

Liftcrane Boom Capacities

888 RINGER

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

European Standards
 14 m/s Maximum Wind

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with DIN 15018, ISO 4305 (1.25P + 0.1F), and include factors based on a 4.0 degree tipping angle. 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, weight ball, slings, etc. beneath boom point sheaves is considered part of main boom load. Reeved hoist line included in boom weight. 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. 8077-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.

Machine may be operated in winds up to 14 m/s provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. A surface area of 1.2m²/t of rated load has been included in capacity determination. Wind will have a considerable effect on load. Loads with a surface area greater than 1.2m²/t of rated load must be compensated for accordingly by reducing load ratings, reducing operating speeds, or by a combination of both. Recommended stopping operation when wind is above 14 m/s and lowering boom to ground when wind is above 22 m/s.

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.

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

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.

Liftcrane Boom Capacities

888 RINGER

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

European Standards

14 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*)

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
38.1m (125 Ft.) BOOM			
12.2	82.6	40.2	591 400 *
14.0	79.8	39.9	536 700 *
16.0	76.7	39.5	479 700
18.0	73.6	38.9	412 000
20.0	70.4	38.2	355 100
22.0	67.2	37.4	306 600
24.0	63.8	36.4	269 300
26.0	60.4	35.3	239 700
28.0	56.8	34.0	215 400
30.0	53.1	32.5	195 300
32.0	49.1	30.9	178 400
34.0	44.9	28.9	164 000
36.0	40.4	26.6	151 600
38.0	35.4	24.0	140 800
40.0	29.6	20.7	131 500
42.0	22.4	16.3	123 400
45.7m (150 Ft.) BOOM			
13.7	81.9	47.7	539 000 *
14.0	81.5	47.7	529 100
16.0	79.0	47.3	458 300
18.0	76.4	46.8	392 500
20.0	73.8	46.2	343 800
22.0	71.2	45.6	303 800
24.0	68.5	44.8	266 600
26.0	65.7	43.9	236 800
28.0	62.9	42.9	212 500
30.0	60.0	41.8	192 400
32.0	57.1	40.5	175 400
34.0	54.0	39.1	160 900
36.0	50.8	37.5	148 400
38.0	47.4	35.7	137 500
40.0	43.8	33.6	128 000
42.0	40.0	31.3	119 600
44.0	35.8	28.7	112 200
46.0	31.2	25.5	105 600
48.0	25.7	21.7	99 900
50.0	18.8	16.5	94 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
53.3m (175 Ft.) BOOM			
15.2	81.4	55.2	462 100
16.0	80.6	55.1	436 200
18.0	78.4	54.6	375 300
20.0	76.2	54.2	329 500
22.0	73.9	53.6	292 900
24.0	71.7	52.9	262 900
26.0	69.4	52.2	234 200
28.0	67.1	51.4	209 800
30.0	64.7	50.4	189 600
32.0	62.3	49.4	172 500
34.0	59.8	48.3	158 000
36.0	57.3	47.0	145 400
38.0	54.6	45.6	134 400
40.0	51.9	44.0	124 800
42.0	49.1	42.3	116 300
44.0	46.1	40.5	108 700
46.0	43.0	38.4	102 000
48.0	39.7	36.0	96 000
50.0	36.2	33.4	90 600
52.0	32.3	30.4	85 800
54.0	27.9	26.8	81 500
56.0	22.7	22.4	77 600
61.0m (200 Ft.) BOOM			
15.2	82.5	62.9	432 100 *
16.0	81.8	62.8	412 600
18.0	79.9	62.4	361 300
20.0	77.9	62.0	317 600
22.0	76.0	61.5	282 900
24.0	74.0	61.0	254 600
26.0	72.1	60.3	230 900
28.0	70.1	59.6	209 400
30.0	68.1	58.8	188 800
32.0	66.0	57.9	171 700
34.0	63.9	57.0	157 100
36.0	61.8	55.9	144 400
38.0	59.6	54.7	133 400
40.0	57.4	53.5	123 700
42.0	55.1	52.1	115 100
44.0	52.8	50.6	107 400
46.0	50.3	49.0	100 600
48.0	47.8	47.2	94 400
50.0	45.2	45.2	88 800
52.0	42.4	43.1	83 800
54.0	39.5	40.7	79 200
56.0	36.4	38.1	75 100
58.0	33.1	35.1	71 300
60.0	29.3	31.7	67 800
62.0	25.1	27.7	64 700
64.0	20.1	22.7	62 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
68.6m (225 Ft.) BOOM			
16.8	82.0	70.4	374 900 *
18.0	81.0	70.2	346 800
20.0	79.3	69.8	306 100
22.0	77.6	69.4	273 200
24.0	75.9	68.9	246 200
26.0	74.1	68.3	223 600
28.0	72.4	67.7	204 300
30.0	70.6	67.0	187 300
32.0	68.8	66.2	170 600
34.0	67.0	65.4	155 900
36.0	65.2	64.5	143 200
38.0	63.3	63.5	132 100
40.0	61.4	62.4	122 300
42.0	59.5	61.2	113 700
44.0	57.5	60.0	106 000
46.0	55.5	58.6	99 000
48.0	53.4	57.1	92 800
50.0	51.3	55.6	87 100
52.0	49.1	53.8	82 000
54.0	46.8	52.0	77 300
56.0	44.4	50.0	73 000
58.0	42.0	47.8	69 100
60.0	39.4	45.4	65 600
62.0	36.6	42.8	62 300
64.0	33.7	39.9	59 200
66.0	30.4	36.6	56 500
68.0	26.9	32.8	53 900
70.0	22.8	28.4	51 600

