

Liftcrane Boom Capacities

**Boom No. 49A-44 With Heavy Lift Top
No Crane Counterweight
360 Degree Rating**

**2250 or M-250
WITH MAST - 24.4m**

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 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** and Wire Rope Specification chart **No. 7581-L**. 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 9 373m 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 and no crane counterweight.

Maximum Boom Lengths Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
48.8m	42.7m
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	161 300
6.5	82.5	33.2	156 100
7.0	81.6	33.1	132 400
7.5	80.6	33.0	115 000
8.0	79.6	32.9	101 300
8.5	78.7	32.8	90 400
9.0	77.7	32.6	81 400
10.0	75.8	32.4	67 600
11.0	73.8	32.1	57 400
12.0	71.8	31.7	49 600
13.0	69.8	31.3	43 500
14.0	67.8	30.9	38 500
15.0	65.7	30.5	34 400
16.0	63.6	30.0	30 800
18.0	59.2	28.8	25 400
20.0	54.7	27.4	21 200
22.0	49.8	25.8	17 800
24.0	44.5	23.8	15 200
26.0	38.7	21.4	13 000
28.0	31.9	18.4	11 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
7.0	83.0	39.2	133 300
7.5	82.2	39.2	116 000
8.0	81.4	39.1	102 200
8.5	80.6	39.0	91 200
9.0	79.8	38.9	82 100
10.0	78.2	38.7	68 200
11.0	76.6	38.4	57 900
12.0	75.0	38.1	50 000
13.0	73.3	37.8	43 900
14.0	71.7	37.5	38 800
15.0	70.0	37.1	34 600
16.0	68.3	36.7	31 100
18.0	64.8	35.8	25 500
20.0	61.3	34.7	21 300
22.0	57.6	33.5	18 000
24.0	53.7	32.0	15 200
26.0	49.7	30.4	13 000
28.0	45.3	28.4	11 200
30.0	40.6	26.2	9 600
32.0	35.3	23.5	8 200
34.0	29.2	20.1	7 000

42.7m (140 Ft.) BOOM			
7.9	82.7	45.3	102 600
8.0	82.6	45.3	100 900
8.5	82.0	45.2	89 800
9.0	81.3	45.1	80 600
10.0	79.9	44.9	66 700
11.0	78.5	44.7	56 400
12.0	77.2	44.5	48 600
13.0	75.8	44.2	42 300
14.0	74.4	43.9	37 300
15.0	73.0	43.6	33 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
16.0	71.5	43.2	29 600
18.0	68.7	42.5	24 000
20.0	65.7	41.6	19 800
22.0	62.7	40.6	16 500
24.0	59.6	39.4	13 800
26.0	56.4	38.1	11 600
28.0	53.1	36.6	9 700
30.0	49.6	35.0	8 100
32.0	45.9	33.1	6 800
34.0	41.9	30.9	5 500
48.8m (160 Ft.) BOOM			
8.5	82.9	51.3	89 600
9.0	82.4	51.3	81 300
10.0	81.2	51.1	67 000
11.0	80.0	50.9	56 700
12.0	78.8	50.7	48 800
13.0	77.6	50.5	42 500
14.0	76.4	50.2	37 500
15.0	75.2	50.0	33 300
16.0	73.9	49.7	29 700
18.0	71.5	49.0	24 100
20.0	68.9	48.2	19 900
22.0	66.4	47.4	16 500
24.0	63.8	46.4	13 800
26.0	61.1	45.3	11 600
28.0	58.3	44.1	9 700
30.0	55.5	42.7	8 100
32.0	52.6	41.2	6 800
34.0	49.5	39.5	5 500