



Liftcrane Boom Capacities

Boom No. 49A-44 With Heavy Lift Top
76 750 kg (2250) Crane Counterweight
or 75 750 kg (M-250) Crane Counterweight
27 220 kg Carbody Counterweight
102 060 kg Hanging Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

Meets
ANSI B30.5
Requirements

MAX-ER 225
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 over front of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

Hanging counterweight must be attached to support beam and MAX-ER mode must be selected to operate. Minimum boom capacity to raise hanging counterweight free of ground support is required for swing. Do not allow hanging counterweight to contact ground while swinging.

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. Whip line operation is not allowed where minimum boom capacity to swing exceeds 13 610 kg for single part line or 27 220 kg for two part line or whip line load.

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib 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 in a level position on a firm uniformly supporting surface with gantry and mast up and front tumbler properly blocked so that centerline of idler tumbler becomes tipping fulcrum. Travel drive must be to rear of machine. Swing is limited to that sector shown on Operating Range Diagram **No. 7582-A** or **No. 8029-A**. Refer to boom rigging **No. 175604** or **No. 192107**,

Wire Rope Specification chart **No. 7581-D** 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, 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 MAX-ER 225, 9 373 mm crawlers, 1 219 mm treads, 8 534 mm retractable gantry, 39.6m mast, 8 part boom hoist reeving, four 38 mm boom pendants or boom support straps, 76 750 kg (2250) crane counterweight or 75 750 kg (M-250) crane counterweight, two 13 610 kg carbody counterweights and 102 060 kg hanging counterweight.

WARNING: Check amount of hanging counterweight on machine before use of this chart. Refer to Counterweight Assembly.

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.

Maximum Boom and Jib Lengths Lifted Unassisted Over Front of Blocked Crawlers	
Boom Length	Jib No. 132
103.6m	---
103.6m	36.6m
Load block, hook and weight ball on ground at start.	

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 132
12.2m	2 900 kg
18.3m	3 720 kg
24.4m	4 670 kg
