

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
442,300 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 442,300 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	400 ft
1/2 Degree	360 ft
1 Degree	320 ft
2 Degree	240 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	1,499,400	529,000 *	462,000 *		55
60	78.0	144.4	1,252,600	483,300 *	421,100 *	355,900 *	60
65	75.9	143.2	1,073,700	444,700 *	386,400 *	325,500 *	65
70	73.8	141.8	938,100	411,600 *	356,700 *	299,400 *	70
75	71.6	140.1	831,800	382,800 *	331,000 *	276,700 *	75
80	69.5	138.3	746,100	357,700 *	308,500 *	256,900 *	80
85	67.2	136.2	675,700	335,500 *	288,600 *	239,400 *	85
90	65.0	133.9	616,800	315,800 *	270,900 *	223,900 *	90
95	62.7	131.4	566,700	298,200 *	255,100 *	210,000 *	95
100	60.3	128.6	523,600	282,300 *	240,900 *	197,500 *	100
105	57.9	125.5	486,200	268,000 *	228,000 *	186,200 *	105
110	55.5	122.1	453,400	254,900 *	216,300 *	175,900 *	110
115	52.9	118.4	424,400	243,000 *	205,600 *	166,500 *	115
120	50.3	114.3	398,600	232,000 *	195,800 *	157,900 *	120
125	47.5	109.8	375,400	222,000 *	186,800 *	149,900 *	125
130	44.7	104.9	354,500	212,700 *	178,400 *	142,600 *	130
135	41.6	99.4	335,600	204,100 *	170,700 *	135,800 *	135
140	38.4	93.2	318,400	196,100 *	163,600 *	129,500 *	140
145	34.9	86.3	302,600	188,700 *	156,900 *	123,600 *	145
150	31.0	78.4	288,200	181,700 *	150,700 *	118,200 *	150
155	26.7	69.0	274,800	175,300 *	144,800 *	113,000 *	155
160	21.5	57.3	262,500	169,200 *	139,400 *	108,200 *	160

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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
180.0 ft							
60	80.7	185.2	1,245,200	478,900 *	414,200 *		60
65	79.1	184.3	1,066,300	440,300 *	379,700 *		65
70	77.5	183.2	930,600	407,300 *	350,100 *		70
75	75.8	181.9	824,200	378,600 *	324,500 *	267,900 *	75
80	74.2	180.6	738,600	353,500 *	302,100 *	248,200 *	80
85	72.5	179.0	668,100	331,400 *	282,300 *	230,900 *	85
90	70.8	177.3	609,200	311,800 *	264,700 *	215,400 *	90
95	69.1	175.4	559,100	294,200 *	249,000 *	201,600 *	95
100	67.4	173.3	516,000	278,400 *	234,800 *	189,200 *	100
105	65.7	171.1	478,600	264,000 *	222,000 *	178,000 *	105
110	63.9	168.7	445,800	251,000 *	210,300 *	167,800 *	110
115	62.1	166.1	416,800	239,100 *	199,700 *	158,400 *	115
120	60.3	163.2	390,900	228,200 *	189,900 *	149,900 *	120
125	58.4	160.2	367,800	218,200 *	181,000 *	142,000 *	125
130	56.5	156.9	346,900	208,900 *	172,700 *	134,700 *	130
135	54.6	153.4	328,000	200,400 *	165,000 *	128,000 *	135
140	52.6	149.6	310,700	192,400 *	157,900 *	121,700 *	140
145	50.5	145.6	295,000	185,000 *	151,200 *	115,900 *	145
150	48.4	141.2	280,600	178,100 *	145,100 *	110,500 *	150
155	46.2	136.5	267,300	171,600 *	139,300 *	105,400 *	155
160	43.9	131.4	255,000	165,500 *	133,800 *	100,600 *	160