Liftcrane Boom Capacities

888 RINGER

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

European Standards
14 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*)

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
76.2m (250 Ft.) BOOM			
16.8	82.8	78.1	327 100 *
18.0	81.9	77.9	324 200 *
20.0	80.4	77.6	295 400
22.0	78.8	77.2	264 100
24.0	77.3	76.7	238 300
26.0	75.8	76.2	216 600
28.0	74.2	75.7	198 100
30.0	72.6	75.0	182 100
32.0	71.0	74.4	168 200
34.0	69.4	73.6	154 900
36.0	67.8	72.8	142 100
38.0	66.2	71.9	131 000
40.0	64.5	71.0	121 200
42.0	62.8	70.0	112 500
44.0	61.1	68.9	104 700
46.0	59.4	67.7	97 700
48.0	57.6	66.5	91 400
50.0	55.8	65.1	85 700
52.0	53.9	63.7	80 500
54.0	52.0	62.1	75 800
56.0	50.1	60.5	71 500
58.0	48.1	58.7	67 500
60.0	46.0	56.8	63 800
62.0	43.8	54.7	60 400
64.0	41.6	52.5	57 300
66.0	39.2	50.1	54 400
68.0	36.8	47.5	51 700
70.0	34.1	44.6	49 200
72.0	31.3	41.4	46 900
74.0	28.2	37.9	44 800
76.0	24.8	33.7	42 800
78.0	20.8	28.8	41 000

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	282 000
22.0	79.9	84.9	254 800
24.0	78.5	84.5	229 800
26.0	77.1	84.1	209 000
28.0	75.7	83.6	191 200
30.0	74.2	83.0	175 700
32.0	72.8	82.4	162 300
34.0	71.4	81.7	150 400
36.0	69.9	81.0	139 700
38.0	68.5	80.2	128 900
40.0	67.0	79.4	119 100
42.0	65.5	78.5	110 300
44.0	64.0	77.5	102 600
46.0	62.4	76.5	95 600
48.0	60.8	75.4	89 300
50.0	59.3	74.2	83 600
52.0	57.6	72.9	78 400
54.0	56.0	71.6	73 600
56.0	54.3	70.2	69 200
58.0	52.6	68.7	65 200
60.0	50.9	67.1	61 500
62.0	49.1	65.3	58 100
64.0	47.2	63.5	54 900
66.0	45.3	61.6	52 000
68.0	43.3	59.5	49 300
70.0	41.3	57.2	46 800
72.0	39.1	54.8	44 400
74.0	36.9	52.2	42 200
76.0	34.5	49.4	40 200
78.0	32.0	46.3	38 300
80.0	29.2	42.8	36 500
82.0	26.2	38.9	34 900
84.0	22.9	34.4	33 400
86.0	19.0	29.0	32 100