30.5m	5 810 kg
36.6m	6 940 kg



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MAX-ER 225 On 2250 or M-250

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM				
10.0	79.9	44.9	147 900	223 400 *
11.0	78.5	44.7	129 700	206 100 *
12.0	77.2	44.5	115 100	188 900 *
13.0	75.8	44.2	103 200	174 300 *
14.0	74.4	43.9	93 300	161 700 *
15.0	73.0	43.6	84 900	150 700 *
16.0	71.5	43.2	77 700	141 000 *
18.0	68.7	42.5	66 100	124 700 *
20.0	65.7	41.6	57 100	111 600 *
22.0	62.7	40.6	49 800	100 800 *
24.0	59.6	39.4	43 900	91 700 *
26.0	56.4	38.1	38 900	84 100 *
28.0	53.1	36.6	34 800	77 400 *
30.0	49.6	35.0	31 200	71 700 *
32.0	45.9	33.1	28 100	66 600 *
34.0	41.9	30.9	25 300	61 900 *
36.0	37.6	28.4	22 900	56 700 *
38.0	32.8	25.4	20 700	52 000 *
48.8m (160 Ft.) BOOM				
10.0	81.2	51.1	150 200	222 200 *
11.0	80.0	50.9	131 200	205 600 *
12.0	78.8	50.7	116 300	188 500 *
13.0	77.6	50.5	104 200	173 800 *
14.0	76.4	50.2	94 100	161 300 *
15.0	75.2	50.0	85 500	150 200 *
16.0	73.9	49.7	78 200	140 600 *
18.0	71.5	49.0	66 400	124 300 *
20.0	68.9	48.2	57 200	111 200 *
22.0	66.4	47.4	49 900	100 400 *
24.0	63.8	46.4	43 900	91 400 *
26.0	61.1	45.3	38 900	83 700 *
28.0	58.3	44.1	34 700	77 100 *
30.0	55.5	42.7	31 100	71 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM				
32.0	52.6	41.2	27 900	66 300 *
34.0	49.5	39.5	25 200	61 800 *
36.0	46.3	37.7	22 800	57 800 *
38.0	42.9	35.6	20 600	54 200 *
40.0	39.2	33.2	18 700	50 500 *
42.0	35.2	30.4	16 900	46 700 *
44.0	30.8	27.2	15 300	43 100 *
54.9m (180 Ft.) BOOM				
9.8	82.4	57.3	157 000	224 500 *
10.0	82.2	57.3	151 700	221 400 *
11.0	81.1	57.1	132 200	204 200 *
12.0	80.1	56.9	116 800	187 100 *
13.0	79.0	56.7	104 300	172 500 *
14.0	77.9	56.5	93 900	159 900 *
15.0	76.8	56.3	85 200	148 900 *
16.0	75.8	56.0	77 700	139 200 *
18.0	73.6	55.4	65 600	122 900 *
20.0	71.4	54.8	56 300	109 800 *
22.0	69.2	54.0	48 700	99 000 *
24.0	66.9	53.2	42 700	90 000 *
26.0	64.6	52.2	37 600	82 300 *
28.0	62.2	51.2	33 300	75 700 *
30.0	59.8	50.0	29 600	69 900 *
32.0	57.3	48.8	26 400	64 900 *
34.0	54.8	47.4	23 600	60 400 *
36.0	52.2	45.8	21 200	56 400 *
38.0	49.4	44.1	19 000	52 800 *
40.0	46.6	42.3	17 000	49 600 *
42.0	43.6	40.2	15 300	46 600 *
44.0	40.4	37.9	13 700	43 600 *
46.0	37.0	35.4	12 200	40 400 *
48.0	33.3	32.4	10 900	37 400 *
50.0	29.1	29.0	9 600	34 600 *



