

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

888 SERIES 1

Boom No. 22E With Open Throat Top
49 490 kg Counterweight
360 Degree Rating

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 or combination of two single part lines is 13 380 kg. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

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 in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. 176519** and Wire Rope Specification chart **No. 7773-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. 7771-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 8 585 mm extendible crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, four 35 mm boom pendants and 49 490 kg counterweight.

Deduct 1 810 kg from capacities
when boom butt is equipped
with auxiliary drum.

Maximum Boom Lengths Lifted Unassisted With or Without Auxiliary Drum in Boom Butt			
Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Extended Crawlers	Over Side of Retracted Crawlers
Boom Length	Boom Length	Boom Length	Boom Length
67.1m	64.0m	57.9m	54.9m
Load block, hook and weight ball on ground at start.			



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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				
4.6	81.8	23.6	184 500 *	184 500 *
5.0	80.6	23.5	167 400	169 800 *
5.5	79.3	23.4	138 500	155 300 *
6.0	77.9	23.3	117 700	142 900 *
7.0	75.1	23.1	90 100	114 900
8.0	72.3	22.8	72 700	90 000
9.0	69.5	22.4	60 700	74 000
10.0	66.6	22.0	51 900	62 600
11.0	63.6	21.6	45 100	54 100
12.0	60.6	21.0	39 800	47 400
13.0	57.5	20.4	35 500	42 200
14.0	54.2	19.8	32 000	37 800
15.0	50.8	19.0	28 900	34 200
16.0	47.3	18.1	26 400	31 100
18.0	39.4	16.0	22 200	26 200
20.0	30.0	13.1	19 000	22 400
24.4m (80 Ft.) BOOM				
5.2	81.4	26.6	156 100	164 000 *
5.5	80.6	26.5	138 800	155 000 *
6.0	79.4	26.4	117 900	142 600 *
7.0	77.0	26.2	90 200	115 200
8.0	74.6	26.0	72 800	90 100
9.0	72.1	25.7	60 700	74 100
10.0	69.7	25.3	51 900	62 600
11.0	67.1	24.9	45 100	54 100
12.0	64.6	24.5	39 800	47 400
13.0	61.9	24.0	35 400	42 100
14.0	59.2	23.4	31 900	37 800
15.0	56.5	22.8	28 900	34 200
16.0	53.6	22.1	26 300	31 100
18.0	47.5	20.4	22 200	26 200
20.0	40.7	18.4	19 000	22 400
22.0	32.9	15.7	16 400	19 400
24.0	22.8	11.9	14 300	17 000
27.4m (90 Ft.) BOOM				
5.5	81.7	29.6	139 600	155 000 *
6.0	80.6	29.5	118 000	142 300 *
7.0	78.5	29.3	90 300	115 400
8.0	76.3	29.1	72 800	90 100
9.0	74.2	28.9	60 700	74 000
10.0	72.0	28.5	51 800	62 600
11.0	69.8	28.2	45 000	54 000

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				
12.0	67.5	27.8	39 700	47 400
13.0	65.3	27.4	35 300	42 100
14.0	62.9	26.9	31 700	37 700
15.0	60.6	26.4	28 700	34 100
16.0	58.1	25.8	26 100	31 000
18.0	53.1	24.4	22 000	26 000
20.0	47.7	22.7	18 800	22 300
22.0	41.7	20.7	16 300	19 300
24.0	35.0	18.2	14 200	16 900
26.0	26.8	14.8	12 400	14 800
30.5m (100 Ft.) BOOM				
5.8	82.0	32.6	126 300	147 100 *
6.0	81.6	32.6	118 500	142 200 *
7.0	79.7	32.4	90 400	115 700
8.0	77.7	32.2	72 900	90 300
9.0	75.8	32.0	60 700	74 100
10.0	73.9	31.7	51 800	62 600
11.0	71.9	31.4	45 000	54 000
12.0	69.9	31.1	39 600	47 400
13.0	67.9	30.7	35 300	42 000
14.0	65.8	30.3	31 700	37 600
15.0	63.8	29.8	28 700	34 000
16.0	61.6	29.3	26 100	30 900
18.0	57.3	28.1	22 000	26 000
20.0	52.7	26.7	18 700	22 200
22.0	47.8	25.0	16 200	19 200
24.0	42.5	23.0	14 100	16 800
26.0	36.6	20.6	12 400	14 800
28.0	29.7	17.6	10 900	13 100
30.0	20.9	13.3	9 600	11 600
33.5m (110 Ft.) BOOM				
6.7	81.1	35.6	97 300	124 400
7.0	80.6	35.5	90 900	115 400
8.0	78.9	35.4	72 800	90 300
9.0	77.1	35.1	60 600	74 100
10.0	75.4	34.9	51 700	62 600
11.0	73.6	34.6	44 900	53 900
12.0	71.8	34.3	39 500	47 200
13.0	70.0	34.0	35 100	41 900
14.0	68.2	33.6	31 500	37 500
15.0	66.3	33.2	28 500	33 900
16.0	64.4	32.7	25 900	30 700
18.0	60.6	31.7	21 800	25 800
20.0	56.6	30.4	18 500	22 000
22.0	52.4	29.0	16 000	19 000
24.0	47.9	27.3	13 900	16 600
26.0	43.1	25.4	12 200	14 600
28.0	37.8	23.0	10 700	12 900
30.0	31.9	20.2	9 400	11 500
32.0	24.6	16.4	8 300	10 200

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49 490 kg Counterweight
360 Degree Rating