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	242 800
24.0	79.5	92.3	223 600
26.0	78.2	91.9	202 800
28.0	76.9	91.4	185 700
30.0	75.6	90.9	170 800
32.0	74.3	90.4	157 700
34.0	73.0	89.8	146 200
36.0	71.7	89.1	136 000
38.0	70.3	88.4	126 800
40.0	69.0	87.6	118 400
42.0	67.6	86.8	109 600
44.0	66.3	85.9	101 800
46.0	64.9	85.0	94 800
48.0	63.5	84.0	88 400
50.0	62.1	83.0	82 700
52.0	60.6	81.9	77 500
54.0	59.2	80.7	72 700
56.0	57.7	79.4	68 300
58.0	56.2	78.1	64 200
60.0	54.7	76.7	60 400
62.0	53.1	75.2	57 000
64.0	51.5	73.6	53 800
66.0	49.9	72.0	50 700
68.0	48.2	70.2	48 000
70.0	46.5	68.3	45 400
72.0	44.7	66.3	43 000
74.0	42.9	64.2	40 700
76.0	41.0	61.9	38 500
78.0	39.0	59.5	36 600
80.0	37.0	56.9	34 700
82.0	34.8	54.1	32 900
84.0	32.5	51.0	31 300
86.0	30.1	47.7	29 800
88.0	27.4	44.0	28 300
90.0	24.5	39.8	27 000
92.0	21.2	34.9	25 800
94.0	17.3	29.0	24 700

Liftcrane Boom Capacities

888 RINGER

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

European Standards

14 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*)

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	211 400
26.0	79.1	99.7	195 700
28.0	77.9	99.3	179 200
30.0	76.7	98.8	164 800
32.0	75.5	98.3	152 200
34.0	74.3	97.7	141 000
36.0	73.1	97.1	131 000
38.0	71.9	96.5	122 100
40.0	70.7	95.8	114 100
42.0	69.4	95.0	106 700
44.0	68.2	94.2	99 700
46.0	66.9	93.4	92 700
48.0	65.7	92.5	86 400
50.0	64.4	91.5	80 600
52.0	63.1	90.5	75 400
54.0	61.8	89.5	70 600
56.0	60.5	88.4	66 200
58.0	59.1	87.2	62 100
60.0	57.8	85.9	58 300
62.0	56.4	84.6	54 900
64.0	55.0	83.2	51 600
66.0	53.5	81.7	48 600
68.0	52.1	80.2	45 800
70.0	50.6	78.6	43 200
72.0	49.0	76.8	40 700
74.0	47.5	75.0	38 500
76.0	45.9	73.1	36 300
78.0	44.2	71.1	34 300
80.0	42.5	68.9	32 400
82.0	40.8	66.7	30 600
84.0	39.0	64.2	29 000
86.0	37.1	61.6	27 400
88.0	35.1	58.8	25 900
90.0	33.0	55.8	24 500
92.0	30.8	52.5	23 200
94.0	28.4	48.9	22 000
96.0	25.8	44.9	20 900
98.0	22.9	40.4	19 800
100.0	19.7	35.2	18 900
102.0	15.8	28.8	18 000

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	173 700
30.0	77.7	106.6	160 700
32.0	76.6	106.1	148 300
34.0	75.5	105.6	137 400
36.0	74.4	105.1	127 700
38.0	73.2	104.5	119 100
40.0	72.1	103.8	111 200
42.0	71.0	103.2	104 100
44.0	69.8	102.4	97 600
46.0	68.7	101.7	91 600
48.0	67.5	100.8	86 000
50.0	66.4	100.0	80 200
52.0	65.2	99.0	74 900
54.0	64.0	98.1	70 100
56.0	62.8	97.0	65 700
58.0	61.5	96.0	61 600
60.0	60.3	94.8	57 800
62.0	59.1	93.7	54 300
64.0	57.8	92.4	51 000
66.0	56.5	91.1	48 000
68.0	55.2	89.7	45 100
70.0	53.9	88.3	42 500
72.0	52.5	86.7	40 000
74.0	51.2	85.1	37 700
76.0	49.8	83.5	35 500
78.0	48.3	81.7	33 400
80.0	46.9	79.9	31 400
82.0	45.4	77.9	29 600
84.0	43.8	75.8	27 900
86.0	42.2	73.7	26 200
88.0	40.6	71.4	24 700
90.0	38.9	68.9	23 200
92.0	37.1	66.3	21 800
94.0	35.3	63.5	20 500
96.0	33.4	60.6	19 200
98.0	31.3	57.4	18 100
100.0	29.2	53.9	16 900
102.0	26.9	50.0	15 900
104.0	24.3	45.8	14 900
106.0	21.5	40.9	14 000 *
108.0	18.3	35.3	13 000 *

