

Liftcrane Boom Capacities

888 RINGER

Boom No. 67B, 120 Ft. Mast No. 49A
45 Ft. RINGER Attachment on Screw Jack Pedestals
867,100 Lb. Auxiliary Counterweight
Barge Mount - 1/2 Degree Thru 2 Degree Machine List
360 Degree Rating

LIFTING CAPACITIES: Lifting capacities are for a machine when operating on 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 capacity for liftcrane service with single part whip line is 32,300 Lbs. or 64,600 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part line is 20,000 Lbs. or 40,000 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, slings, hoist lines, etc., beneath boom 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 with roller path properly supported and machine list not to

exceed degrees noted. Refer to boom rigging **No.177811** and Wire Rope Specification chart **No. 7925-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. Refer to operators manual for operating guidelines.

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 45 Ft. RINGER attachment, 28 Ft. 2 in. extendible crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 120 Ft. No. 49A mast, 16 part boom hoist reeving, boom support straps, and 867,100 Lb. auxiliary counterweight.

Maximum Boom Length Lifted Unassisted	
List	Boom Length
1/2 Degree	350 Ft.
1 Degree	300 Ft.
2 Degrees	250 Ft.
Load block, hook and weight ball on barge deck at start. Jib is not to be used on machine while operating on a barge.	

Deduct
Deduct 10,000 Lbs. from capacities when jib backstay straps are stowed on boom.

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

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
125 Ft. Boom					
45	80.2	131.1	1,120,200 *	1,037,900 *	903,400 *
50	77.9	130.1	1,044,400 *	972,600 *	853,500 *
55	75.5	128.8	955,200	914,800 *	808,900 *
60	73.1	127.3	833,900	807,900	759,700
65	70.7	125.5	739,000	718,200	679,400
70	68.2	123.5	662,700	645,800	613,900
75	65.7	121.3	600,100	586,000	559,400
80	63.2	118.7	547,700	535,900	513,400
85	60.5	115.9	503,300	493,200	474,000
90	57.8	112.8	465,100	456,500	439,900
95	55.0	109.3	432,000	424,500	410,100
100	52.2	105.5	402,900	396,400	383,800
105	49.1	101.2	377,200	371,500	360,500
110	46.0	96.4	354,400	349,400	339,700
115	42.6	91.1	333,900	329,500	321,000
120	39.0	85.0	315,400	311,600	304,100
125	35.1	78.1	298,700	295,300	288,800
130	30.7	70.0	283,500	280,600	274,900
135	25.7	60.2	269,600	267,100	262,200
140	19.4	47.4	256,800	254,800	250,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
150 Ft. Boom					
45	81.9	156.5	1,093,500 *	999,400 *	
50	79.9	155.6	1,020,100 *	937,500 *	805,000 *
55	78.0	154.6	946,200	882,700 *	764,100 *
60	76.0	153.3	826,300	796,000	727,100 *
65	74.0	151.9	732,300	708,100	663,400
70	72.0	150.3	656,800	636,900	600,000
75	70.0	148.5	594,600	578,100	547,200
80	67.9	146.4	542,700	528,700	502,400
85	65.9	144.2	498,500	486,600	464,000
90	63.7	141.7	460,600	450,300	430,700
95	61.6	139.0	427,700	418,700	401,500
100	59.3	136.1	398,800	390,900	375,800
105	57.1	132.9	373,200	366,300	352,900
110	54.7	129.3	350,500	344,300	332,400
115	52.3	125.5	330,100	324,600	314,000
120	49.8	121.3	311,700	306,800	297,300
125	47.2	116.7	295,000	290,700	282,100
130	44.5	111.7	279,900	275,900	268,300
135	41.7	106.2	266,000	262,500	255,600
140	38.7	100.0	253,300	250,100	244,000
145	35.4	93.2	241,600	238,800	233,200
150	31.9	85.3	230,800	228,300	223,300
155	27.9	76.3	220,700	218,500	214,200
160	23.3	65.3	211,400	209,500	205,700
165	17.6	51.2	202,700	201,100	197,900