165	41.6	125.8	243,600	159,800 *	128,700 *	96,200 *	165
170	39.1	119.8	233,000	154,500 *	123,900 *	91,900 *	170
175	36.4	113.2	223,100	149,400 *	119,400 *	88,000 *	175
180	33.6	105.9	213,900	144,600 *	115,100 *	84,200 *	180
185	30.6	97.7	205,300	140,100 *	111,100 *	80,700 *	185
190	27.2	88.4	197,200	135,800 *	107,200 *	77,300 *	190
195	23.4	77.5	189,500	131,800 *	103,600 *	74,100 *	195
200	18.8	64.2	182,400	127,900 *	100,100 *	71,000 *	200

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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	1,242,500				60
65	80.2	204.7	1,063,500	438,600 *	377,000 *		65
70	78.7	203.7	927,800	405,600 *	347,500 *		70
75	77.3	202.6	821,500	377,000 *	322,000 *		75
80	75.8	201.3	735,800	351,900 *	299,600 *		80
85	74.3	199.9	665,300	329,800 *	279,800 *	227,500 *	85
90	72.8	198.4	606,400	310,200 *	262,300 *	212,100 *	90
95	71.3	196.7	556,300	292,600 *	246,600 *	198,400 *	95
100	69.8	194.9	513,200	276,800 *	232,400 *	186,000 *	100
105	68.2	192.9	475,800	262,500 *	219,700 *	174,800 *	105
110	66.7	190.8	443,000	249,500 *	208,000 *	164,600 *	110
115	65.1	188.5	413,900	237,600 *	197,400 *	155,300 *	115
120	63.5	186.0	388,100	226,800 *	187,700 *	146,800 *	120
125	61.9	183.4	364,900	216,700 *	178,700 *	138,900 *	125
130	60.2	180.6	344,100	207,500 *	170,500 *	131,700 *	130
135	58.6	177.5	325,100	198,900 *	162,800 *	125,000 *	135
140	56.9	174.3	307,900	191,000 *	155,700 *	118,800 *	140
145	55.1	170.9	292,200	183,600 *	149,100 *	113,000 *	145
150	53.3	167.2	277,700	176,700 *	142,900 *	107,600 *	150
155	51.5	163.2	264,400	170,200 *	137,100 *	102,500 *	155
160	49.7	159.1	252,200	164,200 *	131,700 *	97,700 *	160
165	47.7	154.6	240,800	158,500 *	126,600 *	93,300 *	165
170	45.7	149.8	230,200	153,100 *	121,800 *	89,100 *	170
175	43.7	144.6	220,300	148,100 *	117,300 *	85,100 *	175
180	41.6	139.1	211,100	143,300 *	113,000 *	81,400 *	180
185	39.3	133.1	202,500	138,800 *	109,000 *	77,800 *	185
190	37.0	126.6	194,400	134,500 *	105,200 *	74,500 *	190
195	34.5	119.5	186,800	130,400 *	101,500 *	71,300 *	195
200	31.8	111.7	179,600	126,600 *	98,100 *	68,300 *	200
205	28.9	102.9	172,900	122,900 *	94,800 *	65,400 *	205
210	25.8	93.0	166,500	119,400 *	91,700 *	62,600 *	210
215	22.1	81.4	160,400	116,100 *	88,700 *	60,000 *	215
220	17.8	67.3	154,700	112,900 *	85,800 *	57,500 *	220

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220.0 ft							
65	81.1	225.0	1,061,000	437,000 *			65
70	79.8	224.1	925,300	404,000 *	345,100 *		70
75	78.5	223.1	818,900	375,400 *	319,600 *		75
80	77.1	221.9	733,200	350,400 *	297,300 *		80
85	75.8	220.7	662,800	328,400 *	277,600 *		85
90	74.4	219.3	603,800	308,700 *	260,100 *	209,100 *	90
95	73.1	217.8	553,700	291,200 *	244,400 *	195,400 *	95
100	71.7	216.1	510,700	275,400 *	230,300 *	183,000 *	100