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Boom No. 49A-44 With Heavy Lift Top
76 750 kg (2250) Crane Counterweight
or 75 750 kg (M-250) Crane Counterweight
27 220 kg Carbody Counterweight
102 060 kg Hanging Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

Meets
ANSI B30.5
Requirements

MAX-ER 225 On 2250 or M-250

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
61.0m (200 Ft.) BOOM				
10.4	82.6	63.4	146 500	216 400 *
11.0	82.0	63.3	134 400	203 900 *
12.0	81.1	63.1	118 600	186 800 *
13.0	80.1	62.9	105 800	172 200 *
14.0	79.1	62.8	95 200	159 600 *
15.0	78.2	62.5	86 300	148 600 *
16.0	77.2	62.3	78 600	138 900 *
18.0	75.3	61.8	66 200	122 600 *
20.0	73.3	61.2	56 700	109 500 *
22.0	71.3	60.5	49 100	98 700 *
24.0	69.3	59.8	42 900	89 600 *
26.0	67.3	58.9	37 700	81 900 *
28.0	65.2	58.0	33 300	75 300 *
30.0	63.1	57.0	29 600	69 600 *
32.0	61.0	55.9	26 400	64 500 *
34.0	58.8	54.7	23 500	60 000 *
36.0	56.5	53.4	21 100	56 000 *
38.0	54.2	52.0	18 800	52 500 *
40.0	51.9	50.4	16 900	49 200 *
42.0	49.4	48.7	15 100	46 300 *
44.0	46.8	46.9	13 400	43 700 *
46.0	44.2	44.9	12 000	41 200 *
48.0	41.3	42.6	10 600	38 800 *
50.0	38.4	40.2	9 400	36 100 *
52.0	35.2	37.4	8 200	33 600 *
54.0	31.7	34.3	7 200	31 100 *
56.0	27.8	30.7	6 200	28 800 *
67.1m (220 Ft.) BOOM				
12.0	81.9	69.3	120 400	176 400 *
13.0	81.0	69.1	107 100	172 400 *
14.0	80.1	69.0	96 300	159 100 *
15.0	79.3	68.8	87 100	148 100 *
16.0	78.4	68.6	79 300	138 400 *
18.0	76.6	68.1	66 700	122 100 *
20.0	74.9	67.6	57 000	109 000 *
22.0	73.1	66.9	49 300	98 200 *
24.0	71.3	66.3	42 900	89 200 *
26.0	69.5	65.5	37 700	81 500 *
28.0	67.6	64.7	33 300	74 900 *
30.0	65.7	63.8	29 500	69 100 *
32.0	63.8	62.8	26 200	64 100 *
34.0	61.9	61.8	23 300	59 600 *
36.0	59.9	60.6	20 800	55 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
67.1m (220 Ft.) BOOM				
38.0	57.9	59.4	18 600	52 000 *
40.0	55.9	58.1	16 600	48 800 *
42.0	53.8	56.6	14 800	45 900 *
44.0	51.6	55.0	13 100	43 200 *
46.0	49.4	53.3	11 600	40 800 *
48.0	47.0	51.5	10 300	38 500 *
50.0	44.6	49.5	9 100	36 400 *
52.0	42.1	47.3	7 900	34 500 *
54.0	39.4	45.0	6 800	32 200 *
56.0	36.6	42.3	5 800	29 900 *
58.0	33.6	39.4	4 900	27 800 *
60.0	30.3	36.1	4 000	25 800 *
62.0	26.6	32.3	3 200	23 800 *
73.2m (240 Ft.) BOOM				
13.0	81.8	75.3	108 600	167 000 *
14.0	81.0	75.2	97 500	158 900 *
15.0	80.2	75.0	88 200	147 800 *
16.0	79.4	74.8	80 200	138 100 *
18.0	77.8	74.4	67 400	121 900 *
20.0	76.2	73.9	57 500	108 800 *
22.0	74.5	73.3	49 600	97 900 *
24.0	72.9	72.7	43 200	88 900 *
26.0	71.3	72.0	37 900	81 300 *
28.0	69.6	71.3	33 400	74 600 *
30.0	67.9	70.5	29 500	68 900 *
32.0	66.2	69.6	26 300	63 800 *
34.0	64.4	68.7	23 300	59 400 *
36.0	62.7	67.6	20 800	55 400 *
38.0	60.9	66.5	18 500	51 800 *
40.0	59.1	65.3	16 500	48 500 *
42.0	57.2	64.1	14 700	45 600 *
44.0	55.3	62.7	13 000	42 900 *
46.0	53.4	61.2	11 500	40 500 *
48.0	51.4	59.6	10 100	38 300 *
50.0	49.3	57.9	8 900	36 200 *
52.0	47.2	56.1	7 700	34 300 *
54.0	45.0	54.1	6 700	32 500 *
56.0	42.7	52.0	5 700	30 800 *
58.0	40.3	49.7	4 700	28 800 *
60.0	37.8	47.2	3 900	26 900 *
62.0	35.1	44.4	3 100	25 000 *
64.0	32.2	41.3	2 300	23 300 *
66.0	29.1	37.8	1 600	21 600 *



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Boom No. 49A-44 With Heavy Lift Top
76 750 kg (2250) Crane Counterweight
or 75 750 kg (M-250) Crane Counterweight
27 220 kg Carbody Counterweight
102 060 kg Hanging Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

