

Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
28 710 kg Crane Counterweight
6 350 kg Crawler Frame Counterweight
6 807 mm Crawlers Extended
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

Meets
ANSI B30.5
Requirements

222 SERIES B 222EX SERIES B

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 (*).

Upper boom point capacity for liftcrane service with single part whip line is 9 070 kg. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

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 up and front tumbler properly blocked so that centerline of idler tumbler becomes tipping fulcrum. Travel drive must be to rear of machine. Swing limited to that sector shown on Operating Range Diagram **No. 9184-A**. Refer to boom rigging **No. 193744** or **No. 910557** and Wire Rope Specification chart **No. 9071-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 6 807 mm extendible crawlers, 914 mm treads, 4 724 mm retractable gantry, 10 part boom hoist reeving, two 32 mm boom pendants, 1st crane counterweight = 12 930 kg, 2nd crane counterweight = 4 530 kg, 3rd crane counterweight = 11 250 kg and four 1 590 kg crawler frame counterweights.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 10
9.1m	770 kg
12.2m	950 kg
15.2m	1 170 kg
18.3m	1 400 kg

Maximum Boom and Jib Lengths Lifted Unassisted Over Front of Blocked Crawlers

Boom Length	Jib No. 10
61.0m	—
57.9m	18.3m
Load block, hook and weight ball on ground at start.	

