

Liftcrane Boom Capacities

Boom No. 67B, 36.6m Mast No. 49A
No Jib Installed
13.7m RINGER Attachment on Screw Jack Pedestals
393 310 kg Auxiliary Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

888 RINGER

LIFTING CAPACITIES: 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 in a level position on a firm uniformly supporting surface with roller path level within a tolerance of 24 mm in 13.7m and properly supported. 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 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 ground level 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
121.9m With Jib Backstay Straps Stowed On Boom
129.5m With Jib Backstay Straps Removed
Load block, hook, and weight ball on ground at start.

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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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
38.1m (125 Ft.) BOOM			
12.2	82.6	40.2	600 000 *
14.0	79.8	39.9	543 200 *
16.0	76.7	39.5	483 000
18.0	73.6	38.9	401 600
20.0	70.4	38.2	340 000
22.0	67.2	37.4	294 800
24.0	63.8	36.4	259 700
26.0	60.4	35.3	231 800
28.0	56.8	34.0	208 900
30.0	53.1	32.5	189 800
32.0	49.1	30.9	173 700
34.0	44.9	28.9	159 900
36.0	40.4	26.6	147 900
38.0	35.4	24.0	137 500
40.0	29.6	20.7	128 200
42.0	22.4	16.3	120 000
45.7m (150 Ft.) BOOM			
13.7	81.9	47.7	544 300 *
14.0	81.5	47.7	537 300 *
16.0	79.0	47.3	480 200
18.0	76.4	46.8	400 500
20.0	73.8	46.2	338 800
22.0	71.2	45.6	293 500
24.0	68.5	44.8	258 500
26.0	65.7	43.9	230 500
28.0	62.9	42.9	207 600
30.0	60.0	41.8	188 600
32.0	57.1	40.5	172 500
34.0	54.0	39.1	158 700
36.0	50.8	37.5	146 700
38.0	47.4	35.7	136 300
40.0	43.8	33.6	127 100
42.0	40.0	31.3	118 800
44.0	35.8	28.7	111 500
46.0	31.2	25.5	104 900
48.0	25.7	21.7	98 900
50.0	18.8	16.5	93 400
53.3m (175 Ft.) BOOM			
15.2	81.4	55.2	488 700 *
16.0	80.6	55.1	468 100
18.0	78.4	54.6	401 100
20.0	76.2	54.2	337 900
22.0	73.9	53.6	292 600
24.0	71.7	52.9	257 500
26.0	69.4	52.2	229 500
28.0	67.1	51.4	206 500
30.0	64.7	50.4	187 400
32.0	62.3	49.4	171 300
34.0	59.8	48.3	157 500
36.0	57.3	47.0	145 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
53.3m (175 Ft.) BOOM			
38.0	54.6	45.6	135 000
40.0	51.9	44.0	125 800
42.0	49.1	42.3	117 600
