

Liftcrane Boom Capacities

Boom No. 49A-44 With Heavy Lift Top
No Crane Counterweight
181 440 kg Wheeled Counterweight
360 Degree Rating

MAX-ER 400
On 2250 or
M-250

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 (*).

Wheeled counterweight must be attached to support beam and MAX-ER mode must be selected to operate. Swing and travel (forward or side crawl) requires proper position of counterweight wheels when contacting ground. Lower boom to ground before removing wheeled counterweight.

Upper boom point capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 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, 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 gantry and mast up. Refer to boom rigging **No. 176364** or **No. 192633**, Wire Rope Specification chart **No. 7581-L** and Counterweight Arrangement chart **No. 7692-A** or **No. 8026-A**. Crane operator judgment must be used to allow for dynamic load effects of

swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface with boom within boom angle range shown in capacity chart. Travel may be limited depending upon ground conditions. Refer to Maximum Allowable Travel Specification chart **No. 7748-B** when operating without load.

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 MAX-ER 400, 9 373 mm crawlers, 1 219 mm treads, 8 534 mm retractable gantry, 24.4m mast, 12 part boom hoist reeving, four 38 mm boom pendants or boom support straps, no crane counterweight and 181 440 kg wheeled counterweight.

Maximum boom length lifted unassisted over side or end = 91.4m
Load block, hook and weight ball on ground at start.



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.4	82.7	33.2	226 700 *
6.5	82.5	33.2	226 700 *
7.0	81.6	33.1	226 700 *
7.5	80.6	33.0	226 700 *
8.0	79.6	32.9	226 700 *
8.5	78.7	32.8	226 700 *
9.0	77.7	32.6	226 700 *
10.0	75.8	32.4	226 700 *
11.0	73.8	32.1	221 600 *
12.0	71.8	31.7	203 200 *
13.0	69.8	31.3	187 600 *
14.0	67.8	30.9	174 200 *
15.0	65.7	30.5	162 400 *
16.0	63.6	30.0	152 100 *
18.0	59.2	28.8	134 700 *
20.0	54.7	27.4	120 800 *
22.0	49.8	25.8	109 200 *
24.0	44.5	23.8	99 600 *
26.0	38.7	21.4	90 300
28.0	31.9	18.4	82 100
36.6m (120 Ft.) BOOM			
7.0	83.0	39.2	226 700 *
7.5	82.2	39.2	226 700 *
8.0	81.4	39.1	226 700 *
8.5	80.6	39.0	226 700 *
9.0	79.8	38.9	226 700 *
10.0	78.2	38.7	226 700 *
11.0	76.6	38.4	221 500 *
12.0	75.0	38.1	203 000 *
13.0	73.3	37.8	187 500 *
14.0	71.7	37.5	174 000 *
15.0	70.0	37.1	162 300 *
16.0	68.3	36.7	151 900 *
18.0	64.8	35.8	134 600 *
20.0	61.3	34.7	120 600 *
22.0	57.6	33.5	109 100 *
24.0	53.7	32.0	99 500 *
26.0	49.7	30.4	90 400
28.0	45.3	28.4	82 200
30.0	40.6	26.2	75 200
32.0	35.3	23.5	69 300
34.0	29.2	20.1	64 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.7	45.3	226 700 *
8.0	82.6	45.3	226 700 *
8.5	82.0	45.2	226 700 *
9.0	81.3	45.1	226 700 *
10.0	79.9	44.9	226 700 *
11.0	78.5	44.7	219 300 *
12.0	77.2	44.5	201 000 *
13.0	75.8	44.2	185 400 *
14.0	74.4	43.9	172 000 *
15.0	73.0	43.6	160 300 *
16.0	71.5	43.2	150 000 *
18.0	68.7	42.5	132 700 *
20.0	65.7	41.6	118 800 *
22.0	62.7	40.6	107 300 *
24.0	59.6	39.4	97 700 *
26.0	56.4	38.1	88 900
28.0	53.1	36.6	80 700
30.0	49.6	35.0	73 800
32.0	45.9	33.1	67 800
34.0	41.9	30.9	62 600
36.0	37.6	28.4	58 000
38.0	32.8	25.4	54 000
48.8m (160 Ft.) BOOM			
8.5	82.9	51.3	226 700 *
9.0	82.4	51.3	226 700 *
10.0	81.2	51.1	226 700 *
11.0	80.0	50.9	219 100 *
12.0	78.8	50.7	200 700 *
13.0	77.6	50.5	185 200 *
14.0	76.4	50.2	171 800 *
15.0	75.2	50.0	160 100 *
16.0	73.9	49.7	149 800 *
18.0	71.5	49.0	132 500 *
20.0	68.9	48.2	118 600 *
22.0	66.4	47.4	107 100 *
24.0	63.8	46.4	97 500 *
26.0	61.1	45.3	89 000
28.0	58.3	44.1	80 800
30.0	55.5	42.7	73 800
32.0	52.6	41.2	67 800
34.0	49.5	39.5	62 600
36.0	46.3	37.7	58 000
38.0	42.9	35.6	54 000
40.0	39.2	33.2	50 400
42.0	35.2	30.4	47 200
44.0	30.8	27.2	44 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.8	82.4	57.3	221 800 *
10.0	82.2	57.3	221 600 *
11.0	81.1	57.1	217 700 *
12.0	80.1	56.9	199 300 *
13.0	79.0	56.7	183 700 *
14.0	77.9	56.5	170 400 *
15.0	76.8	56.3	158 700 *
16.0	75.8	56.0	148 300 *
18.0	73.6	55.4	131 100 *
20.0	71.4	54.8	117 200 *
22.0	69.2	54.0	105 700 *
24.0	66.9	53.2	96 100 *
26.0	64.6	52.2	87 800
28.0	62.2	51.2	79 500
30.0	59.8	50.0	72 600
32.0	57.3	48.8	66 600
34.0	54.8	47.4	61 400
36.0	52.2	45.8	56 800
38.0	49.4	44.1	52 800
40.0	46.6	42.3	49 100
42.0	43.6	40.2	45 900
44.0	40.4	37.9	43 000
46.0	37.0	35.4	40 400
48.0	33.3	32.4	37 900
50.0	29.1	29.0	35 700