Meets
ANSI B30.5
Requirements

MAX-ER 225

On 2250 or M-250

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
79.2m (260 Ft.) BOOM				
14.0	81.7	81.3	98 500	142 400 *
15.0	80.9	81.2	89 000	139 600 *
16.0	80.2	81.0	80 800	135 600 *
18.0	78.7	80.6	67 800	121 900 *
20.0	77.3	80.1	57 700	108 300 *
22.0	75.8	79.6	49 700	97 500 *
24.0	74.3	79.1	43 200	88 500 *
26.0	72.7	78.5	37 900	80 800 *
28.0	71.2	77.8	33 300	74 200 *
30.0	69.7	77.1	29 400	68 400 *
32.0	68.1	76.3	26 100	63 400 *
34.0	66.5	75.4	23 200	58 900 *
36.0	65.0	74.5	20 600	54 900 *
38.0	63.3	73.5	18 300	51 400 *
40.0	61.7	72.4	16 300	48 100 *
42.0	60.0	71.3	14 400	45 200 *
44.0	58.3	70.0	12 800	42 600 *
46.0	56.6	68.7	11 200	40 100 *
48.0	54.8	67.3	9 900	37 900 *
50.0	53.0	65.8	8 600	35 800 *
52.0	51.2	64.2	7 400	33 900 *
54.0	49.3	62.5	6 400	32 100 *
56.0	47.3	60.7	5 300	30 500 *
58.0	45.3	58.8	4 400	29 000 *
60.0	43.2	56.7	3 600	27 400 *
62.0	41.0	54.4	2 700	25 700 *
64.0	38.8	52.0	2 000	23 900 *
66.0	36.3	49.3	1 200	22 300 *
68.0	33.8	46.4	600	20 700 *
70.0	31.0	43.2		19 200 *
72.0	28.1	39.5		17 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
85.3m (280 Ft.) BOOM				
15.0	81.6	87.3	90 000	127 600 *
16.0	80.9	87.2	81 600	125 100 *
18.0	79.5	86.8	68 300	119 800 *
20.0	78.2	86.4	58 100	108 000 *
22.0	76.8	85.9	50 000	97 200 *
24.0	75.4	85.4	43 400	88 100 *
26.0	74.0	84.8	38 000	80 500 *
28.0	72.6	84.2	33 400	73 900 *
30.0	71.2	83.5	29 500	68 100 *
32.0	69.8	82.8	26 100	63 100 *
34.0	68.3	82.0	23 100	58 600 *
36.0	66.9	81.2	20 500	54 600 *
38.0	65.4	80.3	18 200	51 100 *
40.0	63.9	79.3	16 100	47 800 *
42.0	62.4	78.3	14 300	44 900 *
44.0	60.8	77.1	12 600	42 200 *
46.0	59.3	76.0	11 100	39 800 *
48.0	57.7	74.7	9 700	37 500 *
50.0	56.1	73.4	8 400	35 500 *
52.0	54.4	72.0	7 200	33 600 *
54.0	52.8	70.5	6 100	31 800 *
56.0	51.0	68.9	5 100	30 100 *
58.0	49.3	67.1	4 200	28 600 *
60.0	47.5	65.3	3 300	27 100 *
62.0	45.6	63.4	2 500	25 500 *
64.0	43.7	61.3	1 700	24 000 *
66.0	41.7	59.1	1 000	22 600 *
68.0	39.6	56.7	300	21 200 *
70.0	37.4	54.2		19 800 *
72.0	35.1	51.4		18 400 *
74.0	32.6	48.3		17 000 *
76.0	30.0	44.9		15 800 *
78.0	27.1	41.2		14 500 *



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27 220 kg Carbody Counterweight
102 060 kg Hanging Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

