

Liftcrane Boom Capacities

888 RINGER

Boom No. 67B, 120 Ft. Mast No. 49A
45 Ft. RINGER Attachment on Screw Jack Pedestals
393 310 kg 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 14 650 kg or 29 300 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part line is 9 070 kg or 18 140 kg 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 13,7m RINGER attachment, 8 585 mm extendible crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 36,6m No. 49A mast, 16 part boom hoist reeving, boom support straps, and 393 310 kg auxiliary counterweight.

Maximum Boom Length Lifted Unassisted	
List	Boom Length
1/2 Degree	106,7m
1 Degree	91,4m
2 Degrees	76,2m
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 4 540 kg 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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38,1m (125 Ft.) Boom					
13,7	80,2	40,0	508 100 *	470 700 *	409 700 *
14,0	79,8	39,9	501 700 *	465 200 *	405 500 *
16,0	76,7	39,5	454 300	427 600 *	376 700 *
18,0	73,6	38,9	389 700	377 300	348 900
20,0	70,4	38,2	330 400	321 200	304 100
22,0	67,2	37,4	287 400	280 400	267 000
24,0	63,8	36,4	253 900	248 300	237 700
26,0	60,4	35,3	227 100	222 600	214 000
28,0	56,8	34,0	205 000	201 400	194 200
30,0	53,1	32,5	186 700	183 600	177 600
32,0	49,1	30,9	171 100	168 500	163 500
34,0	44,9	28,9	157 700	155 500	151 300
36,0	40,4	26,6	146 100	144 300	140 700
38,0	35,4	24,0	135 900	134 400	131 400
40,0	29,6	20,6	126 900	125 700	123 200
42,0	22,4	16,3	118 900	117 900	115 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms	Boom Capacity 2 Degree List Kilograms
45,7m (150 Ft.) Boom					
13,7	81,9	47,7	496 000 *	453 300 *	
14,0	81,5	47,7	489 700 *	448 000 *	
16,0	79,0	47,3	446 000	412 400 *	355 800 *
18,0	76,4	46,8	386 600	369 600	332 800 *
20,0	73,8	46,2	327 400	316 700	297 300
22,0	71,2	45,6	284 800	276 500	261 100
24,0	68,5	44,8	251 600	245 000	232 600
26,0	65,7	43,9	224 900	219 600	209 400
28,0	62,9	42,9	203 000	198 600	190 200
30,0	60,0	41,8	184 800	181 000	173 900
32,0	57,1	40,5	169 300	166 100	160 000
34,0	54,0	39,1	156 000	153 200	148 000
36,0	50,8	37,5	144 400	142 100	137 600
38,0	47,4	35,7	134 200	132 300	128 300
40,0	43,8	33,6	125 300	123 500	120 200
42,0	40,0	31,3	117 300	115 800	112 900
44,0	35,8	28,7	110 200	108 900	106 300
46,0	31,2	25,5	103 800	102 700	100 500
48,0	25,7	21,7	97 900	97 000	95 200
50,0	18,8	16,5	92 600	91 900	90 400