105	70.3	214.4	473,200	261,100 *	217,500 *	171,900 *	105
110	68.9	212.5	440,400	248,100 *	205,900 *	161,700 *	110
115	67.5	210.4	411,400	236,300 *	195,300 *	152,500 *	115
120	66.1	208.2	385,500	225,400 *	185,600 *	144,000 *	120
125	64.6	205.9	362,400	215,400 *	176,700 *	136,100 *	125
130	63.2	203.4	341,500	206,200 *	168,400 *	128,900 *	130
135	61.7	200.7	322,600	197,600 *	160,800 *	122,200 *	135
140	60.2	197.9	305,400	189,700 *	153,700 *	116,000 *	140
145	58.7	194.9	289,600	182,300 *	147,100 *	110,300 *	145
150	57.2	191.7	275,200	175,400 *	140,900 *	104,900 *	150
155	55.6	188.3	261,900	168,900 *	135,200 *	99,800 *	155
160	54.0	184.7	249,600	162,900 *	129,700 *	95,100 *	160
165	52.3	180.9	238,200	157,200 *	124,700 *	90,600 *	165
170	50.7	176.8	227,600	151,900 *	119,900 *	86,400 *	170
175	48.9	172.5	217,800	146,800 *	115,400 *	82,500 *	175
180	47.2	167.9	208,500	142,000 *	111,100 *	78,800 *	180
185	45.4	163.1	199,900	137,500 *	107,100 *	75,200 *	185
190	43.5	157.9	191,800	133,300 *	103,300 *	71,900 *	190
195	41.5	152.3	184,200	129,200 *	99,700 *	68,700 *	195
200	39.5	146.3	177,100	125,400 *	96,200 *	65,700 *	200
205	37.4	139.9	170,300	121,700 *	92,900 *	62,800 *	205
210	35.2	133.0	163,900	118,200 *	89,800 *	60,100 *	210
215	32.8	125.4	157,900	114,900 *	86,800 *	57,500 *	215
220	30.3	117.1	152,100	111,700 *	84,000 *	55,000 *	220
225	27.5	107.8	146,700	108,700 *	81,300 *	52,600 *	225
230	24.5	97.4	141,500	105,800 *	78,700 *	50,400 *	230
235	21.1	85.2	136,600	103,000 *	76,200 *		235
240	17.0	70.2	131,900	100,300 *	73,800 *		240

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240.0 ft							
65	81.9	245.2	1,009,900 *				65
70	80.6	244.4	922,800	402,500 *			70
75	79.4	243.5	816,400	373,900 *	317,300 *		75
80	78.2	242.4	730,800	348,900 *	295,000 *		80
85	77.0	241.3	660,300	326,900 *	275,300 *		85
90	75.8	240.0	601,300	307,300 *	257,900 *		90
95	74.5	238.7	551,200	289,800 *	242,200 *		95
100	73.3	237.2	508,100	274,000 *	228,100 *	180,100 *	100
105	72.0	235.6	470,700	259,800 *	215,400 *	169,000 *	105
110	70.8	233.8	437,900	246,800 *	203,800 *	158,900 *	110
115	69.5	232.0	408,900	234,900 *	193,300 *	149,700 *	115
120	68.2	230.0	383,000	224,100 *	183,600 *	141,200 *	120
125	66.9	227.9	359,800	214,100 *	174,600 *	133,400 *	125
130	65.6	225.6	339,000	204,900 *	166,400 *	126,200 *	130
135	64.3	223.2	320,000	196,300 *	158,800 *	119,500 *	135
140	62.9	220.7	302,800	188,400 *	151,700 *	113,300 *	140
145	61.6	218.0	287,100	181,000 *	145,100 *	107,600 *	145
150	60.2	215.2	272,600	174,100 *	139,000 *	102,200 *	150
155	58.8	212.2	259,300	167,700 *	133,200 *	97,200 *	155
160	57.4	209.0	247,100	161,600 *	127,800 *	92,500 *	160
165	56.0	205.7	235,700	156,000 *	122,800 *	88,000 *	165
170	54.5	202.1	225,100	150,600 *	118,000 *	83,900 *	170