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45 Ft. RINGER Attachment on Screw Jack Pedestals
867,100 Lb. Auxiliary Counterweight
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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
175 Ft. Boom					
50	81.4	181.1	977,600 *	878,100 *	
55	79.7	180.1	934,000 *	852,200 *	722,900 *
60	78.1	179.1	819,800	785,400	688,700 *
65	76.4	177.9	726,600	699,000	648,700
70	74.7	176.5	651,500	628,900	587,300
75	73.0	175.0	589,800	570,900	535,900
80	71.2	173.3	538,100	522,100	492,200
85	69.5	171.4	494,200	480,400	454,700
90	67.7	169.3	456,400	444,500	422,100
95	65.9	167.1	423,600	413,200	393,500
100	64.1	164.7	394,800	385,600	368,200
105	62.3	162.1	369,300	361,200	345,700
110	60.4	159.2	346,600	339,400	325,600
115	58.5	156.2	326,300	319,800	307,400
120	56.5	152.9	308,000	302,100	290,900
125	54.5	149.3	291,300	286,100	275,900
130	52.4	145.5	276,200	271,400	262,200
135	50.3	141.4	262,400	258,100	249,700
140	48.1	136.9	249,700	245,700	238,100
145	45.9	132.1	238,000	234,400	227,400
150	43.5	126.9	227,100	223,900	217,600
155	41.0	121.2	217,100	214,200	208,400
160	38.4	115.0	207,800	205,100	199,800
165	35.6	108.2	199,100	196,700	191,900
170	32.6	100.6	191,000	188,800	184,400
175	29.4	91.9	183,400	181,400	177,500
180	25.7	82.0	176,200	174,400	170,900
185	21.5	70.1	169,500	167,900	164,900
190	16.2	54.7	163,200	161,800	159,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
200 Ft. Boom					
50	82.5	206.3	855,600 *		
55	81.0	205.6	849,900 *	752,400 *	
60	79.6	204.6	811,700	743,900 *	607,900 *
65	78.1	203.6	719,500	688,700	602,000 *
70	76.6	202.4	645,200	619,800	573,900
75	75.2	201.1	583,900	562,800	524,000
80	73.7	199.6	532,700	514,700	481,500
85	72.2	198.0	489,100	473,600	445,000
90	70.6	196.2	451,600	438,200	413,100
95	69.1	194.3	419,000	407,200	385,200
100	67.6	192.2	390,300	380,000	360,400
105	66.0	190.0	365,000	355,800	338,400
110	64.4	187.6	342,400	334,200	318,600
115	62.8	185.1	322,200	314,800	300,700
120	61.2	182.3	304,000	297,300	284,500
125	59.5	179.4	287,400	281,400	269,800
130	57.8	176.2	272,400	266,900	256,300
135	56.1	172.9	258,600	253,600	243,900
140	54.3	169.3	245,900	241,400	232,500
145	52.5	165.5	234,300	230,100	222,000
150	50.7	161.4	223,500	219,700	212,200
155	48.8	157.1	213,500	210,000	203,100
160	46.8	152.4	204,200	201,000	194,700
165	44.8	147.4	195,600	192,600	186,800
170	42.7	142.1	187,500	184,700	179,400
175	40.5	136.3	179,900	177,400	172,400
180	38.2	130.0	172,800	170,500	165,900
185	35.8	123.2	166,100	164,000	159,800
190	33.2	115.7	159,800	157,800	154,000
195	30.4	107.4	153,900	152,100	148,500
200	27.4	98.1	148,200	146,600	143,400
205	24.0	87.3	142,900	141,400	138,500
210	20.0	74.4	137,800	136,500	134,000
215	15.1	57.9	133,000	131,900	129,700

