



Liftcrane Boom Capacities

Boom No. 49A
No Crane Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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. 176112** or **No. 192708** and Wire Rope Specification chart **No. 7581-G**. 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-A** 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
37.2m	31.1m
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
25.0m (82 Ft.) BOOM			
5.5	83.0	27.8	233 500
6.0	81.8	27.7	183 400
6.5	80.7	27.6	151 100
7.0	79.5	27.5	127 900
7.5	78.3	27.4	110 400
8.0	77.1	27.2	96 700
8.5	76.0	27.1	85 800
9.0	74.8	26.9	76 800
10.0	72.3	26.6	63 000
11.0	69.9	26.2	52 800
12.0	67.4	25.8	45 100
13.0	64.9	25.3	38 900
14.0	62.3	24.8	33 900
15.0	59.6	24.2	29 800
16.0	56.8	23.5	26 300
18.0	51.0	22.0	20 800
20.0	44.6	20.0	16 500
22.0	37.4	17.6	13 200
24.0	28.5	14.3	10 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
31.1m (102 Ft.) BOOM			
6.4	82.7	33.8	156 700
6.5	82.5	33.8	151 400
7.0	81.6	33.7	127 700
7.5	80.6	33.6	110 100
8.0	79.7	33.5	96 500
8.5	78.8	33.4	85 400
9.0	77.8	33.3	76 400
10.0	75.9	33.0	62 500
11.0	74.0	32.7	52 400
12.0	72.0	32.4	44 500
13.0	70.1	32.0	38 400
14.0	68.1	31.6	33 300
15.0	66.1	31.1	29 200
16.0	64.0	30.6	25 700
18.0	59.8	29.5	20 200
20.0	55.3	28.2	15 900
22.0	50.6	26.6	12 600
24.0	45.5	24.7	9 900
26.0	40.0	22.4	7 700
28.0	33.6	19.6	5 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
37.2m (122 Ft.) BOOM			
7.0	83.0	39.9	128 200
7.5	82.2	39.8	110 800
8.0	81.4	39.7	97 000
8.5	80.6	39.6	85 800
9.0	79.8	39.5	76 700
10.0	78.3	39.3	62 700
11.0	76.7	39.0	52 400
12.0	75.1	38.8	44 400
13.0	73.5	38.5	38 200
14.0	71.9	38.1	33 100
15.0	70.2	37.8	28 900
16.0	68.5	37.4	25 300
18.0	65.2	36.5	19 700
20.0	61.7	35.4	15 500
22.0	58.1	34.2	12 100
24.0	54.3	32.8	9 400
26.0	50.3	31.2	7 200
28.0	46.1	29.3	5 300