

Liftcrane Boom Capacities

222 SERIES B 222EX SERIES B

Boom No. 222 With Open Throat Top
28 710 kg Crane Counterweight
6 350 kg Crawler Frame Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

LIFTING CAPACITIES: 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 (*). Retracted crawler capacities are not shown for boom positions which, without load, provide less than required ANSI B30.5 backward stability.

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. 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, 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 and boom within boom angle

range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 9143-A**.

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 End of Crawlers		Over Side of Extended Crawlers		Over Side of Retracted Crawlers	
Boom Length	Jib No. 10	Boom Length	Jib No. 10	Boom Length	Jib No. 10
61.0m	—	61.0m	—	57.9m	—
57.9m	18.3m	57.9m	18.3m	54.9m	—
				51.8m	15.2m
				48.8m	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.



Liftcrane Boom Capacities

222 SERIES B 222EX SERIES B

Boom No. 222 With Open Throat Top
28 710 kg Crane Counterweight
6 350 kg Crawler Frame Counterweight
360 Degree Rating

Meets ANSI B30.5 Requirements

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended 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	12.3		40 500 *
8.0	55.3	11.6		33 600
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	15.7		40 600
8.0	62.9	15.2		33 500
9.0	58.6	14.6		28 400
10.0	54.1	13.9		24 600
11.0	49.2	13.1		21 700
12.0	44.0	12.2		19 300
14.0	31.6	9.6		15 400 *
18.3m (60 Ft.) Boom				
3.7	81.9	19.8		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		33 400
9.0	64.3	18.1		28 300
10.0	60.7	17.6		24 500
11.0	57.1	17.0		21 600
12.0	53.2	16.2		19 200
14.0	44.9	14.5		15 800
16.0	35.1	12.1		13 200
18.0	21.7	8.3		10 200 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended 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		28 300
10.0	65.2	21.0		24 500
11.0	62.2	20.5		21 500
12.0	59.2	19.9		19 200
14.0	52.6	18.6		15 700
16.0	45.5	16.8		13 200
18.0	37.3	14.5	8 400	11 300
20.0	27.2	11.3	7 300	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		24 400
11.0	66.0	23.9		21 400
12.0	63.4	23.4		19 100
14.0	57.9	22.3		15 600
16.0	52.2	20.9	9 700	13 100
18.0	45.9	19.1	8 200	11 200
20.0	38.9	16.9	7 200	9 800
22.0	30.6	14.0	6 300	8 600
24.0	19.4	9.7	5 700	7 000 *



Liftcrane Boom Capacities

222 SERIES B 222EX SERIES B

Boom No. 222 With Open Throat Top
28 710 kg Crane Counterweight
6 350 kg Crawler Frame Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
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		24 400
11.0	68.8	27.2		21 300
12.0	66.5	26.8		19 000
14.0	61.9	25.8	11 400	15 500
16.0	57.0	24.6	9 500	13 000
18.0	51.8	23.2	8 200	11 200
20.0	46.3	21.4	7 100	9 700
22.0	40.2	19.3	6 300	8 600
24.0	33.1	16.6	5 600	7 600
26.0	24.4	12.9	5 000	6 600 *
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		21 200
12.0	69.0	30.1		18 900
14.0	64.9	29.2	11 300	15 400
16.0	60.7	28.2	9 500	13 000
18.0	56.2	26.9	8 100	11 100
20.0	51.6	25.5	7 000	9 600
22.0	46.6	23.7	6 200	8 500
24.0	41.1	21.6	5 500	7 600
26.0	35.0	19.1	4 900	6 800
28.0	27.7	15.7	4 400	6 000
30.0	17.9	10.9	4 000	4 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
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	13 600	18 700 *
14.0	67.3	32.6	11 200	15 400
16.0	63.5	31.6	9 400	12 900
18.0	59.7	30.5	8 000	11 000
20.0	55.6	29.3	6 900	9 500
22.0	51.3	27.8	6 100	8 400
24.0	46.8	26.0	5 400	7 500
26.0	41.9	24.0	4 800	6 700
28.0	36.5	21.5	4 300	6 000
30.0	30.2	18.4	3 900	5 400
32.0	22.4	14.4	3 500	4 500 *
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	37.6		28 400 *
9.0	77.5	37.3		25 200 *
10.0	75.9	37.1		22 300 *
11.0	74.3	36.8	15 100	19 900 *
12.0	72.6	36.5	13 500	18 100 *
14.0	69.3	35.8	11 100	15 300
16.0	65.9	35.0	9 300	12 800
18.0	62.4	34.0	7 900	10 900
20.0	58.8	32.9	6 800	9 400
22.0	55.1	31.6	6 000	8 400
24.0	51.1	30.1	5 300	7 400
26.0	47.0	28.3	4 700	6 600
28.0	42.5	26.3	4 200	5 900
30.0	37.6	23.9	3 800	5 400
32.0	32.1	21.0	3 400	4 800
34.0	25.6	17.4	3 100	4 100 *
36.0	16.9	12.2	2 800	3 300 *



