

Liftcrane Boom Capacities

222HD SERIES B

Boom No. 222HD/222 With Open Throat Top
28 710 kg Crane Counterweight
6 350 kg Crawler Frame Counterweight
6 807 mm Crawlers Extended
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 (*).

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 crawlers fully extended (5 105 mm) and gantry up. Refer to boom rigging **No. 913235** and Wire Rope Specification chart **No. 9175-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-C**.

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	
Boom Length	Jib No. 10	Boom Length	Jib No. 10
61.0m	—	61.0m	—
57.9m	18.3m	57.9m	15.2m
		54.9m	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	12.3	40 500 *
8.0	55.3	11.6	34 600
9.0	49.3	10.8	29 300
10.0	42.7	9.9	25 400
11.0	35.1	8.6	22 400
12.0	25.7	6.8	17 600 *
15.2m (50 Ft.) Boom			
3.4	81.4	16.7	90 700 *
3.5	80.8	16.7	87 300 *
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	40 900
8.0	62.9	15.2	34 500
9.0	58.6	14.6	29 200
10.0	54.1	13.9	25 300
11.0	49.2	13.1	22 300
12.0	44.0	12.2	19 900
14.0	31.6	9.6	16 200
18.3m (60 Ft.) Boom			
3.7	81.9	19.8	83 300 *
4.0	80.8	19.7	76 400 *
4.5	79.2	19.6	65 900 *
5.0	77.6	19.5	58 200 *
5.5	76.0	19.4	52 300 *
6.0	74.4	19.2	47 000 *
7.0	71.1	18.9	40 200 *
8.0	67.7	18.5	34 400
9.0	64.3	18.1	29 100
10.0	60.7	17.6	25 200
11.0	57.1	17.0	22 100
12.0	53.2	16.2	19 700
14.0	44.9	14.5	16 100
16.0	35.1	12.1	13 500
18.0	21.7	8.3	11 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) Boom			
4.3	81.4	22.7	67 800 *
4.5	80.8	22.7	63 800 *
5.0	79.4	22.6	56 000 *
5.5	78.0	22.5	50 200 *
6.0	76.6	22.4	45 500 *
7.0	73.9	22.1	40 200
8.0	71.0	21.8	34 300
9.0	68.2	21.4	29 100
10.0	65.2	21.0	25 100
11.0	62.2	20.5	22 100
12.0	59.2	19.9	19 700
14.0	52.6	18.6	16 100
16.0	45.5	16.8	13 500
18.0	37.3	14.5	11 500
20.0	27.2	11.3	10 000
24.4m (80 Ft.) Boom			
4.6	81.8	25.8	60 300 *
5.0	80.7	25.7	53 900 *
5.5	79.5	25.6	48 300 *
6.0	78.3	25.5	43 900 *
7.0	75.9	25.3	40 100
8.0	73.5	25.0	34 200
9.0	71.0	24.7	28 900
10.0	68.5	24.3	25 000
11.0	66.0	23.9	22 000
12.0	63.4	23.4	19 500
14.0	57.9	22.3	15 900
16.0	52.2	20.9	13 300
18.0	45.9	19.1	11 400
20.0	38.9	16.9	9 900
22.0	30.6	14.0	8 700
24.0	19.4	9.7	7 500
27.4m (90 Ft.) Boom			
5.2	81.4	28.8	50 300 *
5.5	80.7	28.7	46 700 *
6.0	79.7	28.6	42 600 *
7.0	77.5	28.4	39 300
8.0	75.4	28.2	34 100
9.0	73.2	27.9	28 800
10.0	71.0	27.6	24 900
11.0	68.8	27.2	21 900
12.0	66.5	26.8	19 500
14.0	61.9	25.8	15 800
16.0	57.0	24.6	13 200
18.0	51.8	23.2	11 300
20.0	46.3	21.4	9 800
22.0	40.2	19.3	8 600
24.0	33.1	16.6	7 600
26.0	24.4	12.9	6 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) Boom			
5.5	81.7	31.8	45 400 *
6.0	80.7	31.7	41 300 *
7.0	78.8	31.5	35 200 *
8.0	76.9	31.3	34 400
9.0	74.9	31.1	28 900
10.0	73.0	30.8	25 000
11.0	71.0	30.4	22 000
12.0	69.0	30.1	19 500
14.0	64.9	29.2	15 900
16.0	60.7	28.2	13 300
18.0	56.2	26.9	11 400
20.0	51.6	25.5	9 900
22.0	46.6	23.7	8 700
24.0	41.1	21.6	7 700
26.0	35.0	19.1	6 900
28.0	27.7	15.7	6 200
30.0	17.9	10.9	4 800
33.5m (110 Ft.) Boom			
5.8	81.9	34.8	42 300 *
6.0	81.6	34.8	40 500 *
7.0	79.8	34.6	35 000 *
8.0	78.1	34.4	34 300
9.0	76.3	34.2	28 800
10.0	74.6	34.0	24 900
11.0	72.8	33.7	21 900
12.0	71.0	33.3	19 400
14.0	67.3	32.6	15 800
16.0	63.5	31.6	13 200
18.0	59.7	30.5	11 300
20.0	55.6	29.3	9 800
22.0	51.3	27.8	8 600
24.0	46.8	26.0	7 600
26.0	41.9	24.0	6 800
28.0	36.5	21.5	6 100
30.0	30.2	18.4	5 500
32.0	22.4	14.4	5 000