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

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
12.2m (40 Ft.) Boom			
3.0	80.7	13.7	90 700 *
3.5	78.5	13.6	87 400 *
4.0	76.1	13.5	76 800 *
4.5	73.7	13.3	68 200 *
5.0	71.2	13.2	61 400 *
5.5	68.7	13.0	54 900 *
6.0	66.1	12.8	49 300 *
7.0	60.9	12.2	40 500 *
8.0	55.3	11.6	33 700 *
9.0	49.3	10.8	28 400 *
10.0	42.7	9.9	24 300 *
11.0	35.1	8.6	20 200 *
12.0	25.7	6.8	16 600 *
15.2m (50 Ft.) Boom			
3.4	81.4	16.7	89 400 *
3.5	80.8	16.7	86 800 *
4.0	78.9	16.6	76 700 *
4.5	77.0	16.5	68 200 *
5.0	75.1	16.4	60 800 *
5.5	73.1	16.2	53 800 *
6.0	71.1	16.0	48 700 *
7.0	67.1	15.6	40 800 *
8.0	62.9	15.2	33 700 *
9.0	58.6	14.6	29 000 *
10.0	54.1	13.9	25 300 *
11.0	49.2	13.1	22 400 *
12.0	44.0	12.2	20 000 *
14.0	31.6	9.6	15 300 *
18.3m (60 Ft.) Boom			
3.7	81.9	19.7	78 800 *
4.0	80.8	19.7	76 500 *
4.5	79.2	19.6	66 000 *
5.0	77.6	19.5	58 300 *
5.5	76.0	19.4	52 300 *
6.0	74.4	19.2	47 000 *
7.0	71.1	18.9	39 600 *
8.0	67.7	18.5	34 200 *
9.0	64.3	18.1	29 400 *
10.0	60.7	17.6	25 600 *
11.0	57.1	17.0	22 600 *
12.0	53.2	16.2	20 200 *
14.0	44.9	14.5	16 500 *
16.0	35.1	12.1	13 500 *
18.0	21.7	8.3	10 200 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) Boom			
4.3	81.4	22.7	67 900 *
4.5	80.8	22.7	64 000 *
5.0	79.4	22.6	56 100 *
5.5	78.0	22.5	50 300 *
6.0	76.6	22.4	45 500 *
7.0	73.9	22.1	38 200 *
8.0	71.0	21.8	33 200 *
9.0	68.2	21.4	29 300 *
10.0	65.2	21.0	26 000 *
11.0	62.2	20.5	23 000 *
12.0	59.2	19.9	20 500 *
14.0	52.6	18.5	16 800 *
16.0	45.5	16.8	14 000 *
18.0	37.3	14.5	11 900 *
20.0	27.2	11.3	9 600 *
24.4m (80 Ft.) Boom			
4.6	81.8	25.8	60 500 *
5.0	80.7	25.7	54 100 *
5.5	79.5	25.6	48 500 *
6.0	78.3	25.5	44 000 *
7.0	75.9	25.3	37 000 *
8.0	73.5	25.0	32 000 *
9.0	71.0	24.7	27 900 *
10.0	68.5	24.3	25 500 *
11.0	66.0	23.9	22 800 *
12.0	63.4	23.4	20 700 *
14.0	57.9	22.3	16 900 *
16.0	52.2	20.9	14 100 *
18.0	45.9	19.1	12 000 *
20.0	38.9	16.9	10 400 *
22.0	30.6	14.0	8 800 *
24.0	19.4	9.7	7 000 *
27.4m (90 Ft.) Boom			
5.2	81.4	28.8	50 600 *
5.5	80.7	28.7	47 000 *
6.0	79.7	28.6	42 900 *
7.0	77.5	28.4	35 800 *
8.0	75.4	28.2	31 000 *
9.0	73.2	27.9	27 200 *
10.0	71.0	27.6	24 800 *
11.0	68.8	27.2	22 300 *
12.0	66.5	26.8	20 200 *
14.0	61.9	25.8	16 900 *
16.0	57.0	24.6	14 200 *
18.0	51.8	23.2	12 100 *
20.0	46.3	21.4	10 400 *
22.0	40.2	19.3	9 100 *
24.0	33.1	16.6	7 900 *
26.0	24.4	12.9	6 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) Boom			
5.5	81.7	31.8	45 800 *
6.0	80.7	31.7	41 700 *
7.0	78.8	31.5	34 700 *
8.0	76.9	31.3	30 100 *
9.0	74.9	31.1	26 600 *
10.0	73.0	30.8	23 700 *
11.0	71.0	30.4	21 300 *
12.0	69.0	30.1	19 900 *
14.0	64.9	29.2	16 700 *
16.0	60.7	28.2	14 300 *
18.0	56.2	26.9	12 200 *
20.0	51.6	25.5	10 500 *
22.0	46.6	23.7	9 100 *
24.0	41.1	21.6	8 000 *
26.0	35.0	19.0	7 100 *
28.0	27.7	15.7	6 100 *
30.0	17.9	10.9	4 800 *
33.5m (110 Ft.) Boom			
5.8	81.9	34.8	42 400 *
6.0	81.6	34.8	40 600 *
7.0	79.8	34.6	34 000 *
8.0	78.1	34.4	29 200 *
9.0	76.3	34.2	25 800 *
10.0	74.6	34.0	23 000 *
11.0	72.8	33.7	20 600 *
12.0	71.0	33.3	18 700 *
14.0	67.3	32.5	16 300 *
16.0	63.5	31.6	13 900 *
18.0	59.7	30.5	12 100 *
20.0	55.6	29.3	10 500 *
22.0	51.3	27.8	9 100 *
24.0	46.8	26.0	8 000 *
26.0	41.9	24.0	7 100 *
28.0	36.5	21.5	6 300 *
30.0	30.2	18.4	5 500 *
32.0	22.4	14.4	4 500 *