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
225 Ft. Boom					
55	82.0	230.9	734,800 *		
60	80.7	230.1	726,500 *	640,300 *	518,900 *
65	79.5	229.1	713,500	633,600 *	514,000 *
70	78.2	228.1	639,700	611,800	509,200 *
75	76.8	226.9	579,000	555,600	504,400 *
80	75.5	225.6	528,000	508,100	471,800
85	74.2	224.2	484,700	467,600	436,100
90	72.9	222.6	447,400	432,500	405,000
95	71.5	221.0	414,900	401,900	377,600
100	70.2	219.2	386,400	374,900	353,300
105	68.8	217.2	361,200	350,900	331,700
110	67.4	215.2	338,700	329,500	312,200
115	66.0	212.9	318,600	310,300	294,700
120	64.6	210.6	300,400	292,900	278,700
125	63.2	208.1	283,900	277,100	264,200
130	61.8	205.4	268,900	262,700	250,900
135	60.3	202.5	255,200	249,500	238,700
140	58.8	199.5	242,500	237,400	227,400
145	57.3	196.3	230,900	226,100	217,000
150	55.8	192.9	220,200	215,800	207,300
155	54.2	189.3	210,200	206,200	198,300
160	52.6	185.5	200,900	197,200	189,900
165	51.0	181.5	192,300	188,800	182,100
170	49.3	177.2	184,200	181,000	174,800
175	47.6	172.7	176,700	173,700	167,900
180	45.8	167.8	169,600	166,800	161,400
185	44.0	162.7	162,900	160,300	155,300
190	42.1	157.2	156,600	154,200	149,500
195	40.1	151.3	150,700	148,400	144,100
200	38.1	145.0	145,000	143,000	138,900
205	35.9	138.2	139,700	137,800	134,000
210	33.6	130.8	134,700	132,900	129,400
215	31.2	122.7	129,900	128,200	125,000
220	28.6	113.8	125,300	123,800	120,800
225	25.8	103.8	121,000	119,600	116,900
230	22.6	92.3	116,800	115,600	113,100
235	18.8	78.6	112,900	111,700	109,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds	Boom Capacity 2 Degree List Pounds
250 Ft. Boom					
60	81.7	255.4	632,200 *	554,900 *	
65	80.5	254.6	625,700 *	549,600 *	442,600 *
70	79.4	253.6	619,100 *	544,200 *	438,700 *
75	78.2	252.6	573,600	538,900 *	434,800 *
80	77.0	251.4	523,000	501,200	430,900 *
85	75.8	250.1	479,900	461,200	427,100 *
90	74.6	248.8	442,800	426,500	396,600
95	73.4	247.3	410,500	396,200	369,800
100	72.2	245.7	382,200	369,500	346,000
105	71.0	244.0	357,100	345,800	324,700
110	69.8	242.1	334,700	324,600	305,600
115	68.6	240.2	314,600	305,500	288,400
120	67.3	238.1	296,500	288,200	272,700
125	66.1	235.9	280,000	272,500	258,300
130	64.8	233.5	265,100	258,200	245,200
135	63.5	231.0	251,400	245,100	233,200
140	62.2	228.4	238,800	233,000	222,100
145	60.9	225.6	227,200	221,900	211,800
150	59.6	222.7	216,500	211,600	202,200
155	58.3	219.6	206,600	202,000	193,300
160	56.9	216.4	197,300	193,100	185,000
165	55.5	212.9	188,700	184,800	177,200
170	54.1	209.3	180,700	177,000	170,000
175	52.6	205.5	173,100	169,700	163,100
180	51.2	201.5	166,000	162,900	156,700
185	49.7	197.3	159,400	156,400	150,700
190	48.1	192.8	153,100	150,300	144,900
195	46.6	188.1	147,200	144,600	139,500
200	45.0	183.2	141,500	139,100	134,400
205	43.3	177.9	136,200	134,000	129,500
210	41.6	172.3	131,200	129,100	124,900
215	39.8	166.4	126,400	124,400	120,500
220	37.9	160.0	121,900	120,000	116,400
225	36.0	153.2	117,500	115,800	112,400
230	34.0	145.9	113,400	111,800	108,600
235	31.8	138.0	109,400	107,900	105,000
240	29.5	129.4	105,700	104,300	101,500
245	27.1	119.9	102,100	100,800	98,200
250	24.4	109.2	98,600	97,400	95,000
255	21.4	97.0	95,300	94,200	92,000
260	17.8	82.4	92,100	91,100	89,100