175	53.0	198.4	215,200	145,600 *	113,500 *	79,900 *	175
180	51.5	194.5	206,000	140,800 *	109,200 *	76,200 *	180
185	49.9	190.3	197,400	136,300 *	105,200 *	72,700 *	185
190	48.3	185.9	189,300	132,000 *	101,400 *	69,400 *	190
195	46.7	181.3	181,700	128,000 *	97,800 *	66,200 *	195
200	45.0	176.3	174,500	124,200 *	94,400 *	63,200 *	200
205	43.3	171.1	167,800	120,500 *	91,100 *	60,300 *	205
210	41.5	165.5	161,400	117,000 *	88,000 *	57,600 *	210
215	39.7	159.6	155,400	113,700 *	85,000 *	55,000 *	215
220	37.7	153.2	149,600	110,500 *	82,200 *	52,500 *	220
225	35.7	146.4	144,200	107,500 *	79,500 *	50,200 *	225
230	33.6	139.1	139,000	104,600 *	76,900 *		230
235	31.4	131.1	134,100	101,800 *	74,400 *		235
240	28.9	122.3	129,400	99,200 *	72,000 *		240
245	26.3	112.5	125,000	96,600 *	69,700 *		245
250	23.4	101.5	120,700	94,100 *	67,500 *		250
260	16.2	73.1	112,700	89,500 *	63,400 *		260

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260.0 ft						
70	81.4	264.7	862,800 *	400,900 *		70
75	80.3	263.8	813,800	372,400 *		75
80	79.1	262.9	728,100	347,400 *	292,700 *	80
85	78.0	261.8	657,700	325,400 *	273,000 *	85
90	76.9	260.7	598,700	305,900 *	255,600 *	90
95	75.7	259.4	548,600	288,300 *	240,000 *	95
100	74.6	258.0	505,500	272,600 *	225,900 *	100
105	73.4	256.6	468,100	258,300 *	213,200 *	105
110	72.3	255.0	435,300	245,400 *	201,700 *	110
115	71.1	253.3	406,200	233,500 *	191,100 *	115
120	70.0	251.5	380,400	222,700 *	181,500 *	120
125	68.8	249.6	357,200	212,700 *	172,600 *	125
130	67.6	247.5	336,300	203,500 *	164,300 *	130
135	66.4	245.3	317,400	195,000 *	156,700 *	135
140	65.2	243.0	300,200	187,100 *	149,700 *	140
145	63.9	240.6	284,400	179,700 *	143,100 *	145
150	62.7	238.1	270,000	172,800 *	137,000 *	150
155	61.5	235.4	256,700	166,400 *	131,200 *	155
160	60.2	232.5	244,400	160,300 *	125,800 *	160
165	58.9	229.5	233,000	154,700 *	120,800 *	165
170	57.6	226.4	222,400	149,300 *	116,000 *	170
175	56.3	223.1	212,600	144,300 *	111,500 *	175
180	54.9	219.6	203,400	139,500 *	107,300 *	180
185	53.6	215.9	194,800	135,000 *	103,300 *	185
190	52.2	212.1	186,700	130,800 *	99,500 *	190
195	50.8	208.0	179,100	126,700 *	95,900 *	195
200	49.3	203.8	171,900	122,900 *	92,400 *	200
205	47.8	199.3	165,200	119,200 *	89,200 *	205
210	46.3	194.6	158,800	115,800 *	86,100 *	210
215	44.8	189.6	152,700	112,500 *	83,100 *	215
220	43.2	184.3	147,000	109,300 *	80,300 *	220
225	41.5	178.8	141,600	106,300 *	77,600 *	225
230	39.8	172.8	136,400	103,400 *	75,000 *	230
235	38.0	166.6	131,500	100,600 *	72,500 *	235
240	36.2	159.8	126,800	97,900 *	70,200 *	240
245	34.3	152.6	122,300	95,400 *	67,900 *	245
250	32.2	144.9	118,100	92,900 *	65,700 *	250
260	27.8	127.3	110,100	88,300 *	61,600 *	260
270	22.5	105.5	102,800	84,000 *	57,800 *	270