44.0	46.1	40.5	110 200
46.0	43.0	38.4	103 600
48.0	39.7	36.0	97 600
50.0	36.2	33.4	92 100
52.0	32.3	30.4	87 100
54.0	27.9	26.8	82 600
56.0	22.7	22.4	78 300
61.0m (200 Ft.) BOOM			
15.2	82.5	62.9	432 100 *
16.0	81.8	62.8	431 700 *
18.0	79.9	62.4	398 800
20.0	77.9	62.0	336 400
22.0	76.0	61.5	291 100
24.0	74.0	61.0	256 000
26.0	72.1	60.3	228 000
28.0	70.1	59.6	205 000
30.0	68.1	58.8	186 000
32.0	66.0	57.9	169 900
34.0	63.9	57.0	156 100
36.0	61.8	55.9	144 100
38.0	59.6	54.7	133 600
40.0	57.4	53.5	124 400
42.0	55.1	52.1	116 200
44.0	52.8	50.6	108 800
46.0	50.3	49.0	102 200
48.0	47.8	47.2	96 200
50.0	45.2	45.2	90 800
52.0	42.4	43.1	85 800
54.0	39.5	40.7	81 300
56.0	36.4	38.1	77 100
58.0	33.1	35.1	73 200
60.0	29.3	31.7	69 600
62.0	25.1	27.7	66 200
64.0	20.1	22.7	63 100
68.6m (225 Ft.) BOOM			
16.8	82.0	70.4	374 900 *
18.0	81.0	70.2	371 100 *
20.0	79.3	69.8	336 200
22.0	77.6	69.4	290 000
24.0	75.9	68.9	254 900
26.0	74.1	68.3	226 800
28.0	72.4	67.7	203 900
30.0	70.6	67.0	184 800
32.0	68.8	66.2	168 700
34.0	67.0	65.4	154 900
36.0	65.2	64.5	142 900
38.0	63.3	63.5	132 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
68.6m (225 Ft.) BOOM			
40.0	61.4	62.4	123 200
42.0	59.5	61.2	114 900
44.0	57.5	60.0	107 600
46.0	55.5	58.6	101 000
48.0	53.4	57.1	95 000
50.0	51.3	55.6	89 600
52.0	49.1	53.8	84 600
54.0	46.8	52.0	80 000
56.0	44.4	50.0	75 800
58.0	42.0	47.8	71 900
60.0	39.4	45.4	68 300
62.0	36.6	42.8	65 000
64.0	33.7	39.9	61 900
66.0	30.4	36.6	58 900
68.0	26.9	32.8	56 200
70.0	22.8	28.4	53 700
76.2m (250 Ft.) BOOM			
16.8	82.8	78.1	326 500 *
18.0	81.9	77.9	324 100 *
20.0	80.4	77.6	318 500
22.0	78.8	77.2	291 100
24.0	77.3	76.7	253 600
26.0	75.8	76.2	225 500
28.0	74.2	75.7	202 500
30.0	72.6	75.0	183 400
32.0	71.0	74.4	167 300
34.0	69.4	73.6	153 500
36.0	67.8	72.8	141 500
38.0	66.2	71.9	131 000
40.0	64.5	71.0	121 800
42.0	62.8	70.0	113 500
44.0	61.1	68.9	106 200
46.0	59.4	67.7	99 600
48.0	57.6	66.5	93 500
50.0	55.8	65.1	88 100
52.0	53.9	63.7	83 200
54.0	52.0	62.1	78 600
56.0	50.1	60.5	74 400
58.0	48.1	58.7	70 500
60.0	46.0	56.8	66 900
62.0	43.8	54.7	63 600
64.0	41.6	52.5	60 500
66.0	39.2	50.1	57 500
68.0	36.8	47.5	54 800
70.0	34.1	44.6	52 200
72.0	31.3	41.4	49 900
74.0	28.2	37.9	47 600
76.0	24.8	33.7	45 400
78.0	20.8	28.8	43 400