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds
275 Ft. Boom				
60	82.4	280.7	557,500 *	
65	81.4	279.9	552,400 *	483,200 *
70	80.3	279.1	547,100 *	478,900 *
75	79.3	278.1	541,800 *	474,500 *
80	78.2	277.1	518,400	470,100 *
85	77.1	275.9	475,600	455,300
90	76.1	274.7	438,700	421,000
95	75.0	273.3	406,600	391,100
100	73.9	271.9	378,400	364,600
105	72.8	270.4	353,400	341,100
110	71.7	268.7	331,100	320,100
115	70.6	266.9	311,100	301,200
120	69.5	265.1	293,100	284,100
125	68.4	263.1	276,700	268,500
130	67.3	261.0	261,800	254,300
135	66.1	258.8	248,200	241,300
140	65.0	256.4	235,600	229,300
145	63.8	254.0	224,100	218,300
150	62.6	251.4	213,400	208,000
155	61.4	248.7	203,500	198,500
160	60.2	245.8	194,300	189,600
165	59.0	242.8	185,700	181,400
170	57.8	239.7	177,700	173,600
175	56.6	236.4	170,100	166,400
180	55.3	232.9	163,100	159,500
185	54.0	229.3	156,400	153,100
190	52.7	225.5	150,200	147,100
195	51.4	221.5	144,200	141,300
200	50.0	217.4	138,700	135,900
205	48.6	213.0	133,400	130,800
210	47.2	208.4	128,300	125,900
215	45.8	203.5	123,600	121,300
220	44.3	198.4	119,000	116,900
225	42.7	193.1	114,700	112,700
230	41.2	187.4	110,600	108,700
235	39.5	181.4	106,600	104,900
240	37.8	175.0	102,900	101,200
245	36.1	168.2	99,300	97,700
250	34.3	161.0	95,800	94,300
255	32.3	153.2	92,500	91,100
260	30.3	144.8	89,300	88,000
265	28.1	135.7	86,300	85,100
270	25.8	125.6	83,400	82,200
275	23.2	114.3	80,500	79,500
280	20.3	101.4	77,800	76,800
285	17.0	86.1	75,200	74,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds	Boom Capacity 1 Degree List Pounds
300 Ft. Boom				
65	82.1	305.2	479,300 *	
70	81.1	304.4	479,300 *	
75	80.2	303.6	475,300 *	
80	79.2	302.6	471,100 *	
85	78.2	301.6	466,800 *	
90	77.3	300.4	434,000	
95	76.3	299.2	402,100	385,400
100	75.3	297.9	374,000	359,200
105	74.3	296.5	349,100	335,900
110	73.3	295.0	327,000	315,100
115	72.3	293.4	307,000	296,300
120	71.3	291.7	289,100	279,300
125	70.3	289.9	272,800	263,900
130	69.2	288.0	257,900	249,800
135	68.2	286.0	244,300	236,900
140	67.2	283.9	231,800	224,900
145	66.1	281.7	220,300	214,000
150	65.1	279.4	209,600	203,800
155	64.0	276.9	199,800	194,300
160	63.0	274.4	190,600	185,500
165	61.9	271.7	182,000	177,300
170	60.8	268.9	174,000	169,600
175	59.7	266.0	166,500	162,400
180	58.5	263.0	159,400	155,600
185	57.4	259.8	152,800	149,200
190	56.3	256.4	146,600	143,100
195	55.1	252.9	140,700	137,400
200	53.9	249.3	135,100	132,100
205	52.7	245.5	129,800	126,900
210	51.5	241.6	124,800	122,100
215	50.3	237.4	120,000	117,500
220	49.0	233.1	115,500	113,100
225	47.7	228.6	111,200	108,900
230	46.4	223.8	107,100	104,900
235	45.1	218.9	103,100	101,100
240	43.7	213.7	99,400	97,500
245	42.3	208.2	95,800	94,000
250	40.8	202.5	92,400	90,600
255	39.3	196.4	89,100	87,400
260	37.8	190.0	85,900	84,300
265	36.2	183.2	82,800	81,400
270	34.5	176.1	79,900	78,500
275	32.7	168.4	77,100	75,800
280	30.9	160.2	74,400	73,200
285	29.0	151.3	71,800	70,600
290	26.9	141.6	69,300	68,200
295	24.6	131.1	66,800	65,800
300	22.2	119.2	64,500	63,500
305	19.4	105.7	62,200	61,300
310	16.2	89.7	60,000 *	59,200