280	15.6	75.8	96,000	80,100 *	54,200 *	280

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280.0 ft						
70	82.0	284.9	759,800 *			70
75	81.0	284.1	748,200 *	370,900 *		75
80	79.9	283.2	725,500	345,900 *		80
85	78.9	282.3	655,000	323,900 *	270,800 *	85
90	77.8	281.2	596,000	304,400 *	253,400 *	90
95	76.8	280.0	545,900	286,900 *	237,800 *	95
100	75.7	278.8	502,800	271,200 *	223,800 *	100
105	74.7	277.4	465,400	256,900 *	211,100 *	105
110	73.6	276.0	432,500	244,000 *	199,500 *	110
115	72.5	274.4	403,500	232,200 *	189,000 *	115
120	71.4	272.7	377,600	221,300 *	179,400 *	120
125	70.4	271.0	354,500	211,400 *	170,500 *	125
130	69.3	269.1	333,600	202,200 *	162,300 *	130
135	68.2	267.1	314,700	193,600 *	154,700 *	135
140	67.1	265.0	297,500	185,700 *	147,600 *	140
145	65.9	262.8	281,700	178,400 *	141,100 *	145
150	64.8	260.4	267,300	171,500 *	134,900 *	150
155	63.7	258.0	254,000	165,100 *	129,200 *	155
160	62.5	255.4	241,700	159,000 *	123,800 *	160
165	61.4	252.7	230,300	153,400 *	118,800 *	165
170	60.2	249.8	219,700	148,000 *	114,000 *	170
175	59.0	246.8	209,800	143,000 *	109,500 *	175
180	57.8	243.7	200,600	138,300 *	105,300 *	180
185	56.6	240.4	192,000	133,800 *	101,300 *	185
190	55.3	237.0	183,900	129,500 *	97,500 *	190
195	54.1	233.4	176,300	125,500 *	93,900 *	195
200	52.8	229.6	169,200	121,600 *	90,500 *	200
205	51.5	225.7	162,400	118,000 *	87,200 *	205
210	50.1	221.6	156,000	114,500 *	84,100 *	210
215	48.8	217.2	150,000	111,200 *	81,200 *	215
220	47.4	212.7	144,300	108,000 *	78,400 *	220
225	46.0	207.9	138,800	105,000 *	75,700 *	225
230	44.5	202.9	133,700	102,100 *	73,100 *	230
235	43.0	197.6	128,800	99,400 *	70,600 *	235
240	41.5	192.0	124,100	96,700 *	68,300 *	240
245	39.9	186.1	119,600	94,200 *	66,000 *	245
250	38.3	179.9	115,400	91,700 *	63,800 *	250
260	34.8	166.2	107,400	87,100 *	59,700 *	260
270	31.0	150.5	100,000	82,800 *	55,900 *	270
280	26.7	132.0	93,300	78,900 *	52,400 *	280
290	21.6	109.3	87,100	75,200 *		290

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
 442,300 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	1 Degree List Boom Capacity Pounds	Oper. Radius Feet
300.0 ft						
75	81.6	304.4	653,500 *			75
80	80.6	303.5	643,900 *	344,200 *		80
85	79.6	302.6	634,100 *	322,300 *		85
90	78.7	301.6	593,000	302,800 *		90
95	77.7	300.6	542,900	285,300 *		95
100	76.7	299.4	499,800	269,600 *	221,300 *	100
105	75.7	298.1	462,300	255,300 *	208,600 *	105
110	74.7	296.8	429,500	242,400 *	197,100 *	110
115	73.7	295.3	400,500	230,600 *	186,600 *	115
120	72.7	293.8	374,600	219,800 *	177,000 *	120
125	71.7	292.1	351,400	209,800 *	168,100 *	125
130	70.7	290.4	330,600	200,600 *	159,900 *	130
135	69.7	288.6	311,600	192,100 *	152,400 *	135
140	68.7	286.6	294,400	184,200 *	145,300 *	140
145	67.6	284.6	278,700	176,900 *	138,800 *	145