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
83.8m (275 Ft.) BOOM			
18.3	82.4	85.6	286 300 *
20.0	81.3	85.3	283 100 *
22.0	79.9	84.9	277 400
24.0	78.5	84.5	254 400
26.0	77.1	84.1	224 400
28.0	75.7	83.6	201 400
30.0	74.2	83.0	182 300
32.0	72.8	82.4	166 200
34.0	71.4	81.7	152 300
36.0	69.9	81.0	140 300
38.0	68.5	80.2	129 800
40.0	67.0	79.4	120 600
42.0	65.5	78.5	112 400
44.0	64.0	77.5	105 000
46.0	62.4	76.5	98 400
48.0	60.8	75.4	92 400
50.0	59.3	74.2	86 900
52.0	57.6	72.9	82 000
54.0	56.0	71.6	77 400
56.0	54.3	70.2	73 200
58.0	52.6	68.7	69 300
60.0	50.9	67.1	65 700
62.0	49.1	65.3	62 400
64.0	47.2	63.5	59 300
66.0	45.3	61.6	56 400
68.0	43.3	59.5	53 700
70.0	41.3	57.2	51 100
72.0	39.1	54.8	48 700
74.0	36.9	52.2	46 500
76.0	34.5	49.4	44 300
78.0	32.0	46.3	42 300
80.0	29.2	42.8	40 400
82.0	26.2	38.9	38 500
84.0	22.9	34.4	36 800
86.0	19.0	29.0	35 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
91.4m (300 Ft.) BOOM			
19.8	82.1	93.0	248 700 *
20.0	82.0	93.0	248 400 *
22.0	80.7	92.7	245 500 *
24.0	79.5	92.3	242 600 *
26.0	78.2	91.9	223 100
28.0	76.9	91.4	200 000
30.0	75.6	90.9	180 900
32.0	74.3	90.4	164 700
34.0	73.0	89.8	150 900
36.0	71.7	89.1	138 900
38.0	70.3	88.4	128 400
40.0	69.0	87.6	119 100
42.0	67.6	86.8	110 900
44.0	66.3	85.9	103 500
46.0	64.9	85.0	96 900
48.0	63.5	84.0	90 900
50.0	62.1	83.0	85 500
52.0	60.6	81.9	80 500
54.0	59.2	80.7	75 900
56.0	57.7	79.4	71 700
58.0	56.2	78.1	67 900
60.0	54.7	76.7	64 300
62.0	53.1	75.2	60 900
64.0	51.5	73.6	57 800
66.0	49.9	72.0	54 900
68.0	48.2	70.2	52 200
70.0	46.5	68.3	49 700
72.0	44.7	66.3	47 200
74.0	42.9	64.2	45 000
76.0	41.0	61.9	42 800
78.0	39.0	59.5	40 800
80.0	37.0	56.9	38 900
82.0	34.8	54.1	37 100
84.0	32.5	51.0	35 400
86.0	30.1	47.7	33 700
88.0	27.4	44.0	32 200
90.0	24.5	39.8	30 600
92.0	21.2	34.9	29 200
94.0	17.3	29.0	27 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
99.1m (325 Ft.) BOOM			
19.8	82.7	100.7	212 900 *
20.0	82.6	100.7	212 900 *
22.0	81.4	100.4	212 900 *
24.0	80.3	100.1	212 900 *
26.0	79.1	99.7	212 400
28.0	77.9	99.3	199 900
30.0	76.7	98.8	179 600
32.0	75.5	98.3	163 500
34.0	74.3	97.7	149 600
36.0	73.1	97.1	137 600
38.0	71.9	96.5	127 100
40.0	70.7	95.8	117 900
42.0	69.4	95.0	109 600
44.0	68.2	94.2	102 300
46.0	66.9	93.4	95 600
48.0	65.7	92.5	89 600
50.0	64.4	91.5	84 200
52.0	63.1	90.5	79 200
54.0	61.8	89.5	74 600
56.0	60.5	88.4	70 400
58.0	59.1	87.2	66 600
60.0	57.8	85.9	63 000
62.0	56.4	84.6	59 600
64.0	55.0	83.2	56 500
66.0	53.5	81.7	53 600
68.0	52.1	80.2	50 900
70.0	50.6	78.6	48 400
72.0	49.0	76.8	46 000
74.0	47.5	75.0	43 700
76.0	45.9	73.1	41 600
78.0	44.2	71.1	39 600
80.0	42.5	68.9	37 700
82.0	40.8	66.7	35 900
84.0	39.0	64.2	34 100
86.0	37.1	61.6	32 500
88.0	35.1	58.8	31 000
90.0	33.0	55.8	29 500
92.0	30.8	52.5	27 900 *
94.0	28.4	48.9	26 300 *
96.0	25.8	44.9	24 700 *
98.0	22.9	40.4	23 200 *
100.0	19.7	35.2	21 800 *
102.0	15.8	28.8	20 400 *