Liftcrane Boom Capacities

222 SERIES B 222EX SERIES B

Boom No. 222 With Open Throat Top
28 710 kg Crane Counterweight
6 350 kg Crawler Frame Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
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	17 000	21 700 *
11.0	75.5	40.0	15 000	19 400 *
12.0	74.0	39.7	13 400	17 800 *
14.0	71.0	39.1	11 000	15 000
16.0	67.9	38.3	9 200	12 700
18.0	64.7	37.4	7 800	10 800
20.0	61.5	36.4	6 700	9 400
22.0	58.1	35.2	6 000	8 300
24.0	54.6	33.9	5 200	7 300
26.0	51.0	32.4	4 600	6 500
28.0	47.1	30.6	4 100	5 800
30.0	43.0	28.6	3 700	5 300
32.0	38.6	26.3	3 300	4 800
34.0	33.7	23.5	3 000	4 300 *
36.0	28.0	20.2	2 700	3 700 *
38.0	21.0	15.8	2 400	3 100 *
42.7m (140 Ft.) Boom				
7.3	81.6	43.9		29 600 *
8.0	80.7	43.8		27 100 *
9.0	79.3	43.6		24 000 *
10.0	77.9	43.4	16 900	21 100 *
11.0	76.5	43.1	14 900	18 900 *
12.0	75.2	42.9	13 300	17 300 *
14.0	72.4	42.3	10 900	14 600 *
16.0	69.5	41.6	9 100	12 400 *
18.0	66.6	40.8	7 700	10 700
20.0	63.7	39.9	6 600	9 300
22.0	60.6	38.8	5 900	8 200
24.0	57.5	37.6	5 100	7 200
26.0	54.2	36.2	4 600	6 400
28.0	50.8	34.7	4 000	5 800
30.0	47.3	32.9	3 600	5 200
32.0	43.5	31.0	3 200	4 700
34.0	39.4	28.7	2 900	4 300
36.0	35.0	26.0	2 600	3 800 *
38.0	29.9	22.9	2 300	3 300 *
40.0	24.0	18.9	2 100	2 700 *
42.0	16.1	13.4	1 900	2 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
45.7m (150 Ft.) Boom				
7.9	81.4	46.9		25 200 *
8.0	81.3	46.8		25 200 *
9.0	80.0	46.7	19 400	23 600 *
10.0	78.7	46.5	16 800	20 600 *
11.0	77.5	46.3	14 800	18 400 *
12.0	76.2	46.0	13 200	17 100 *
14.0	73.6	45.5	10 800	14 100 *
16.0	70.9	44.8	9 000	12 000 *
18.0	68.3	44.1	7 600	10 400 *
20.0	65.5	43.2	6 500	9 100
22.0	62.7	42.3	5 800	8 100
24.0	59.9	41.2	5 100	7 100
26.0	56.9	39.9	4 500	6 400
28.0	53.9	38.5	3 900	5 700
30.0	50.7	37.0	3 500	5 100
32.0	47.4	35.2	3 100	4 600
34.0	43.9	33.3	2 800	4 200
36.0	40.1	31.0	2 500	3 800 *
38.0	36.0	28.5	2 200	3 300 *
40.0	31.5	25.5	2 000	2 900 *
42.0	26.3	21.8	1 800	2 400 *
44.0	19.9	17.1	1 600	1 900 *
48.8m (160 Ft.) Boom				
7.9	81.9	49.9	21 700 *	21 700 *
8.0	81.8	49.9	21 600	21 700 *
9.0	80.6	49.8	19 400	21 200 *
10.0	79.5	49.6	16 700	20 200 *
11.0	78.3	49.4	14 700	17 900 *
12.0	77.1	49.2	13 200	16 700 *
14.0	74.6	48.7	10 700	13 700 *
16.0	72.2	48.1	8 800	11 600 *
18.0	69.7	47.4	7 500	10 000 *
20.0	67.2	46.6	6 400	8 700
22.0	64.6	45.7	5 700	8 000
24.0	61.9	44.6	4 900	7 100
26.0	59.2	43.5	4 300	6 300
28.0	56.5	42.3	3 900	5 600
30.0	53.6	40.8	3 400	5 000
32.0	50.6	39.3	3 000	4 500
34.0	47.5	37.5	2 700	4 000 *
36.0	44.2	35.6	2 400	3 600 *
38.0	40.7	33.4	2 100	3 100 *
40.0	37.0	30.9	1 900	2 800 *
42.0	32.8	28.0	1 700	2 400 *
44.0	28.2	24.6	1 500	2 000 *
46.0	22.7	20.4		1 600 *



