

Liftcrane Boom Capacities

Boom No. 79
94 890 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

2250
With Mast - 39.6m

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 12 560 kg or 25 130 kg with two part whip line. When luffing hoist for 22 mm wire rope is used, capacity is 9 070 kg with single part whip line or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacities.

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. 194041**, Wire Rope Specification chart **No. 8189-A** and Counterweight Arrangement chart **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. 9208-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 9 373 mm crawlers, 1 219 mm treads, 8 534 mm retractable gantry, 39.6m mast, 10 part boom hoist reeving, boom support straps, 94 890 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

Maximum Boom Lengths Lifted Unassisted		
Over End of Blocked Crawlers	Over End of Unblocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length	Boom Length
73.2m	67.1m	67.1m
Load block, hook and weight ball on ground at start.		

Boom Catwalks Deduct
Deduct 250 kg from capacities when boom catwalks are attached.

Liftcrane Boom Capacities

2250

Boom No. 79
94 890 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

With Mast - 39.6m

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) Boom			
7.9	82.3	39.1	204 800 *
8.0	82.2	39.1	203 100 *
9.0	80.6	38.9	181 200 *
10.0	79.0	38.7	163 300 *
11.0	77.4	38.5	148 400 *
12.0	75.7	38.2	135 700 *
14.0	72.5	37.5	114 000
16.0	69.1	36.7	93 000
18.0	65.6	35.8	78 200
20.0	62.1	34.7	66 900
22.0	58.4	33.5	58 100
24.0	54.5	32.0	50 900
26.0	50.4	30.4	45 100
28.0	46.1	28.4	40 100
30.0	41.3	26.2	35 900
32.0	36.1	23.4	32 300
34.0	29.9	20.1	29 100
36.0	22.2	15.5	26 200
42.7m (140 Ft.) Boom			
8.5	82.6	45.2	189 500 *
9.0	82.0	45.1	180 100 *
10.0	80.6	45.0	162 100 *
11.0	79.2	44.7	147 200 *
12.0	77.8	44.5	134 500 *
14.0	75.1	43.9	113 600
16.0	72.2	43.3	92 500
18.0	69.3	42.5	77 700
20.0	66.4	41.6	66 400
22.0	63.4	40.6	57 500
24.0	60.3	39.4	50 400
26.0	57.1	38.1	44 500
28.0	53.7	36.6	39 600
30.0	50.2	35.0	35 400
32.0	46.5	33.0	31 800
34.0	42.6	30.9	28 600
36.0	38.2	28.3	25 800
38.0	33.4	25.4	23 300
40.0	27.8	21.7	21 100
42.0	20.7	16.8	19 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) Boom			
9.1	82.8	51.3	175 400 *
10.0	81.8	51.2	160 400 *
11.0	80.6	51.0	145 500 *
12.0	79.4	50.8	132 800 *
14.0	77.0	50.3	112 100
16.0	74.5	49.7	92 000
18.0	72.0	49.0	77 000
20.0	69.5	48.3	65 700
22.0	67.0	47.4	56 800
24.0	64.4	46.4	49 600
26.0	61.7	45.3	43 700
28.0	58.9	44.1	38 800
30.0	56.1	42.8	34 600
32.0	53.1	41.2	30 900
34.0	50.1	39.6	27 800
36.0	46.8	37.7	25 000
38.0	43.4	35.6	22 500
40.0	39.8	33.2	20 300
42.0	35.8	30.4	18 400
44.0	31.3	27.2	16 500
46.0	26.1	23.3	14 900
48.0	19.6	18.1	13 400
54.9m (180 Ft.) Boom			
9.8	83.0	57.4	163 300 *
10.0	82.7	57.3	159 300 *
11.0	81.6	57.2	144 400 *
12.0	80.6	57.0	131 700 *
14.0	78.4	56.6	111 100
16.0	76.3	56.1	91 500
18.0	74.1	55.5	76 500
20.0	71.9	54.8	65 200
22.0	69.7	54.0	56 300
24.0	67.4	53.2	49 100
26.0	65.1	52.2	43 200
28.0	62.7	51.2	38 200
30.0	60.3	50.0	34 000
32.0	57.9	48.8	30 400
34.0	55.3	47.4	27 200
36.0	52.7	45.8	24 500
38.0	49.9	44.1	22 000
40.0	47.1	42.3	19 800
42.0	44.1	40.2	17 900
44.0	40.9	37.9	16 100
46.0	37.5	35.3	14 400
48.0	33.8	32.4	13 000
50.0	29.6	28.9	11 600
52.0	24.8	24.8	10 300
54.0	18.7	19.3	9 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) Boom			
11.0	82.5	63.3	143 100 *
12.0	81.5	63.2	130 100 *
14.0	79.6	62.8	109 600
16.0	77.7	62.3	91 000
18.0	75.8	61.8	75 700
20.0	73.8	61.2	64 400
22.0	71.8	60.6	55 400
24.0	69.8	59.8	48 200
26.0	67.8	59.0	42 300
28.0	65.7	58.1	37 300
30.0	63.6	57.0	33 100
32.0	61.4	55.9	29 500
34.0	59.3	54.7	26 300
36.0	57.0	53.4	23 500
38.0	54.7	52.0	21 000
40.0	52.3	50.4	18 800
42.0	49.9	48.7	16 900
44.0	47.3	46.9	15 100
46.0	44.6	44.9	13 400
48.0	41.8	42.6	12 000
50.0	38.8	40.1	10 600
52.0	35.6	37.4	9 400
54.0	32.1	34.2	8 200
56.0	28.2	30.6	7 100
58.0	23.6	26.2	6 100