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
106.7m (350 Ft.) BOOM			
21.3	82.4	108.2	177 300 *
22.0	82.1	108.1	177 300 *
24.0	81.0	107.8	177 300 *
26.0	79.9	107.4	177 300 *
28.0	78.8	107.1	177 300 *
30.0	77.7	106.6	175 100
32.0	76.6	106.1	162 000
34.0	75.5	105.6	148 100
36.0	74.4	105.1	136 100
38.0	73.2	104.5	125 600
40.0	72.1	103.8	116 400
42.0	71.0	103.2	108 100
44.0	69.8	102.4	100 700
46.0	68.7	101.7	94 100
48.0	67.5	100.8	88 200
50.0	66.4	100.0	82 700
52.0	65.2	99.0	77 700
54.0	64.0	98.1	73 100
56.0	62.8	97.0	68 900
58.0	61.5	96.0	65 100
60.0	60.3	94.8	61 500
62.0	59.1	93.7	58 100
64.0	57.8	92.4	55 000
66.0	56.5	91.1	52 100
68.0	55.2	89.7	49 400
70.0	53.9	88.3	46 800
72.0	52.5	86.7	44 500
74.0	51.2	85.1	42 200
76.0	49.8	83.5	40 100
78.0	48.3	81.7	38 100
80.0	46.9	79.9	36 200
82.0	45.4	77.9	34 400
84.0	43.8	75.8	32 600
86.0	42.2	73.7	31 000
88.0	40.6	71.4	29 400
90.0	38.9	68.9	27 700 *
92.0	37.1	66.3	26 000 *
94.0	35.3	63.5	24 400 *
96.0	33.4	60.6	22 800 *
98.0	31.3	57.4	21 300 *
100.0	29.2	53.9	19 900 *
102.0	26.9	50.0	18 500 *
104.0	24.3	45.8	17 200 *
106.0	21.5	40.9	15 900 *
108.0	18.3	35.3	14 700 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
114.3m (375 Ft.) BOOM			
21.3	82.9	115.9	148 800 *
22.0	82.6	115.8	148 800 *
24.0	81.6	115.5	148 800 *
26.0	80.6	115.2	148 800 *
28.0	79.5	114.8	148 800 *
30.0	78.5	114.4	148 800 *
32.0	77.5	114.0	148 800 *
34.0	76.5	113.5	146 200
36.0	75.4	113.0	134 900
38.0	74.4	112.4	124 300
40.0	73.3	111.8	115 000
42.0	72.3	111.2	106 800
44.0	71.2	110.5	99 400
46.0	70.2	109.8	92 800
48.0	69.1	109.1	86 800
50.0	68.0	108.3	81 300
52.0	66.9	107.4	76 300
54.0	65.8	106.5	71 800
56.0	64.7	105.6	67 600
58.0	63.6	104.6	63 700
60.0	62.5	103.6	60 100
62.0	61.3	102.5	56 800
64.0	60.2	101.3	53 700
66.0	59.0	100.1	50 800
68.0	57.8	98.9	48 000
70.0	56.6	97.6	45 500
72.0	55.4	96.2	43 100
74.0	54.2	94.8	40 900
76.0	52.9	93.3	38 800
78.0	51.7	91.7	36 700
80.0	50.4	90.1	34 800
82.0	49.0	88.4	33 000
84.0	47.7	86.5	31 300
86.0	46.3	84.7	29 600
88.0	44.9	82.7	27 800 *
90.0	43.4	80.6	26 000 *
92.0	42.0	78.4	24 300 *
94.0	40.4	76.1	22 700 *
96.0	38.8	73.6	21 200 *
98.0	37.2	71.0	19 700 *
100.0	35.5	68.3	18 300 *
102.0	33.7	65.3	16 900 *
104.0	31.8	62.2	15 600 *
106.0	29.9	58.8	14 300 *
108.0	27.7	55.1	13 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
121.9m (400 Ft.) BOOM			
22.9	82.7	123.4	126 000 *
24.0	82.1	123.2	126 000 *
26.0	81.2	122.9	126 000 *
28.0	80.2	122.6	126 000 *
30.0	79.3	122.2	126 000 *
32.0	78.3	121.8	126 000 *
34.0	77.3	121.3	126 000 *
36.0	76.4	120.9	126 000 *
38.0	75.4	120.3	122 500
40.0	74.4	119.8	113 500
42.0	73.4	119.2	105 200
44.0	72.4	118.6	97 900
46.0	71.5	117.9	91 200
48.0	70.5	117.2	85 200
50.0	69.5	116.4	79 800
52.0	68.4	115.7	74 800
54.0	67.4	114.8	70 200
56.0	66.4	114.0	66 000
58.0	65.4	113.1	62 200
60.0	64.3	112.1	58 600
62.0	63.3	111.1	55 300
64.0	62.2	110.1	52 100
66.0	61.2	109.0	49 200
68.0	60.1	107.8	46 500
70.0	59.0	106.6	44 000
72.0	57.9	105.4	41 600
74.0	56.7	104.1	39 300
76.0	55.6	102.7	37 200
78.0	54.5	101.3	35 200
80.0	53.3	99.8	33 300
82.0	52.1	98.3	31 500
84.0	50.9	96.7	29 700 *
86.0	49.7	95.0	27 700 *
88.0	48.4	93.2	25 800 *
90.0	47.1	91.4	24 100 *
92.0	45.8	89.4	22 400 *
94.0	44.5	87.4	20 700 *
96.0	43.1	85.3	19 200 *
98.0	41.7	83.1	17 700 *
100.0	40.3	80.8	16 300 *
102.0	38.8	78.3	14 900 *
104.0	37.3	75.7	13 600 *
106.0	35.7	73.0	12 400 *