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61.0m (200 Ft.) BOOM			
10.4	82.6	63.4	209 500 *
11.0	82.0	63.3	207 600 *
12.0	81.1	63.1	200 000 *
13.0	80.1	62.9	183 400 *
14.0	79.1	62.8	170 000 *
15.0	78.2	62.5	158 300 *
16.0	77.2	62.3	148 000 *
18.0	75.3	61.8	130 700 *
20.0	73.3	61.2	116 800 *
22.0	71.3	60.5	105 400 *
24.0	69.3	59.8	95 700 *
26.0	67.3	58.9	87 600
28.0	65.2	58.0	79 400
30.0	63.1	57.0	72 400
32.0	61.0	55.9	66 400
34.0	58.8	54.7	61 200
36.0	56.5	53.4	56 600
38.0	54.2	52.0	52 600
40.0	51.9	50.4	49 000
42.0	49.4	48.7	45 700
44.0	46.8	46.9	42 800
46.0	44.2	44.9	40 100
48.0	41.3	42.6	37 800
50.0	38.4	40.2	35 500
52.0	35.2	37.4	33 500
54.0	31.7	34.3	31 600
56.0	27.8	30.7	29 900
67.1m (220 Ft.) BOOM			
11.0	82.8	69.5	165 400 *
12.0	81.9	69.3	164 800 *
13.0	81.0	69.1	164 300 *
14.0	80.1	69.0	163 800 *
15.0	79.3	68.8	157 600 *
16.0	78.4	68.6	148 300 *
18.0	76.6	68.1	130 300 *
20.0	74.9	67.6	116 500 *
22.0	73.1	66.9	105 000 *
24.0	71.3	66.3	95 400 *
26.0	69.5	65.5	87 200
28.0	67.6	64.7	79 200
30.0	65.7	63.8	72 200
32.0	63.8	62.8	66 200
34.0	61.9	61.8	61 000
36.0	59.9	60.6	56 500
38.0	57.9	59.4	52 400
40.0	55.9	58.1	48 800
42.0	53.8	56.6	45 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67.1m (220 Ft.) BOOM			
44.0	51.6	55.0	42 600
46.0	49.4	53.3	40 000
48.0	47.0	51.5	37 500
50.0	44.6	49.5	35 300
52.0	42.1	47.3	33 300
54.0	39.4	45.0	31 400
56.0	36.6	42.3	29 700
58.0	33.6	39.4	28 100
60.0	30.3	36.1	26 600
62.0	26.6	32.3	25 200
73.2m (240 Ft.) BOOM			
11.6	82.9	75.5	157 300 *
12.0	82.6	75.5	157 100 *
13.0	81.8	75.3	156 700 *
14.0	81.0	75.2	153 500 *
15.0	80.2	75.0	148 300 *
16.0	79.4	74.8	143 400 *
18.0	77.8	74.4	130 600 *
20.0	76.2	73.9	116 200 *
22.0	74.5	73.3	104 800 *
24.0	72.9	72.7	95 200 *
26.0	71.3	72.0	87 000
28.0	69.6	71.3	79 200
30.0	67.9	70.5	72 100
32.0	66.2	69.6	66 100
34.0	64.4	68.7	60 900
36.0	62.7	67.6	56 400
38.0	60.9	66.5	52 300
40.0	59.1	65.3	48 700
42.0	57.2	64.1	45 400
44.0	55.3	62.7	42 500
46.0	53.4	61.2	39 900
48.0	51.4	59.6	37 400
50.0	49.3	57.9	35 200
52.0	47.2	56.1	33 200
54.0	45.0	54.1	31 300
56.0	42.7	52.0	29 600
58.0	40.3	49.7	28 000
60.0	37.8	47.2	26 500
62.0	35.1	44.4	25 100
64.0	32.2	41.3	23 800
66.0	29.1	37.8	22 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79.2m (260 Ft.) BOOM			
12.2	83.0	81.6	126 400 *
13.0	82.4	81.5	123 200 *
14.0	81.7	81.3	119 400 *
15.0	80.9	81.2	115 700 *
16.0	80.2	81.0	112 200 *
18.0	78.7	80.6	105 500 *
20.0	77.3	80.1	99 300 *
22.0	75.8	79.6	93 600 *
24.0	74.3	79.1	88 300 *
26.0	72.7	78.5	83 400 *
28.0	71.2	77.8	78 400
30.0	69.7	77.1	72 000
32.0	68.1	76.3	65 800
34.0	66.5	75.4	60 600
36.0	65.0	74.5	56 000
38.0	63.3	73.5	52 000
40.0	61.7	72.4	48 300
42.0	60.0	71.3	45 100
44.0	58.3	70.0	42 200
46.0	56.6	68.7	39 600
48.0	54.8	67.3	37 100
50.0	53.0	65.8	34 900
52.0	51.2	64.2	32 900
54.0	49.3	62.5	31 000
56.0	47.3	60.7	29 300
58.0	45.3	58.8	27 700
60.0	43.2	56.7	26 200
62.0	41.0	54.4	24 800
64.0	38.8	52.0	23 500
66.0	36.3	49.3	22 300
68.0	33.8	46.4	21 100
70.0	31.0	43.2	19 300 *
72.0	28.1	39.5	17 300 *