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**Meets
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Requirements**

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) Boom			
6.7	81.1	37.8	34 900 *
7.0	80.7	37.7	33 200 *
8.0	79.1	37.6	31 200
9.0	77.5	37.3	29 000
10.0	75.9	37.1	24 800
11.0	74.3	36.8	21 700
12.0	72.6	36.5	19 300
14.0	69.3	35.8	15 600
16.0	65.9	35.0	13 100
18.0	62.4	34.0	11 200
20.0	58.8	32.9	9 700
22.0	55.1	31.6	8 400
24.0	51.1	30.1	7 500
26.0	47.0	28.3	6 600
28.0	42.5	26.3	5 900
30.0	37.6	23.9	5 400
32.0	32.1	21.0	4 800
34.0	25.6	17.4	4 400
36.0	16.9	12.2	3 500
39.6m (130 Ft.) Boom			
6.7	81.8	40.9	34 100 *
7.0	81.4	40.8	32 400 *
8.0	79.9	40.7	27 600 *
9.0	78.5	40.5	26 500 *
10.0	77.0	40.2	24 900
11.0	75.5	40.0	21 600
12.0	74.0	39.7	19 200
14.0	71.0	39.1	15 600
16.0	67.9	38.3	13 000
18.0	64.7	37.4	11 000
20.0	61.5	36.4	9 500
22.0	58.1	35.2	8 300
24.0	54.6	33.9	7 300
26.0	51.0	32.4	6 500
28.0	47.1	30.6	5 800
30.0	43.0	28.6	5 200
32.0	38.6	26.3	4 700
34.0	33.7	23.5	4 300
36.0	28.0	20.2	3 900
38.0	21.0	15.8	3 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) Boom			
7.3	81.6	43.9	29 900 *
8.0	80.7	43.8	26 900 *
9.0	79.3	43.6	26 200 *
10.0	77.9	43.4	24 900
11.0	76.5	43.1	21 600
12.0	75.2	42.9	19 200
14.0	72.4	42.3	15 600
16.0	69.5	41.6	13 000
18.0	66.6	40.8	11 100
20.0	63.7	39.9	9 500
22.0	60.6	38.8	8 300
24.0	57.5	37.6	7 400
26.0	54.2	36.2	6 500
28.0	50.8	34.7	5 800
30.0	47.3	32.9	5 300
32.0	43.5	31.0	4 800
34.0	39.4	28.7	4 300
36.0	35.0	26.0	3 900
38.0	29.9	22.9	3 600
40.0	24.0	18.9	3 100
42.0	16.1	13.4	1 800 *
45.7m (150 Ft.) Boom			
7.9	81.4	46.9	26 700 *
8.0	81.3	46.8	26 500 *
9.0	80.0	46.7	24 700 *
10.0	78.7	46.5	23 800
11.0	77.5	46.3	21 600
12.0	76.2	46.0	19 100
14.0	73.6	45.5	15 500
16.0	70.9	44.8	12 900
18.0	68.3	44.1	10 900
20.0	65.5	43.2	9 400
22.0	62.7	42.3	8 200
24.0	59.9	41.2	7 200
26.0	56.9	39.9	6 400
28.0	53.9	38.5	5 700
30.0	50.7	37.0	5 100
32.0	47.4	35.2	4 600
34.0	43.9	33.3	4 200
36.0	40.1	31.0	3 800
38.0	36.0	28.5	3 500
40.0	31.5	25.5	3 100
42.0	26.3	21.8	2 400
44.0	19.9	17.1	1 400 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) Boom			
7.9	81.9	49.9	26 700 *
8.0	81.8	49.9	26 400 *
9.0	80.6	49.8	22 700 *
10.0	79.5	49.6	20 300 *
11.0	78.3	49.4	20 200 *
12.0	77.1	49.2	19 100
14.0	74.6	48.7	15 300
16.0	72.2	48.1	12 800
18.0	69.7	47.4	10 800
20.0	67.2	46.6	9 300
22.0	64.6	45.7	8 100
24.0	61.9	44.6	7 100
26.0	59.2	43.5	6 300
28.0	56.5	42.3	5 600
30.0	53.6	40.8	5 000
32.0	50.6	39.3	4 500
34.0	47.5	37.5	4 100
36.0	44.2	35.6	3 700
38.0	40.7	33.4	3 300
40.0	37.0	30.9	3 000
42.0	32.8	28.0	2 700
44.0	28.2	24.6	2 400
51.8m (170 Ft.) Boom			
8.5	81.7	52.9	23 800 *
9.0	81.2	52.9	22 200 *
10.0	80.1	52.7	19 500 *
11.0	79.0	52.5	17 800 *
12.0	77.8	52.3	16 700 *
14.0	75.6	51.8	15 400
16.0	73.3	51.3	12 600
18.0	70.9	50.6	10 700
20.0	68.6	49.9	9 200
22.0	66.2	49.0	8 000
24.0	63.7	48.1	7 000
26.0	61.2	47.0	6 200
28.0	58.7	45.9	5 500
30.0	56.0	44.6	4 900
32.0	53.3	43.2	4 400
34.0	50.5	41.6	3 900
36.0	47.6	39.8	3 500
38.0	44.5	37.9	3 200
40.0	41.2	35.7	2 900
42.0	37.8	33.3	2 600
44.0	34.0	30.5	2 300
46.0	29.8	27.3	1 900 *