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53,3m (175 Ft.) Boom					
15,2	81,4	55,2	443 400 *	398 200 *	
16,0	80,6	55,0	433 500 *	392 400 *	
18,0	78,4	54,6	384 000	363 300	315 300 *
20,0	76,2	54,2	324 900	312 700	291 300
22,0	73,9	53,6	282 500	273 100	255 600
24,0	71,7	52,9	249 500	242 000	227 900
26,0	69,4	52,2	223 000	216 800	205 200
28,0	67,1	51,4	201 200	196 000	186 400
30,0	64,7	50,4	182 900	178 600	170 400
32,0	62,3	49,4	167 500	163 800	156 800
34,0	59,8	48,2	154 200	151 000	145 000
36,0	57,3	47,0	142 700	139 900	134 600
38,0	54,6	45,6	132 600	130 200	125 500
40,0	51,9	44,0	123 600	121 500	117 400
42,0	49,1	42,3	115 700	113 800	110 200
44,0	46,1	40,5	108 600	106 900	103 700
46,0	43,0	38,4	102 100	100 700	97 900
48,0	39,7	36,0	96 300	95 000	92 500
50,0	36,2	33,4	91 000	89 900	87 700
52,0	32,3	30,4	86 200	85 200	83 200
54,0	27,9	26,8	81 700	80 800	79 100
56,0	22,7	22,4	77 600	76 800	75 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms	Boom Capacity 2 Degree List Kilograms
61,0m (200 Ft.) Boom					
15,2	82,5	62,9	388 000 *		
16,0	81,8	62,8	386 800 *		
18,0	79,9	62,4	372 500	338 100 *	
20,0	77,9	62,0	321 700	308 800	272 000
22,0	76,0	61,5	279 800	269 200	251 600
24,0	74,0	61,0	247 000	238 500	222 900
26,0	72,1	60,3	220 700	213 700	200 900
28,0	70,1	59,6	199 000	193 200	182 400
30,0	68,1	58,8	180 900	176 000	166 800
32,0	66,0	57,9	165 500	161 400	153 500
34,0	63,9	57,0	152 300	148 700	141 900
36,0	61,8	55,9	140 900	137 700	131 700
38,0	59,6	54,7	130 800	128 000	122 700
40,0	57,4	53,5	121 900	119 500	114 800
42,0	55,1	52,1	114 000	111 800	107 600
44,0	52,8	50,6	106 900	105 000	101 200
46,0	50,3	49,0	100 500	98 800	95 400
48,0	47,8	47,2	94 700	93 100	90 100
50,0	45,2	45,2	89 400	88 000	85 400
52,0	42,4	43,1	84 600	83 300	80 900
54,0	39,5	40,7	80 100	79 000	76 800
56,0	36,4	38,1	76 000	75 100	73 100
58,0	33,1	35,1	72 300	71 400	69 700
60,0	29,3	31,7	68 800	68 000	66 400
62,0	25,1	27,7	65 500	64 800	63 500
64,0	20,1	22,7	62 500	61 900	60 700

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68,6m (225 Ft.) Boom					
16,8	82,0	70,4	333 200 *		
18,0	81,0	70,2	330 200 *		
20,0	79,3	69,8	320 900	286 500	232 800 *
22,0	77,6	69,4	277 400	268 300	230 000 *
24,0	75,9	68,9	244 900	235 500	218 900
26,0	74,1	68,3	218 700	211 000	196 900
28,0	72,4	67,7	197 100	190 700	178 800
30,0	70,6	67,0	179 100	173 700	163 500
32,0	68,8	66,2	163 800	159 100	150 400
34,0	67,0	65,4	150 600	146 600	139 000
36,0	65,2	64,5	139 200	135 700	129 000
38,0	63,3	63,5	129 200	126 100	120 200
40,0	61,4	62,4	120 300	117 600	112 300
42,0	59,5	61,2	112 400	110 000	105 300
44,0	57,5	60,0	105 300	103 100	99 000
46,0	55,5	58,6	99 000	97 000	93 200
48,0	53,4	57,1	93 200	91 400	88 000
50,0	51,3	55,5	87 900	86 300	83 200
52,0	49,1	53,8	83 100	81 600	78 900
54,0	46,8	52,0	78 700	77 400	74 800
56,0	44,4	50,0	74 600	73 400	71 100
58,0	42,0	47,8	70 800	69 700	67 600
60,0	39,4	45,4	67 300	66 300	64 400
62,0	36,6	42,8	64 100	63 200	61 400
64,0	33,7	39,9	61 100	60 200	58 700
66,0	30,4	36,6	58 200	57 500	56 100
68,0	26,9	32,8	55 600	54 900	53 600
70,0	22,8	28,4	53 100	52 500	51 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms	Boom Capacity 2 Degree List Kilograms
76,2m (250 Ft.) Boom					
18,3	81,7	77,8	286 700 *	251 600 *	
20,0	80,4	77,6	283 400 *	248 900 *	200 500 *
22,0	78,8	77,2	273 900	245 700 *	198 200 *
24,0	77,3	76,7	243 200	233 000	195 800 *
26,0	75,8	76,2	216 500	208 100	193 200
28,0	74,2	75,7	195 100	188 100	175 100
30,0	72,6	75,0	177 200	171 200	160 100
32,0	71,0	74,4	162 000	156 800	147 300
34,0	69,4	73,6	148 800	144 400	136 100
36,0	67,8	72,8	137 400	133 500	126 300
38,0	66,2	71,9	127 400	124 000	117 500
40,0	64,5	71,0	118 600	115 600	109 800
42,0	62,8	70,0	110 700	108 000	102 900
44,0	61,1	68,9	103 700	101 200	96 600
46,0	59,4	67,7	97 300	95 100	90 900
48,0	57,6	66,4	91 500	89 500	85 700
50,0	55,8	65,1	86 300	84 500	81 000
52,0	53,9	63,7	81 500	79 800	76 700
54,0	52,0	62,1	77 000	75 600	72 600
56,0	50,1	60,5	73 000	71 600	69 000
58,0	48,1	58,7	69 200	68 000	65 500
60,0	46,0	56,8	65 800	64 600	62 400
62,0	43,8	54,7	62 500	61 400	59 400
64,0	41,6	52,5	59 500	58 500	56 600
66,0	39,2	50,1	56 600	55 700	54 000
68,0	36,8	47,5	54 000	53 200	51 600
70,0	34,1	44,6	51 500	50 800	49 300
72,0	31,3	41,4	49 200	48 500	47 200
74,0	28,2	37,8	47 000	46 400	45 100
76,0	24,8	33,7	44 900	44 300	43 200
78,0	20,8	28,8	42 900	42 400	41 400