150	66.6	282.4	264,200	170,000 *	132,700 *	150
155	65.5	280.2	250,900	163,600 *	126,900 *	155
160	64.5	277.8	238,600	157,600 *	121,600 *	160
165	63.4	275.3	227,200	151,900 *	116,500 *	165
170	62.3	272.7	216,700	146,600 *	111,800 *	170
175	61.3	270.0	206,800	141,600 *	107,300 *	175
180	60.2	267.1	197,600	136,800 *	103,100 *	180
185	59.1	264.2	189,000	132,300 *	99,100 *	185
190	57.9	261.1	180,900	128,100 *	95,300 *	190
195	56.8	257.8	173,300	124,000 *	91,700 *	195
200	55.6	254.4	166,100	120,200 *	88,300 *	200
205	54.5	250.9	159,400	116,600 *	85,100 *	205
210	53.3	247.2	153,000	113,100 *	82,000 *	210
215	52.1	243.3	146,900	109,800 *	79,000 *	215
220	50.8	239.3	141,200	106,600 *	76,200 *	220
225	49.6	235.0	135,800	103,600 *	73,500 *	225
230	48.3	230.6	130,600	100,700 *	71,000 *	230
235	47.0	226.0	125,700	98,000 *	68,500 *	235
240	45.7	221.2	121,000	95,300 *	66,100 *	240
245	44.3	216.1	116,600	92,800 *	63,900 *	245
250	42.9	210.8	112,300	90,300 *	61,700 *	250
260	40.0	199.3	104,300	85,700 *	57,600 *	260
270	36.9	186.6	97,000	81,500 *	53,800 *	270
280	33.6	172.2	90,300	77,500 *	50,300 *	280
290	29.9	155.8	84,000	73,800 *		290
300	25.8	136.6	78,300	70,400 *		300
310	20.9	113.0	72,900	67,200 *		310

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
 442,300 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	1 Degree List Boom Capacity Pounds	Oper. Radius Feet
320.0 ft						
80	81.2	323.8	567,200 *			80
85	80.3	323.0	559,000 *			85
90	79.4	322.0	550,700 *	301,400 *		90
95	78.5	321.0	540,500	284,000 *		95
100	77.5	319.9	497,400	268,300 *		100
105	76.6	318.8	460,000	254,100 *		105
110	75.7	317.5	427,100	241,200 *	195,200 *	110
115	74.8	316.1	398,100	229,400 *	184,700 *	115
120	73.8	314.7	372,200	218,600 *	175,100 *	120
125	72.9	313.2	349,100	208,600 *	166,200 *	125
130	72.0	311.6	328,200	199,400 *	158,100 *	130
135	71.0	309.9	309,200	190,900 *	150,500 *	135
140	70.1	308.0	292,000	183,000 *	143,500 *	140
145	69.1	306.1	276,300	175,700 *	136,900 *	145
150	68.1	304.2	261,800	168,800 *	130,800 *	150
155	67.2	302.1	248,500	162,400 *	125,100 *	155
160	66.2	299.9	236,200	156,400 *	119,800 *	160
165	65.2	297.6	224,800	150,700 *	114,700 *	165
170	64.2	295.2	214,300	145,400 *	110,000 *	170
175	63.2	292.7	204,400	140,400 *	105,500 *	175
180	62.2	290.0	195,200	135,700 *	101,300 *	180
185	61.2	287.3	186,600	131,200 *	97,300 *	185
190	60.2	284.5	178,500	126,900 *	93,600 *	190
195	59.1	281.5	170,900	122,900 *	90,000 *	195
200	58.1	278.4	163,700	119,100 *	86,600 *	200
205	57.0	275.2	157,000	115,400 *	83,300 *	205
210	55.9	271.8	150,600	112,000 *	80,200 *	210
215	54.8	268.3	144,600	108,700 *	77,300 *	215
220	53.7	264.7	138,800	105,500 *	74,500 *	220
225	52.6	260.9	133,400	102,500 *	71,800 *	225
230	51.4	256.9	128,200	99,600 *	69,200 *	230
