2	142,200
165	68.1	341.2	134,100
170	67.3	339.2	126,500
175	66.4	337.0	119,500
180	65.5	334.7	112,900
185	64.6	332.4	106,700
190	63.8	329.9	100,900
195	62.9	327.4	95,500
200	62.0	324.7	90,400
205	61.1	322.0	85,500
210	60.1	319.1	81,000
215	59.2	316.1	76,600
220	58.3	313.1	72,500
225	57.3	309.9	68,700
230	56.4	306.6	65,000
235	55.4	303.1	61,400
240	54.4	299.6	58,100
245	53.4	295.9	54,900
250	52.4	292.1	51,900