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds
325 Ft. Boom			
70	81.8	329.7	396,400 *
75	80.9	328.9	396,400 *
80	80.0	328.1	396,400 *
85	79.1	327.1	396,400 *
90	78.2	326.1	396,400 *
95	77.3	324.9	396,400 *
100	76.4	323.7	370,000
105	75.5	322.4	345,300
110	74.6	321.1	323,200
115	73.7	319.6	303,400
120	72.8	318.0	285,500
125	71.8	316.4	269,200
130	70.9	314.7	254,400
135	70.0	312.9	240,900
140	69.0	310.9	228,400
145	68.1	308.9	216,900
150	67.1	306.8	206,300
155	66.2	304.6	196,500
160	65.2	302.3	187,300
165	64.2	299.9	178,800
170	63.2	297.4	170,800
175	62.2	294.7	163,300
180	61.2	292.0	156,300
185	60.2	289.1	149,700
190	59.2	286.1	143,400
195	58.1	283.0	137,500
200	57.1	279.8	132,000
205	56.0	276.5	126,700
210	55.0	273.0	121,700
215	53.9	269.3	117,000
220	52.8	265.5	112,500
225	51.6	261.6	108,100
230	50.5	257.5	104,000
235	49.3	253.2	100,100
240	48.2	248.7	96,400
245	47.0	244.1	92,800
250	45.7	239.2	89,400
255	44.5	234.2	86,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds
325 Ft. Boom			
260	43.2	228.9	82,900
265	41.9	223.3	79,900
270	40.5	217.5	77,000
275	39.1	211.4	74,200
280	37.7	205.0	71,500
285	36.2	198.3	68,900
290	34.7	191.1	66,400
295	33.1	183.5	64,000
300	31.4	175.4	61,600
305	29.6	166.8	59,000 *
310	27.8	157.5	56,400 *
315	25.8	147.4	53,900 *
320	23.6	136.3	51,400 *
325	21.3	123.9	49,000 *
330	18.6	109.8	46,700 *
335	15.6	93.0	44,400 *
350 Ft. Boom			
70	82.4	355.0	326,800 *
75	81.6	354.3	326,800 *
80	80.8	353.5	326,800 *
85	79.9	352.6	326,800 *
90	79.1	351.6	326,800 *
95	78.3	350.5	326,800 *
100	77.4	349.4	326,800 *
105	76.6	348.2	326,800 *
110	75.7	347.0	319,000
115	74.9	345.6	299,200
120	74.0	344.2	281,400
125	73.2	342.7	265,200
130	72.3	341.1	250,500
135	71.5	339.4	236,900
140	70.6	337.6	224,500
145	69.7	335.8	213,100
150	68.8	333.9	202,500
155	68.0	331.8	192,700
160	67.1	329.7	183,500
165	66.2	327.5	175,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity 1/2 Degree List Pounds
350 Ft. Boom			
170	65.3	325.2	167,100
175	64.4	322.8	159,600
180	63.5	320.3	152,600
185	62.5	317.7	146,000
190	61.6	315.0	139,800
195	60.7	312.2	133,900
200	59.7	309.3	128,300
205	58.8	306.3	123,100
210	57.8	303.1	118,100
215	56.8	299.9	113,400
220	55.8	296.5	108,900
225	54.8	293.0	104,600
230	53.8	289.3	100,500
235	52.8	285.5	96,600
240	51.7	281.6	92,800
245	50.7	277.5	89,300
250	49.6	273.3	85,800
255	48.5	268.9	82,500
260	47.4	264.3	79,400
265	46.3	259.5	76,400
270	45.1	254.6	73,500
275	44.0	249.4	70,700
280	42.8	244.1	68,000
285	41.5	238.4	65,400
290	40.3	232.6	62,900
295	39.0	226.4	60,100 *
300	37.6	220.0	57,300 *
305	36.3	213.3	54,600 *
310	34.8	206.1	52,000 *
315	33.4	198.6	49,500 *
320	31.8	190.7	47,000 *
325	30.2	182.2	44,700 *
330	28.5	173.2	42,400 *
335	26.7	163.4	40,100 *
340	24.8	152.9	38,000 *
345	22.7	141.3	35,800 *
350	20.5	128.4	33,800 *
355	17.9	113.7	31,800 *