235	50.3	252.8	123,300	96,800 *	66,800 *	235
240	49.1	248.5	118,600	94,200 *	64,400 *	240
245	47.9	244.0	114,200	91,700 *	62,200 *	245
250	46.7	239.4	109,900	89,200 *	60,000 *	250
260	44.1	229.4	101,900	84,600 *	55,900 *	260
270	41.5	218.4	94,600	80,400 *	52,100 *	270
280	38.7	206.4	87,900	76,400 *		280
290	35.7	193.1	81,700	72,700 *		290
300	32.5	178.1	75,900	69,300 *		300
310	28.9	161.0	70,500	66,100 *		310
320	24.9	141.0	65,500	63,100 *		320
330	20.2	116.6	60,900	60,100		330

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
 442,300 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	508,800 *	
85	80.9	343.3	501,700 *	
90	80.0	342.4	494,500 *	
95	79.1	341.5	487,100 *	
100	78.3	340.4	479,700 *	266,600 *
105	77.4	339.3	456,900	252,500 *
110	76.6	338.1	424,000	239,600 *
115	75.7	336.9	395,000	227,800 *
120	74.8	335.5	369,100	217,000 *
125	73.9	334.1	346,000	207,000 *
130	73.1	332.6	325,100	197,900 *
135	72.2	331.0	306,100	189,400 *
140	71.3	329.3	288,900	181,500 *
145	70.4	327.5	273,200	174,200 *
150	69.5	325.7	258,700	167,300 *
155	68.6	323.7	245,400	160,900 *
160	67.7	321.7	233,100	154,900 *
165	66.8	319.5	221,700	149,200 *
170	65.8	317.3	211,100	143,900 *
175	64.9	315.0	201,300	138,900 *
180	64.0	312.5	192,100	134,200 *
185	63.0	310.0	183,500	129,700 *
190	62.1	307.4	175,400	125,500 *
195	61.1	304.6	167,800	121,400 *
200	60.1	301.8	160,600	117,600 *
205	59.2	298.8	153,800	114,000 *
210	58.2	295.7	147,500	110,500 *
215	57.2	292.5	141,400	107,200 *
220	56.2	289.2	135,700	104,100 *
225	55.1	285.7	130,300	101,100 *
230	54.1	282.1	125,100	98,200 *
235	53.0	278.4	120,200	95,400 *
240	52.0	274.5	115,500	92,800 *
245	50.9	270.5	111,100	90,200 *
250	49.8	266.3	106,800	87,800 *
260	47.5	257.4	98,800	83,200 *
270	45.2	247.8	91,500	79,000 *
280	42.8	237.3	84,800	75,000 *
290	40.2	225.8	78,500	71,300 *
300	37.5	213.2	72,800	67,900 *
310	34.6	199.3	67,400	64,700 *
320	31.5	183.8	62,400	61,400
330	28.1	166.0	57,800	56,900
340	24.2	145.3	53,400	52,600

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
 442,300 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
360.0 ft				
90	80.6	362.7	434,300 *	
95	79.8	361.8	428,000 *	
100	78.9	360.9	421,700 *	
105	78.1	359.8	415,200 *	251,200 *
110	77.3	358.7	408,700 *	238,300 *
115	76.5	357.5	392,600	226,500 *
120	75.7	356.2	366,700	215,700 *
125	74.9	354.9	343,500	205,800 *
130	74.0	353.5	322,600	196,600 *
135	73.2	352.0	303,700	188,200 *
140	72.4	350.4	286,500	180,300 *
145	71.5	348.7	270,700	172,900 *
150	70.7	347.0	256,300	166,100 *
155	69.8	345.1	243,000	159,700 *
160	69.0	343.2	230,700	153,700 *
165	68.1	341.2	219,300	148,100 *
170	67.3	339.2	208,700	142,700 *
175	66.4	337.0	198,800	137,700 *
180	65.5	334.7	189,600	133,000 *
185	64.6	332.4	181,000	128,500 *
