

Liftcrane Boom Capacities

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

European Standards
10 m/s Maximum Wind
7 m/s with Jib

222 SERIES B 222EX SERIES B

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with EN 13000 and ISO 4305 (1.25P + 0.1F). 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 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, etc., beneath boom and jib point sheaves, is considered part of main boom load. Reeved hoist line included in boom weight. 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. 9159-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.

WIND CONDITIONS: Machine may be operated in winds up to 10 m/s (7 m/s when jib is attached) provided crane operator judgment is used to allow for wind effect on lifted load

and other considerations noted on capacity chart are followed. Wind will have a considerable effect on a load. Loads must be compensated for accordingly by reducing load ratings, reducing operating speeds or by a combination of both. Recommend stopping operation and lowering boom and jib to approximately 75 degree boom angle when wind exceeds conditions stated. Lower boom and jib to ground when wind is above 16 m/s.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart.

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 counterweight = 12 930 kg, 2nd crane counterweight = 4 540 kg, 3rd crane counterweight = 11 250 kg and four 1 590 kg crawler frame counterweights.

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

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.					

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 10
9.1m	770 kg
12.2m	950 kg
15.2m	1 180 kg
18.3m	1 410 kg



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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 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
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 *
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	9 000	11 300 *
20.0	27.2	11.3	7 900	9 600 *

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
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	10 400	13 100
18.0	45.9	19.1	8 900	11 200
20.0	38.9	16.9	7 700	9 800
22.0	30.6	14.0	6 700	8 600
24.0	19.4	9.7	6 000	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		24 400
11.0	68.8	27.2		21 300
12.0	66.5	26.8		19 000
14.0	61.9	25.8	12 300	15 500
16.0	57.0	24.6	10 200	13 000
18.0	51.8	23.2	8 700	11 200
20.0	46.3	21.4	7 600	9 700
22.0	40.2	19.3	6 600	8 600
24.0	33.1	16.6	5 800	7 600
26.0	24.4	12.9	5 200	6 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended 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		21 200
12.0	69.0	30.1		18 900
14.0	64.9	29.2	12 200	15 400
16.0	60.7	28.2	10 200	13 000
18.0	56.2	26.9	8 700	11 100
20.0	51.6	25.5	7 500	9 600
22.0	46.6	23.7	6 500	8 500
24.0	41.1	21.6	5 700	7 600
26.0	35.0	19.1	5 100	6 800
28.0	27.7	15.7	4 600	6 000
30.0	17.9	10.9	4 100	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	14 300	18 700 *
14.0	67.3	32.6	12 000	15 400
16.0	63.5	31.6	10 100	12 900
18.0	59.7	30.5	8 500	11 000
20.0	55.6	29.3	7 300	9 500
22.0	51.3	27.8	6 400	8 400
24.0	46.8	26.0	5 600	7 500
26.0	41.9	24.0	4 900	6 700
28.0	36.5	21.5	4 400	6 000
30.0	30.2	18.4	3 900	5 400
32.0	22.4	14.4	3 500	4 500 *



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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	15 200	19 900 *
12.0	72.6	36.5	13 900	18 100 *
14.0	69.3	35.8	11 600	15 300
16.0	65.9	35.0	9 900	12 800
18.0	62.4	34.0	8 400	10 900
20.0	58.8	32.9	7 200	9 400
22.0	55.1	31.6	6 300	8 400
24.0	51.1	30.1	5 500	7 400
26.0	47.0	28.3	4 800	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 *
39.6m (130 Ft.) BOOM				
6.7	81.8	40.9		34 200
7.0	81.4	40.8		32 500
8.0	79.9	40.7		27 700 *
9.0	78.5	40.5		24 600 *
10.0	77.0	40.2	16 300	21 700 *
11.0	75.5	40.0	14 700	19 400 *
12.0	74.0	39.7	13 400	17 800 *
14.0	71.0	39.1	11 300	15 000
16.0	67.9	38.3	9 600	12 700
18.0	64.7	37.4	8 300	10 800
20.0	61.5	36.4	7 100	9 400
22.0	58.1	35.2	6 100	8 300
24.0	54.6	33.9	5 300	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	3 600	5 300
32.0	38.6	26.3	3 200	4 800
34.0	33.7	23.5	2 900	4 300 *
36.0	28.0	20.2	2 600	3 700 *
38.0	21.0	15.8	2 300	3 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
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	15 800	21 100 *
11.0	76.5	43.1	14 300	18 900 *
12.0	75.2	42.9	13 000	17 300 *
14.0	72.4	42.3	10 900	14 600 *
16.0	69.5	41.6	9 300	12 400 *
18.0	66.6	40.8	8 100	10 700
20.0	63.7	39.9	6 900	9 300
22.0	60.6	38.8	6 000	8 200
24.0	57.5	37.6	5 200	7 200
26.0	54.2	36.2	4 500	6 400
28.0	50.8	34.7	4 000	5 800
30.0	47.3	32.9	3 500	5 200
32.0	43.5	31.0	3 100	4 700
34.0	39.4	28.7	2 700	4 200
36.0	35.0	26.0	2 400	3 800
38.0	29.9	22.9	2 100	3 300 *
40.0	24.0	18.9	1 900	2 700 *
42.0	16.1	13.4	1 700	2 100 *
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		23 600 *
10.0	78.7	46.5	17 100	20 600 *
11.0	77.5	46.3	15 400	18 400 *
12.0	76.2	46.0	13 900	17 100 *
14.0	73.6	45.5	12 700	14 100 *
16.0	70.9	44.8	10 700	12 000 *
18.0	68.3	44.1	9 100	10 400 *
20.0	65.5	43.2	7 900	9 100
22.0	62.7	42.3	6 800	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	3 400	5 100
32.0	47.4	35.2	3 000	4 600
34.0	43.9	33.3	2 600	4 200
36.0	40.1	31.0	2 300	3 700
38.0	36.0	28.5	2 100	3 300 *
40.0	31.5	25.5	1 800	2 900 *
42.0	26.3	21.8	1 600	2 400 *
44.0	19.9	17.1	1 400	1 900 *