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) Boom			
6.7	81.1	37.8	35 100 *
7.0	80.7	37.7	33 400 *
8.0	79.1	37.5	28 400 *
9.0	77.5	37.3	25 200 *
10.0	75.9	37.1	22 300 *
11.0	74.3	36.8	19 900 *
12.0	72.6	36.5	18 100 *
14.0	69.3	35.8	15 900 *
16.0	65.9	35.0	13 600 *
18.0	62.4	34.0	11 900 *
20.0	58.8	32.9	10 400 *
22.0	55.1	31.6	9 100 *
24.0	51.1	30.1	7 900 *
26.0	47.0	28.3	7 000 *
28.0	42.5	26.3	6 200 *
30.0	37.6	23.9	5 500 *
32.0	32.1	21.0	4 900 *
34.0	25.6	17.4	4 100 *
36.0	16.9	12.2	3 300 *
39.6m (130 Ft.) Boom			
6.7	81.8	40.9	34 300 *
7.0	81.4	40.8	32 600 *
8.0	79.9	40.7	27 700 *
9.0	78.5	40.5	24 600 *
10.0	77.0	40.2	21 700 *
11.0	75.5	40.0	19 400 *
12.0	74.0	39.7	17 800 *
14.0	71.0	39.1	15 100 *
16.0	67.9	38.3	13 300 *
18.0	64.7	37.4	11 500 *
20.0	61.5	36.4	10 200 *
22.0	58.1	35.2	9 000 *
24.0	54.6	33.9	7 900 *
26.0	51.0	32.4	6 900 *
28.0	47.1	30.6	6 200 *
30.0	43.0	28.6	5 400 *
32.0	38.6	26.3	4 800 *
34.0	33.7	23.5	4 300 *
36.0	28.0	20.2	3 700 *
38.0	21.0	15.7	3 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) Boom			
7.3	81.6	43.9	29 600 *
8.0	80.7	43.7	27 100 *
9.0	79.3	43.6	24 000 *
10.0	77.9	43.4	21 100 *
11.0	76.5	43.1	18 900 *
12.0	75.2	42.9	17 300 *
14.0	72.4	42.3	14 600 *
16.0	69.5	41.6	12 400 *
18.0	66.6	40.8	11 100 *
20.0	63.7	39.8	9 900 *
22.0	60.6	38.8	8 800 *
24.0	57.5	37.6	7 800 *
26.0	54.2	36.2	6 900 *
28.0	50.8	34.7	6 100 *
30.0	47.3	32.9	5 400 *
32.0	43.5	31.0	4 800 *
34.0	39.4	28.7	4 300 *
36.0	35.0	26.0	3 800 *
38.0	29.9	22.9	3 300 *
40.0	24.0	18.9	2 700 *
42.0	16.1	13.4	2 100 *
45.7m (150 Ft.) Boom			
7.9	81.4	46.8	25 200 *
8.0	81.3	46.8	25 200 *
9.0	80.0	46.7	23 600 *
10.0	78.7	46.5	20 600 *
11.0	77.5	46.3	18 400 *
12.0	76.2	46.0	17 100 *
14.0	73.6	45.5	14 100 *
16.0	70.9	44.8	12 000 *
18.0	68.3	44.1	10 400 *
20.0	65.5	43.2	9 100 *
22.0	62.7	42.2	8 700 *
24.0	59.9	41.2	7 700 *
26.0	56.9	39.9	6 900 *
28.0	53.9	38.5	6 100 *
30.0	50.7	37.0	5 400 *
32.0	47.4	35.2	4 800 *
34.0	43.9	33.3	4 200 *
36.0	40.1	31.0	3 800 *
38.0	36.0	28.5	3 300 *
40.0	31.5	25.5	2 900 *
42.0	26.3	21.8	2 400 *
44.0	19.9	17.1	1 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) Boom			
7.9	81.9	49.9	21 700 *
8.0	81.8	49.9	21 700 *
9.0	80.6	49.8	21 200 *
10.0	79.5	49.6	20 200 *
11.0	78.3	49.4	17 900 *
12.0	77.1	49.2	16 700 *
14.0	74.6	48.7	13 700 *
16.0	72.2	48.0	11 600 *
18.0	69.7	47.3	10 000 *
20.0	67.2	46.6	8 700 *
22.0	64.6	45.7	8 400 *
24.0	61.9	44.6	7 400 *
26.0	59.2	43.5	6 600 *
28.0	56.5	42.2	5 900 *
30.0	53.6	40.8	5 300 *
32.0	50.6	39.3	4 500 *
34.0	47.5	37.5	4 000 *
36.0	44.2	35.6	3 600 *
38.0	40.7	33.4	3 100 *
40.0	37.0	30.9	2 800 *
42.0	32.8	28.0	2 400 *
44.0	28.2	24.6	2 000 *
46.0	22.7	20.4	1 600 *
51.8m (170 Ft.) Boom			
8.5	81.7	52.9	18 300 *
9.0	81.2	52.8	18 000 *
10.0	80.1	52.7	17 700 *
11.0	79.0	52.5	17 300 *
12.0	77.8	52.3	16 200 *
14.0	75.6	51.8	13 300 *
16.0	73.3	51.2	11 200 *
18.0	70.9	50.6	9 600 *
20.0	68.6	49.8	8 700 *
22.0	66.2	49.0	7 800 *
24.0	63.7	48.1	6 900 *
26.0	61.2	47.0	6 100 *
28.0	58.7	45.9	5 400 *
30.0	56.0	44.6	4 800 *
32.0	53.3	43.2	4 300 *
34.0	50.5	41.6	3 800 *
36.0	47.6	39.8	3 400 *
38.0	44.5	37.9	3 100 *
40.0	41.2	35.7	2 700 *
42.0	37.8	33.3	2 300 *
44.0	34.0	30.5	2 000 *
46.0	29.8	27.3	1 700 *