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222HD SERIES B

Boom No. 222HD/222 With Open Throat Top
28 710 kg Crane Counterweight
6 350 kg Crawler Frame Counterweight
6 807 mm Crawlers Extended
360 Degree Rating

Meets
ANSI B30.5
Requirements

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) Boom			
9.1	81.5	55.9	18 100 *
10.0	80.6	55.8	18 100 *
11.0	79.6	55.6	17 300 *
12.0	78.5	55.4	16 000 *
14.0	76.4	55.0	14 800
16.0	74.2	54.4	12 700
18.0	72.0	53.8	10 700
20.0	69.8	53.1	9 200
22.0	67.6	52.3	8 000
24.0	65.3	51.5	7 000
26.0	63.0	50.5	6 200
28.0	60.6	49.4	5 500
30.0	58.2	48.2	4 900
32.0	55.7	46.9	4 400
34.0	53.1	45.5	3 900
36.0	50.4	43.9	3 500
38.0	47.7	42.1	3 200
40.0	44.8	40.2	2 800
42.0	41.7	38.1	2 600
44.0	38.5	35.7	2 300
46.0	34.9	33.0	2 000 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) Boom			
9.1	82.0	59.0	17 100 *
10.0	81.1	58.9	16 700 *
11.0	80.1	58.7	16 300 *
12.0	79.1	58.5	15 300 *
14.0	77.1	58.1	13 600 *
16.0	75.1	57.6	12 400
18.0	73.0	57.0	10 600
20.0	70.9	56.4	9 100
22.0	68.8	55.6	7 900
24.0	66.7	54.8	6 900
26.0	64.5	53.9	6 100
28.0	62.3	52.9	5 400
30.0	60.0	51.8	4 800
32.0	57.7	50.6	4 300
34.0	55.3	49.2	3 800
36.0	52.9	47.8	3 400
38.0	50.4	46.2	3 100
40.0	47.7	44.4	2 800
42.0	45.0	42.5	2 500
44.0	42.1	40.4	2 200
46.0	39.1	38.1	1 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) Boom			
9.8	81.8	62.0	15 300 *
10.0	81.6	62.0	15 100 *
11.0	80.6	61.8	14 500 *
12.0	79.7	61.6	14 100 *
14.0	77.8	61.2	12 400 *
16.0	75.8	60.7	11 500 *
18.0	73.9	60.2	10 400
20.0	71.9	59.6	8 900
22.0	69.9	58.9	7 700
24.0	67.9	58.1	6 700
26.0	65.9	57.2	5 900
28.0	63.8	56.3	5 200
30.0	61.7	55.3	4 700
32.0	59.5	54.1	4 100
34.0	57.3	52.9	3 700
36.0	55.0	51.6	3 300
38.0	52.7	50.1	2 900
40.0	50.3	48.5	2 600
42.0	47.8	46.7	2 300
44.0	45.2	44.8	2 100
46.0	42.5	42.7	1 800 *
48.0	39.6	40.4	1 500 *