Liftcrane Boom Capacities

Boom No. 79
94 890 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

2250
With Mast - 39.6m

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67.1m (220 Ft.) Boom			
11.6	82.7	69.4	134 300 *
12.0	82.3	69.4	129 400 *
14.0	80.6	69.0	108 900
16.0	78.8	68.6	90 900
18.0	77.1	68.1	75 500
20.0	75.3	67.6	64 100
22.0	73.5	67.0	55 100
24.0	71.7	66.3	47 900
26.0	69.9	65.6	42 000
28.0	68.1	64.7	37 000
30.0	66.2	63.8	32 800
32.0	64.3	62.9	29 100
34.0	62.3	61.8	25 900
36.0	60.4	60.7	23 100
38.0	58.4	59.4	20 700
40.0	56.3	58.1	18 500
42.0	54.2	56.6	16 500
44.0	52.0	55.0	14 700
46.0	49.8	53.3	13 100
48.0	47.4	51.5	11 600
50.0	45.0	49.5	10 200
52.0	42.5	47.3	9 000
54.0	39.8	44.9	7 800
56.0	37.0	42.3	6 700
58.0	34.0	39.4	5 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73.2m (240 Ft.) Boom			
12.2	82.8	75.5	125 500 *
14.0	81.4	75.2	107 300
16.0	79.8	74.8	90 300
18.0	78.2	74.4	74 700
20.0	76.6	73.9	63 300
22.0	74.9	73.4	54 200
24.0	73.3	72.7	47 000
26.0	71.6	72.1	41 000
28.0	70.0	71.3	36 000
30.0	68.3	70.5	31 800
32.0	66.6	69.6	28 100
34.0	64.8	68.7	24 900
36.0	63.1	67.7	22 100
38.0	61.3	66.6	19 700
40.0	59.5	65.4	17 400
42.0	57.6	64.1	15 500
44.0	55.7	62.7	13 600
46.0	53.8	61.2	12 000
48.0	51.8	59.6	10 600
50.0	49.7	57.9	9 200
52.0	47.6	56.1	7 900
54.0	45.4	54.1	6 800
56.0	43.1	52.0	5 700