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MAX-ER 225 On 2250 or M-250

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
91.4m (300 Ft.) BOOM				
20.0	79.0	92.6	58 300	91 000 *
22.0	77.7	92.2	50 000	87 300 *
24.0	76.4	91.7	43 400	83 700 *
26.0	75.1	91.2	37 900	80 000 *
28.0	73.8	90.6	33 200	73 400 *
30.0	72.5	90.0	29 200	67 600 *
32.0	71.2	89.3	25 800	62 600 *
34.0	69.8	88.6	22 800	58 100 *
36.0	68.5	87.8	20 200	54 100 *
38.0	67.1	87.0	17 800	50 600 *
40.0	65.8	86.1	15 800	47 400 *
42.0	64.4	85.1	13 900	44 400 *
44.0	63.0	84.1	12 200	41 700 *
46.0	61.5	83.0	10 700	39 300 *
48.0	60.1	81.9	9 300	37 100 *
50.0	58.6	80.7	8 000	35 000 *
52.0	57.1	79.4	6 800	33 100 *
54.0	55.6	78.0	5 700	31 400 *
56.0	54.1	76.6	4 700	29 700 *
58.0	52.5	75.1	3 800	28 100 *
60.0	50.9	73.5	2 900	26 600 *
62.0	49.3	71.7	2 100	25 100 *
64.0	47.6	69.9	1 300	23 600 *
66.0	45.8	68.0	600	22 200 *
68.0	44.0	66.0		20 900 *
70.0	42.2	63.8		19 600 *
72.0	40.3	61.5		18 400 *
74.0	38.3	59.0		17 300 *
76.0	36.2	56.3		16 100 *
78.0	33.9	53.4		14 900 *
80.0	31.6	50.2		13 700 *
82.0	29.1	46.7		12 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
97.5m (320 Ft.) BOOM				
20.0	79.7	98.8	58 600	82 100 *
22.0	78.5	98.4	50 200	78 700 *
24.0	77.3	98.0	43 500	75 300 *
26.0	76.1	97.5	37 900	72 000 *
28.0	74.8	97.0	33 200	68 800 *
30.0	73.6	96.4	29 100	65 700 *
32.0	72.4	95.7	25 700	62 200 *
34.0	71.1	95.1	22 600	57 700 *
36.0	69.9	94.3	20 000	53 800 *
38.0	68.6	93.6	17 700	50 200 *
40.0	67.4	92.7	15 500	47 000 *
42.0	66.1	91.8	13 600	44 000 *
44.0	64.8	90.9	11 900	41 400 *
46.0	63.5	89.9	10 400	39 000 *
48.0	62.1	88.9	9 000	36 700 *
50.0	60.8	87.8	7 700	34 700 *
52.0	59.4	86.6	6 500	32 800 *
54.0	58.1	85.3	5 400	31 000 *
56.0	56.7	84.0	4 400	29 200 *
58.0	55.2	82.7	3 400	27 500 *
60.0	53.8	81.2	2 600	26 000 *
62.0	52.3	79.7	1 700	24 500 *
64.0	50.8	78.1	1 000	23 100 *
66.0	49.2	76.3		21 800 *
68.0	47.7	74.5		20 600 *
70.0	46.0	72.6		19 300 *
72.0	44.4	70.6		17 500 *
74.0	42.6	68.5		15 800 *
76.0	40.9	66.2		14 100 *
78.0	39.0	63.7		12 400 *
80.0	37.1	61.1		10 700 *
82.0	35.1	58.3		9 100 *
84.0	32.9	55.3		7 500 *
86.0	30.7	52.0		5 900 *



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 27 220 kg Carbody Counterweight
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 Requirements

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On 2250
or M-250

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Minimum Boom Capacity to Swing Kilograms	Boom Capacity Kilograms
103.6m (340 Ft.) BOOM				
24.0	78.0	104.2	43 400	61 800 *
26.0	76.9	103.8	37 600	59 100 *
28.0	75.8	103.3	32 900	56 400 *
30.0	74.6	102.7	28 800	53 800 *
32.0	73.5	102.1	25 300	51 300 *
34.0	72.3	101.5	22 300	48 800 *
36.0	71.1	100.8	19 600	46 400 *
38.0	70.0	100.1	17 200	44 100 *
40.0	68.8	99.3	15 100	41 800 *
42.0	67.6	98.5	13 200	39 600 *
44.0	66.4	97.6	11 500	37 400 *
46.0	65.2	96.7	9 900	35 400 *
48.0	63.9	95.7	8 500	33 300 *
50.0	62.7	94.7	7 200	31 300 *
52.0	61.4	93.6	6 000	29 300 *
54.0	60.1	92.5	4 900	27 400 *
56.0	58.9	91.3	3 900	25 600 *
58.0	57.5	90.0	2 900	23 700 *
60.0	56.2	88.7	2 000	21 900 *
62.0	54.9	87.3	1 200	20 200 *
64.0	53.5	85.8	500	18 500 *
66.0	52.1	84.3		16 800 *
68.0	50.7	82.7		15 200 *
70.0	49.2	80.9		13 600 *
72.0	47.7	79.1		12 000 *
74.0	46.2	77.2		10 400 *
76.0	44.6	75.2		8 900 *
78.0	43.0	73.1		7 400 *
80.0	41.4	70.9		5 900 *