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) Boom			
9.1	81.5	55.9	15 600 *
10.0	80.6	55.8	15 200 *
11.0	79.6	55.6	14 900 *
12.0	78.5	55.4	14 500 *
14.0	76.4	55.0	13 000 *
16.0	74.2	54.4	10 900 *
18.0	72.0	53.8	9 300 *
20.0	69.8	53.1	8 600 *
22.0	67.6	52.3	7 500 *
24.0	65.3	51.5	6 600 *
26.0	63.0	50.5	5 800 *
28.0	60.6	49.4	5 200 *
30.0	58.2	48.2	4 600 *
32.0	55.7	46.9	4 100 *
34.0	53.1	45.5	3 700 *
36.0	50.4	43.9	3 200 *
38.0	47.7	42.1	2 900 *
40.0	44.8	40.2	2 500 *
42.0	41.7	38.1	2 200 *
44.0	38.5	35.7	1 900 *
46.0	34.9	33.0	1 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) Boom			
9.1	82.0	59.0	13 500 *
10.0	81.1	58.9	13 100 *
11.0	80.1	58.7	12 800 *
12.0	79.1	58.5	12 500 *
14.0	77.1	58.1	11 700 *
16.0	75.1	57.6	10 700 *
18.0	73.0	57.0	9 000 *
20.0	70.9	56.3	8 300 *
22.0	68.8	55.6	7 200 *
24.0	66.7	54.8	6 300 *
26.0	64.5	53.9	5 500 *
28.0	62.3	52.9	4 900 *
30.0	60.0	51.8	4 400 *
32.0	57.7	50.5	3 900 *
34.0	55.3	49.2	3 400 *
36.0	52.9	47.8	3 000 *
38.0	50.4	46.2	2 700 *
40.0	47.7	44.4	2 400 *
42.0	45.0	42.5	2 000 *
44.0	42.1	40.4	1 800 *
46.0	39.1	38.1	1 500 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) Boom			
9.8	81.8	62.0	11 200 *
10.0	81.6	62.0	11 200 *
11.0	80.6	61.8	10 900 *
12.0	79.7	61.6	10 700 *
14.0	77.8	61.2	10 000 *
16.0	75.8	60.7	9 500 *
18.0	73.9	60.2	8 900 *
20.0	71.9	59.6	7 900 *
22.0	69.9	58.9	6 800 *
24.0	67.9	58.1	6 000 *
26.0	65.9	57.2	5 200 *
28.0	63.8	56.3	4 600 *
30.0	61.7	55.3	4 100 *
32.0	59.5	54.1	3 600 *
34.0	57.3	52.9	3 200 *
36.0	55.0	51.5	2 800 *
38.0	52.7	50.1	2 500 *
40.0	50.3	48.5	2 100 *
42.0	47.8	46.7	1 800 *
44.0	45.2	44.8	1 600 *