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48.8m (160 Ft.) BOOM				
7.9	81.9	49.9	18 700	21 700 *
8.0	81.8	49.9	18 600	21 700 *
9.0	80.6	49.8	16 600	21 200 *
10.0	79.5	49.6	14 900	20 200 *
11.0	78.3	49.4	13 500	17 900 *
12.0	77.1	49.2	12 300	16 700 *
14.0	74.6	48.7	10 300	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	6 600	8 700
22.0	64.6	45.7	5 700	8 000
24.0	61.9	44.6	5 000	7 100
26.0	59.2	43.5	4 300	6 300
28.0	56.5	42.3	3 700	5 600
30.0	53.6	40.8	3 300	5 000
32.0	50.6	39.3	2 900	4 400
34.0	47.5	37.5	2 500	4 000
36.0	44.2	35.6	2 200	3 600
38.0	40.7	33.4	1 900	3 100 *
40.0	37.0	30.9	1 600	2 800 *
42.0	32.8	28.0	1 400	2 400 *
44.0	28.2	24.6		2 000 *
46.0	22.7	20.4		1 600 *

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	17 000	18 300 *
9.0	81.2	52.9	16 100	18 000 *
10.0	80.1	52.7	14 500	17 700 *
11.0	79.0	52.5	13 200	17 300 *
12.0	77.8	52.3	12 000	16 200 *
14.0	75.6	51.8	10 100	13 300 *
16.0	73.3	51.3	8 600	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	5 600	7 800 *
24.0	63.7	48.1	4 900	6 900 *
26.0	61.2	47.0	4 300	6 100 *
28.0	58.7	45.9	3 700	5 400 *
30.0	56.0	44.6	3 200	4 800 *
32.0	53.3	43.2	2 800	4 300 *
34.0	50.5	41.6	2 500	3 800 *
36.0	47.6	39.8	2 100	3 400 *
38.0	44.5	37.9	1 800	3 100 *
40.0	41.2	35.7	1 600	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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54.9m (180 Ft.) BOOM				
9.1	81.5	55.9	15 400	15 600 *
10.0	80.6	55.8	14 100	15 200 *
11.0	79.6	55.6	12 800	14 900 *
12.0	78.5	55.4	11 600	14 500 *
14.0	76.4	55.0	9 800	13 000 *
16.0	74.2	54.4	8 300	10 900 *
18.0	72.0	53.8	7 100	9 300 *
20.0	69.8	53.1	6 200	8 600 *
22.0	67.6	52.3	5 400	7 500 *
24.0	65.3	51.5	4 700	6 600 *
26.0	63.0	50.5	4 100	5 800 *
28.0	60.6	49.4	3 600	5 200 *
30.0	58.2	48.2	3 100	4 600 *
32.0	55.7	46.9	2 700	4 100 *
34.0	53.1	45.5	2 300	3 700 *
36.0	50.4	43.9	2 000	3 200 *
38.0	47.7	42.1	1 700	2 900 *
40.0	44.8	40.2	1 400	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 *
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	12 300	12 800 *
12.0	79.1	58.5	11 300	12 500 *
14.0	77.1	58.1	9 400	11 700 *
16.0	75.1	57.6	8 000	10 700 *
18.0	73.0	57.0	6 900	9 000 *
20.0	70.9	56.4	5 900	8 300 *
22.0	68.8	55.6	5 100	7 200 *
24.0	66.7	54.8	4 500	6 300 *
26.0	64.5	53.9	3 900	5 500 *
28.0	62.3	52.9	3 400	4 900 *
30.0	60.0	51.8	2 900	4 400 *
32.0	57.7	50.6	2 500	3 900 *
34.0	55.3	49.2	2 200	3 400 *
36.0	52.9	47.8	1 800	3 000 *
38.0	50.4	46.2	1 600	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 Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
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	9 100	10 000 *
16.0	75.8	60.7	7 700	9 500 *
18.0	73.9	60.2	6 600	8 900 *
20.0	71.9	59.6	5 700	7 900 *
22.0	69.9	58.9	4 900	6 800 *
24.0	67.9	58.1	4 200	6 000 *
26.0	65.9	57.2	3 600	5 200 *
28.0	63.8	56.3	3 200	4 600 *
30.0	61.7	55.3	2 700	4 100 *
32.0	59.5	54.1	2 400	3 600 *
34.0	57.3	52.9	2 000	3 200 *
36.0	55.0	51.6	1 700	2 800 *
38.0	52.7	50.1	1 400	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 *