190	63.8	329.9	172,900	124,300 *
195	62.9	327.4	165,300	120,300 *
200	62.0	324.7	158,200	116,500 *
205	61.1	322.0	151,400	112,800 *
210	60.1	319.1	145,000	109,400 *
215	59.2	316.1	139,000	106,100 *
220	58.3	313.1	133,300	102,900 *
225	57.3	309.9	127,800	99,900 *
230	56.4	306.6	122,700	97,000 *
235	55.4	303.1	117,700	94,300 *
240	54.4	299.6	113,100	91,700 *
245	53.4	295.9	108,600	89,100 *
250	52.4	292.1	104,300	86,700 *
260	50.4	284.0	96,400	82,100 *
270	48.3	275.4	89,100	77,900 *
280	46.1	266.0	82,300	73,900 *
290	43.9	255.9	76,100	70,200 *
300	41.5	244.9	70,300	66,800 *
310	39.0	232.9	65,000	63,600
320	36.4	219.9	60,000	58,800
330	33.6	205.4	55,300	54,200
340	30.6	189.2	51,000	50,000

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
 442,300 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
380.0 ft			
95	80.3	382.1	385,100 *
100	79.5	381.2	379,500 *
105	78.8	380.2	373,700 *
110	78.0	379.2	367,800 *
115	77.2	378.1	361,800 *
120	76.4	376.9	355,800 *
125	75.7	375.6	340,400
130	74.9	374.2	319,500
135	74.1	372.8	300,600
140	73.3	371.3	283,400
145	72.5	369.8	267,600
150	71.7	368.1	253,200
155	70.9	366.4	239,900
160	70.1	364.6	227,600
165	69.3	362.8	216,200
170	68.5	360.8	205,600
175	67.7	358.8	195,700
180	66.9	356.6	186,500
185	66.1	354.4	177,900
190	65.2	352.1	169,800
195	64.4	349.7	162,200
200	63.6	347.3	155,000
205	62.7	344.7	148,300
210	61.9	342.0	141,900
215	61.0	339.3	135,900
220	60.1	336.4	130,100
225	59.3	333.5	124,700
230	58.4	330.4	119,500
235	57.5	327.2	114,600
240	56.6	324.0	110,000
245	55.7	320.6	105,500
250	54.7	317.0	101,200
260	52.9	309.6	93,300
270	50.9	301.7	85,900
280	49.0	293.2	79,200
290	46.9	284.1	73,000
300	44.8	274.3	67,200
310	42.6	263.7	61,900
320	40.3	252.3	56,900
330	37.9	239.9	52,200

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
 442,300 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
400.0 ft			
95	80.8	402.4	333,800 *
100	80.1	401.6	329,100 *
105	79.3	400.6	324,300 *
110	78.6	399.6	319,300 *
115	77.9	398.6	314,000 *
120	77.1	397.4	308,400 *
125	76.4	396.2	302,700 *
130	75.7	395.0	296,900 *
135	74.9	393.6	291,200 *
140	74.2	392.2	280,900
145	73.4	390.7	265,100
150	72.7	389.2	250,700
155	71.9	387.5	237,400
160	71.2	385.9	225,100
165	70.4	384.1	213,700
170	69.6	382.2	203,100
175	68.9	380.3	193,200
180	68.1	378.3	184,000
185	67.3	376.2	175,400
190	66.6	374.1	167,300
195	65.8	371.9	159,700
200	65.0	369.5	152,600
205	64.2	367.1	145,800
210	63.4	364.6	139,400
215	62.6	362.0	133,400
220	61.8	359.4	127,700
225	60.9	356.6	122,200
230	60.1	353.8	117,100
235	59.3	350.8	112,100
240	58.5	347.7	107,500
245	57.6	344.6	103,000
250	56.7	341.3	98,700
260	55.0	334.5	90,800
270	53.2	327.2	83,400
280	51.4	319.4	76,700
290	49.6	311.0	70,500
300	47.6	302.1	64,700
310	45.7	292.6	59,400
320	43.6	282.4	54,400