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83,8m (275 Ft.) Boom				
18,3	82,4	85,5	252 800 *	
20,0	81,3	85,3	250 200 *	218 900 *
22,0	79,9	84,9	247 100 *	216 300 *
24,0	78,5	84,5	238 500	213 700 *
26,0	77,1	84,1	214 600	205 800
28,0	75,7	83,6	193 300	185 600
30,0	74,2	83,0	175 400	168 900
32,0	72,8	82,4	160 300	154 700
34,0	71,4	81,7	147 200	142 400
36,0	69,9	81,0	135 900	131 700
38,0	68,5	80,2	125 900	122 200
40,0	67,0	79,4	117 100	113 800
42,0	65,5	78,5	109 300	106 300
44,0	64,0	77,5	102 200	99 600
46,0	62,4	76,5	95 900	93 500
48,0	60,8	75,4	90 100	88 000
50,0	59,3	74,2	84 900	82 900
52,0	57,6	72,9	80 100	78 300
54,0	56,0	71,6	75 700	74 100
56,0	54,3	70,2	71 700	70 100
58,0	52,6	68,7	67 900	66 500
60,0	50,9	67,1	64 400	63 100
62,0	49,1	65,3	61 200	60 000
64,0	47,2	63,5	58 200	57 100
66,0	45,3	61,6	55 400	54 300
68,0	43,3	59,5	52 700	51 800
70,0	41,3	57,2	50 200	49 400
72,0	39,1	54,8	47 900	47 100
74,0	36,9	52,2	45 700	45 000
76,0	34,5	49,4	43 600	42 900
78,0	32,0	46,2	41 600	41 000
80,0	29,2	42,8	39 800	39 200
82,0	26,2	38,9	38 000	37 500
84,0	22,9	34,4	36 300	35 900
86,0	19,0	29,0	34 700	34 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms	Boom Capacity 1 Degree List Kilograms
91,4m (300 Ft.) Boom				
19,8	82,1	93,0	217 400 *	
20,0	82,0	93,0	217 400 *	
22,0	80,7	92,7	216 600 *	
24,0	79,5	92,3	214 100 *	
26,0	78,2	91,9	211 200	
28,0	76,9	91,4	191 400	
30,0	75,6	90,9	173 400	166 600
32,0	74,3	90,4	158 300	152 300
34,0	73,0	89,8	145 400	140 100
36,0	71,7	89,1	134 000	129 500
38,0	70,3	88,4	124 200	120 100
40,0	69,0	87,6	115 400	111 800
42,0	67,6	86,8	107 500	104 300
44,0	66,3	85,9	100 500	97 600
46,0	64,9	85,0	94 200	91 600
48,0	63,5	84,0	88 500	86 100
50,0	62,1	83,0	83 200	81 100
52,0	60,6	81,9	78 500	76 500
54,0	59,2	80,7	74 100	72 300
56,0	57,7	79,4	70 000	68 300
58,0	56,2	78,1	66 300	64 700
60,0	54,7	76,7	62 800	61 400
62,0	53,1	75,2	59 600	58 300
64,0	51,5	73,6	56 600	55 300
66,0	49,9	72,0	53 700	52 600
68,0	48,2	70,2	51 100	50 100
70,0	46,5	68,3	48 700	47 700
72,0	44,7	66,3	46 300	45 400
74,0	42,9	64,2	44 100	43 300
76,0	41,0	61,9	42 100	41 200
78,0	39,0	59,5	40 100	39 300
80,0	37,0	56,9	38 200	37 500
82,0	34,8	54,1	36 400	35 800
84,0	32,5	51,0	34 800	34 200
86,0	30,1	47,7	33 200	32 600
88,0	27,4	44,0	31 700	31 200
90,0	24,5	39,7	30 200	29 700
92,0	21,2	34,9	28 800	28 400
94,0	17,3	29,0	27 500	27 100