Liftcrane Boom Capacities

222 SERIES B 222EX SERIES B

Boom No. 222 With Open Throat Top
28 710 kg Crane Counterweight
6 350 kg Crawler Frame Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
51.8m (170 Ft.) Boom				
8.5	81.7	52.9	18 300 *	18 300 *
9.0	81.2	52.9	18 000 *	18 000 *
10.0	80.1	52.7	16 900	17 700 *
11.0	79.0	52.5	14 700	17 300 *
12.0	77.8	52.3	13 100	16 200 *
14.0	75.6	51.8	10 600	13 300 *
16.0	73.3	51.3	8 800	11 200 *
18.0	70.9	50.6	7 400	9 600 *
20.0	68.6	49.9	6 400	8 700 *
22.0	66.2	49.0	5 500	7 800 *
24.0	63.7	48.1	4 800	6 900 *
26.0	61.2	47.0	4 200	6 100 *
28.0	58.7	45.9	3 700	5 400 *
30.0	56.0	44.6	3 300	4 800 *
32.0	53.3	43.2	2 900	4 300 *
34.0	50.5	41.6	2 600	3 800 *
36.0	47.6	39.8	2 300	3 400 *
38.0	44.5	37.9	2 000	3 100 *
40.0	41.2	35.7	1 800	2 700 *
42.0	37.8	33.3	1 600	2 300 *
44.0	34.0	30.5	1 400	2 000 *
46.0	29.8	27.3		1 700 *
54.9m (180 Ft.) Boom				
9.1	81.5	55.9	15 600 *	15 600 *
10.0	80.6	55.8	15 200 *	15 200 *
11.0	79.6	55.6	14 700	14 900 *
12.0	78.5	55.4	13 000	14 500 *
14.0	76.4	55.0	10 500	13 000 *
16.0	74.2	54.4	8 700	10 900 *
18.0	72.0	53.8	7 300	9 300 *
20.0	69.8	53.1	6 300	8 600 *
22.0	67.6	52.3	5 500	7 500 *
24.0	65.3	51.5	4 800	6 600 *
26.0	63.0	50.5	4 100	5 800 *
28.0	60.6	49.4	3 700	5 200 *
30.0	58.2	48.2	3 200	4 600 *
32.0	55.7	46.9	2 900	4 100 *
34.0	53.1	45.5	2 500	3 700 *
36.0	50.4	43.9	2 200	3 200 *
38.0	47.7	42.1	2 000	2 900 *
40.0	44.8	40.2	1 700	2 500 *
42.0	41.7	38.1	1 500	2 200 *
44.0	38.5	35.7	1 300	1 900 *
46.0	34.9	33.0		1 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
57.9m (190 Ft.) Boom				
9.1	82.0	59.0	13 500 *	13 500 *
10.0	81.1	58.9	13 100 *	13 100 *
11.0	80.1	58.7	12 800 *	12 800 *
12.0	79.1	58.5	12 500 *	12 500 *
14.0	77.1	58.1	10 400	11 700 *
16.0	75.1	57.6	8 600	10 700 *
18.0	73.0	57.0	7 200	9 000 *
20.0	70.9	56.4	6 300	8 300 *
22.0	68.8	55.6	5 300	7 200 *
24.0	66.7	54.8	4 600	6 300 *
26.0	64.5	53.9	4 100	5 500 *
28.0	62.3	52.9	3 500	4 900 *
30.0	60.0	51.8	3 100	4 400 *
32.0	57.7	50.6	2 700	3 900 *
34.0	55.3	49.2	2 400	3 400 *
36.0	52.9	47.8	2 100	3 000 *
38.0	50.4	46.2	1 900	2 700 *
40.0	47.7	44.4	1 600	2 400 *
42.0	45.0	42.5	1 400	2 000 *
44.0	42.1	40.4		1 800 *
46.0	39.1	38.1		1 500 *
61.0m (200 Ft.) Boom				
9.8	81.8	62.0	11 200 *	11 200 *
10.0	81.6	62.0	11 200 *	11 200 *
11.0	80.6	61.8	10 900 *	10 900 *
12.0	79.7	61.6	10 700 *	10 700 *
14.0	77.8	61.2	9 900	10 000 *
16.0	75.8	60.7	8 500	9 500 *
18.0	73.9	60.2	7 100	8 900 *
20.0	71.9	59.6	6 100	7 900 *
22.0	69.9	58.9	5 300	6 800 *
24.0	67.9	58.1	4 600	6 000 *
26.0	65.9	57.2	4 000	5 200 *
28.0	63.8	56.3	3 400	4 600 *
30.0	61.7	55.3	3 000	4 100 *
32.0	59.5	54.1	2 600	3 600 *
34.0	57.3	52.9	2 300	3 200 *
36.0	55.0	51.6	2 000	2 800 *
38.0	52.7	50.1	1 700	2 500 *
40.0	50.3	48.5	1 500	2 100 *
42.0	47.8	46.7		1 800 *
44.0	45.2	44.8		1 600 *