Liftcrane Boom Capacities

888 RINGER

Meets
ANSI B30.5
Requirements

Boom No. 67B, 36.6m Mast No. 49A
No Jib Installed
13.7m RINGER Attachment on Screw Jack Pedestals
393 310 kg Auxiliary Counterweight
360 Degree Ratingg

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
129.5m (425 Ft.) BOOM			
24.4	82.4	130.9	105 500 *
26.0	81.7	130.6	105 500 *
28.0	80.8	130.3	105 500 *
30.0	79.9	130.0	105 500 *
32.0	79.0	129.6	105 500 *
34.0	78.1	129.1	105 500 *
36.0	77.2	128.7	105 500 *
38.0	76.3	128.2	105 500 *
40.0	75.4	127.7	105 500 *
42.0	74.4	127.1	103 100
44.0	73.5	126.5	96 600
46.0	72.6	125.9	89 900
48.0	71.7	125.3	83 800
50.0	70.7	124.6	78 400
52.0	69.8	123.8	73 400
54.0	68.8	123.1	68 800
56.0	67.9	122.3	64 600
58.0	66.9	121.4	60 700
60.0	65.9	120.5	57 200
62.0	65.0	119.6	53 800
64.0	64.0	118.6	50 700
66.0	63.0	117.6	47 800
68.0	62.0	116.6	45 100
70.0	61.0	115.5	42 600
72.0	60.0	114.3	40 200
74.0	58.9	113.1	37 900
76.0	57.9	111.9	35 800
78.0	56.8	110.6	33 800
80.0	55.8	109.2	31 900
82.0	54.7	107.8	30 000
84.0	53.6	106.3	27 900 *
86.0	52.5	104.8	26 000 *
88.0	51.4	103.2	24 100 *
90.0	50.2	101.6	22 300 *
92.0	49.0	99.9	20 600 *
94.0	47.8	98.1	19 000 *
96.0	46.6	96.2	17 500 *
98.0	45.4	94.2	16 000 *
100.0	44.1	92.2	14 600 *
102.0	42.8	90.1	13 200 *

REFERENCE
ONLY!