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99,1m (325 Ft.) Boom			
21,3	81,8	100,5	179 800 *
22,0	81,4	100,4	179 800 *
24,0	80,3	100,1	179 800 *
26,0	79,1	99,7	179 800 *
28,0	77,9	99,2	179 800 *
30,0	76,7	98,8	171 600
32,0	75,5	98,3	156 600
34,0	74,3	97,7	143 700
36,0	73,1	97,1	132 400
38,0	71,9	96,5	122 500
40,0	70,7	95,8	113 800
42,0	69,4	95,0	106 000
44,0	68,2	94,2	99 000
46,0	66,9	93,4	92 700
48,0	65,7	92,5	87 000
50,0	64,4	91,5	81 800
52,0	63,1	90,5	77 000
54,0	61,8	89,5	72 600
56,0	60,5	88,3	68 600
58,0	59,1	87,2	64 800
60,0	57,8	85,9	61 400
62,0	56,4	84,6	58 200
64,0	55,0	83,2	55 200
66,0	53,5	81,7	52 400
68,0	52,1	80,2	49 700
70,0	50,6	78,6	47 200
72,0	49,0	76,8	44 900
74,0	47,5	75,0	42 800
76,0	45,9	73,1	40 700
78,0	44,2	71,1	38 700
80,0	42,5	68,9	36 900
82,0	40,8	66,7	35 100
84,0	39,0	64,2	33 500
86,0	37,1	61,6	31 900
88,0	35,1	58,8	30 400
90,0	33,0	55,8	28 900
92,0	30,8	52,5	27 500
94,0	28,4	48,9	25 900 *
96,0	25,8	44,9	24 400 *
98,0	22,9	40,4	22 900 *
100,0	19,7	35,2	21 500 *
102,0	15,8	28,7	20 200 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity 1/2 Degree List Kilograms
106,7m (350 Ft.) Boom			
21,3	82,4	108,2	148 200 *
22,0	82,1	108,1	148 200 *
24,0	81,0	107,8	148 200 *
26,0	79,9	107,4	148 200 *
28,0	78,8	107,1	148 200 *
30,0	77,7	106,6	148 200 *
32,0	76,6	106,1	148 200 *
34,0	75,5	105,6	142 400
36,0	74,4	105,1	130 500
38,0	73,2	104,5	120 700
40,0	72,1	103,8	112 000
42,0	71,0	103,2	104 200
44,0	69,8	102,4	97 300
46,0	68,7	101,7	91 000
48,0	67,5	100,8	85 300
50,0	66,4	99,9	80 000
52,0	65,2	99,0	75 300
54,0	64,0	98,1	70 900
56,0	62,8	97,0	66 900
58,0	61,5	96,0	63 200
60,0	60,3	94,8	59 700
62,0	59,1	93,7	56 500
64,0	57,8	92,4	53 500
66,0	56,5	91,1	50 800
68,0	55,2	89,7	48 100
70,0	53,9	88,3	45 700
72,0	52,5	86,7	43 300
74,0	51,2	85,1	41 100
76,0	49,8	83,5	39 100
78,0	48,3	81,7	37 100
80,0	46,9	79,8	35 300
82,0	45,4	77,9	33 500
84,0	43,8	75,8	31 900
86,0	42,2	73,7	30 300
88,0	40,6	71,4	28 800
90,0	38,9	68,9	27 100 *
92,0	37,1	66,3	25 500 *
94,0	35,3	63,5	23 900 *
96,0	33,4	60,6	22 400 *
98,0	31,3	57,3	20 900 *
100,0	29,2	53,9	19 600 *
102,0	26,9	50,0	18 200 *
104,0	24,3	45,8	16 900 *
106,0	21,5	40,9	15 700 *
108,0	18,3	35,3	14 500 *