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	143 000
34.0	76.5	113.5	132 500
36.0	75.4	113.0	123 100
38.0	74.4	112.4	114 600
40.0	73.3	111.8	106 900
42.0	72.3	111.2	100 000
44.0	71.2	110.5	93 600
46.0	70.2	109.8	87 800
48.0	69.1	109.1	82 400
50.0	68.0	108.3	77 500
52.0	66.9	107.4	72 900
54.0	65.8	106.5	68 100
56.0	64.7	105.6	63 700
58.0	63.6	104.6	59 600
60.0	62.5	103.6	55 800
62.0	61.3	102.5	52 300
64.0	60.2	101.3	49 000
66.0	59.0	100.1	46 000
68.0	57.8	98.9	43 100
70.0	56.6	97.6	40 500
72.0	55.4	96.2	38 000
74.0	54.2	94.8	35 600
76.0	52.9	93.3	33 400
78.0	51.7	91.7	31 300
80.0	50.4	90.1	29 400
82.0	49.0	88.4	27 600
84.0	47.7	86.5	25 800
86.0	46.3	84.7	24 100
88.0	44.9	82.7	22 600
90.0	43.4	80.6	21 100
92.0	42.0	78.4	19 700
94.0	40.4	76.1	18 400
96.0	38.8	73.6	17 100
98.0	37.2	71.0	15 900
100.0	35.5	68.3	14 700
102.0	33.7	65.3	13 700
104.0	31.8	62.2	12 600 *

Liftcrane Boom Capacities

888 RINGER

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

 European Standards
14 m/s Maximum Wind

 Capacities based on structural competence
are denoted by an asterisk (*)

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	124 900
36.0	76.4	120.9	118 700
38.0	75.4	120.3	110 000
40.0	74.4	119.8	102 500
42.0	73.4	119.2	95 700
44.0	72.4	118.6	89 500
46.0	71.5	117.9	83 800
48.0	70.5	117.2	78 500
50.0	69.5	116.4	73 700
52.0	68.4	115.7	69 200
54.0	67.4	114.8	65 000
56.0	66.4	114.0	61 200
58.0	65.4	113.1	57 300
60.0	64.3	112.1	53 600
62.0	63.3	111.1	50 000
64.0	62.2	110.1	46 800
66.0	61.2	109.0	43 700
68.0	60.1	107.8	40 900
70.0	59.0	106.6	38 200
72.0	57.9	105.4	35 700
74.0	56.7	104.1	33 400
76.0	55.6	102.7	31 100
78.0	54.5	101.3	29 100
80.0	53.3	99.8	27 100
82.0	52.1	98.3	25 300
84.0	50.9	96.7	23 500
86.0	49.7	95.0	21 800
88.0	48.4	93.2	20 300
90.0	47.1	91.4	18 800
92.0	45.8	89.4	17 300
94.0	44.5	87.4	16 000
96.0	43.1	85.3	14 700
98.0	41.7	83.1	13 500
100.0	40.3	80.8	12 300

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	105 200
40.0	75.4	127.7	98 300
42.0	74.4	127.1	91 700
44.0	73.5	126.5	85 600
46.0	72.6	125.9	80 000
48.0	71.7	125.3	74 800
50.0	70.7	124.6	70 100
52.0	69.8	123.8	65 700
54.0	68.8	123.1	61 600
56.0	67.9	122.3	57 800
58.0	66.9	121.4	54 300
60.0	65.9	120.5	50 900
62.0	65.0	119.6	47 800
64.0	64.0	118.6	44 700
66.0	63.0	117.6	41 700
68.0	62.0	116.6	38 800
70.0	61.0	115.5	36 100
72.0	60.0	114.3	33 700
74.0	58.9	113.1	31 300
76.0	57.9	111.9	29 100
78.0	56.8	110.6	27 000
80.0	55.8	109.2	25 000
82.0	54.7	107.8	23 200
84.0	53.6	106.3	21 400
86.0	52.5	104.8	19 700
88.0	51.4	103.2	18 200
90.0	50.2	101.6	16 700
92.0	49.0	99.9	15 200
94.0	47.8	98.1	13 900
96.0	46.6	96.2	12 600