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85.3m (280 Ft.) BOOM			
13.4	82.7	87.6	112 000 *
14.0	82.3	87.5	110 000 *
15.0	81.6	87.3	106 700 *
16.0	80.9	87.2	103 500 *
18.0	79.5	86.8	97 300 *
20.0	78.2	86.4	91 600 *
22.0	76.8	85.9	86 300 *
24.0	75.4	85.4	81 300 *
26.0	74.0	84.8	76 600 *
28.0	72.6	84.2	72 300 *
30.0	71.2	83.5	68 300 *
32.0	69.8	82.8	64 400 *
34.0	68.3	82.0	60 500
36.0	66.9	81.2	55 800
38.0	65.4	80.3	51 800
40.0	63.9	79.3	48 100
42.0	62.4	78.3	44 900
44.0	60.8	77.1	42 000
46.0	59.3	76.0	39 300
48.0	57.7	74.7	36 900
50.0	56.1	73.4	34 700
52.0	54.4	72.0	32 700
54.0	52.8	70.5	30 800
56.0	51.0	68.9	29 100
58.0	49.3	67.1	27 500
60.0	47.5	65.3	25 900
62.0	45.6	63.4	24 500
64.0	43.7	61.3	22 800
66.0	41.7	59.1	21 000 *
68.0	39.6	56.7	19 100 *
70.0	37.4	54.2	17 300 *
72.0	35.1	51.4	15 600 *
74.0	32.6	48.3	13 800 *
76.0	30.0	44.9	12 100 *
78.0	27.1	41.2	10 500 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
91.4m (300 Ft.) BOOM			
14.0	82.8	93.7	88 200 *
15.0	82.2	93.5	85 700 *
16.0	81.5	93.4	83 300 *
18.0	80.3	93.0	78 600 *
20.0	79.0	92.6	74 100 *
22.0	77.7	92.2	69 800 *
24.0	76.4	91.7	65 800 *
26.0	75.1	91.2	62 100 *
28.0	73.8	90.6	58 500 *
30.0	72.5	90.0	55 100 *
32.0	71.2	89.3	51 800 *
34.0	69.8	88.6	48 800 *
36.0	68.5	87.8	45 900 *
38.0	67.1	87.0	43 100 *
40.0	65.8	86.1	40 500 *
42.0	64.4	85.1	37 900 *
44.0	63.0	84.1	35 500 *
46.0	61.5	83.0	33 200 *
48.0	60.1	81.9	31 000 *
50.0	58.6	80.7	28 800 *
52.0	57.1	79.4	26 700 *
54.0	55.6	78.0	24 700 *
56.0	54.1	76.6	22 800 *
58.0	52.5	75.1	20 900 *
60.0	50.9	73.5	19 100 *
62.0	49.3	71.7	17 300 *
64.0	47.6	69.9	15 600 *
66.0	45.8	68.0	13 900 *
68.0	44.0	66.0	12 300 *
70.0	42.2	63.8	10 800 *
72.0	40.3	61.5	9 200 *
74.0	38.3	59.0	7 800 *
76.0	36.2	56.3	6 300 *