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
36.6m (120 Ft.) BOOM				
6.7	81.9	38.7	97 200	124 300
7.0	81.4	38.6	90 800	115 300
8.0	79.8	38.5	72 700	90 200
9.0	78.2	38.3	60 500	74 000
10.0	76.6	38.0	51 500	62 500
11.0	75.0	37.8	44 700	53 900
12.0	73.4	37.5	39 300	47 100
13.0	71.7	37.2	35 000	41 700
14.0	70.1	36.8	31 400	37 400
15.0	68.4	36.5	28 300	33 700
16.0	66.7	36.0	25 800	30 600
18.0	63.2	35.1	21 600	25 700
20.0	59.7	34.0	18 400	21 900
22.0	56.0	32.8	15 900	18 900
24.0	52.1	31.3	13 800	16 500
26.0	48.0	29.6	12 000	14 500
28.0	43.6	27.7	10 600	12 800
30.0	38.9	25.4	9 300	11 300
32.0	33.6	22.7	8 300	10 100
34.0	27.4	19.3	7 300	9 000
36.0	19.5	14.7	6 400	8 000
39.6m (130 Ft.) BOOM				
7.3	81.6	41.7	84 000	105 800
8.0	80.6	41.6	72 700	90 200
9.0	79.1	41.4	60 500	74 000
10.0	77.6	41.2	51 500	62 500
11.0	76.2	40.9	44 700	53 900
12.0	74.7	40.7	39 300	47 100
13.0	73.2	40.4	34 900	41 700
14.0	71.6	40.1	31 300	37 400
15.0	70.1	39.7	28 300	33 700
16.0	68.6	39.3	25 700	30 600
18.0	65.4	38.5	21 500	25 600
20.0	62.2	37.5	18 400	21 900
22.0	58.9	36.4	15 800	18 900
24.0	55.4	35.1	13 700	16 500
26.0	51.9	33.6	12 000	14 400
28.0	48.1	31.9	10 500	12 700
30.0	44.1	30.0	9 300	11 300
32.0	39.7	27.8	8 200	10 100
34.0	35.0	25.2	7 200	9 000
36.0	29.5	22.0	6 400	8 000
38.0	23.0	17.9	5 600	7 200

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				
7.9	81.4	44.6	73 700	91 700
8.0	81.3	44.6	72 700	90 300
9.0	79.9	44.5	60 300	73 900
10.0	78.5	44.3	51 400	62 400
11.0	77.2	44.1	44 600	53 700
12.0	75.8	43.8	39 100	47 000
13.0	74.4	43.6	34 800	41 600
14.0	73.0	43.3	31 200	37 200
15.0	71.6	42.9	28 100	33 500
16.0	70.2	42.6	25 600	30 400
18.0	67.3	41.8	21 400	25 500
20.0	64.3	40.9	18 200	21 700
22.0	61.3	39.9	15 600	18 700
24.0	58.2	38.7	13 600	16 300
26.0	55.0	37.4	11 900	14 300
28.0	51.7	35.9	10 400	12 600
30.0	48.1	34.2	9 100	11 200
32.0	44.4	32.3	8 000	9 900
34.0	40.4	30.1	7 100	8 800
36.0	36.1	27.6	6 200	7 900
38.0	31.3	24.6	5 500	7 000
40.0	25.6	20.9	4 800	6 300
42.0	18.5	16.0	4 200	5 500
45.7m (150 Ft.) BOOM				
7.9	82.0	47.7	73 600	91 700
8.0	81.9	47.7	72 600	90 300
9.0	80.6	47.6	60 200	73 900
10.0	79.3	47.4	51 300	62 300
11.0	78.0	47.2	44 400	53 600
12.0	76.8	47.0	39 000	46 800
13.0	75.5	46.7	34 600	41 500
14.0	74.2	46.4	31 000	37 000
15.0	72.9	46.1	28 000	33 400
16.0	71.5	45.8	25 400	30 200
18.0	68.9	45.1	21 200	25 300
20.0	66.2	44.3	18 000	21 500
22.0	63.4	43.3	15 400	18 500
24.0	60.6	42.3	13 300	16 100
26.0	57.6	41.1	11 600	14 100
28.0	54.6	39.7	10 100	12 400
30.0	51.5	38.2	8 900	10 900
32.0	48.2	36.5	7 800	9 700
34.0	44.7	34.6	6 900	8 600
36.0	41.1	32.5	6 000	7 600
38.0	37.1	30.0	5 300	6 800
40.0	32.7	27.2	4 600	6 000
42.0	27.7	23.7	4 000	5 300
44.0	21.7	19.4	3 400	4 700



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48.8m (160 Ft.) BOOM				
8.5	81.7	50.7	65 300	80 600
9.0	81.2	50.7	60 200	73 900
10.0	80.0	50.5	51 100	62 100
11.0	78.8	50.3	44 200	53 400
12.0	77.6	50.1	38 800	46 700
13.0	76.4	49.9	34 400	41 300
14.0	75.2	49.6	30 800	36 900
15.0	74.0	49.3	27 800	33 200
16.0	72.7	49.0	25 200	30 100
18.0	70.3	48.4	21 000	25 100
20.0	67.7	47.6	17 800	21 300
22.0	65.2	46.7	15 200	18 300
24.0	62.6	45.7	13 100	15 900
26.0	59.9	44.6	11 400	13 900
28.0	57.1	43.4	9 900	12 200
30.0	54.3	42.1	8 700	10 700
32.0	51.3	40.5	7 600	9 500
34.0	48.2	38.8	6 700	8 400
36.0	45.0	37.0	5 800	7 500
38.0	41.6	34.8	5 100	6 600
40.0	37.9	32.4	4 400	5 800
42.0	33.9	29.7	3 800	5 200
44.0	29.4	26.4	3 300	4 500
46.0	24.2	22.5	2 700	4 000
51.8m (170 Ft.) BOOM				
9.1	81.5	53.7	58 500	71 800
10.0	80.6	53.6	51 000	62 000
11.0	79.5	53.4	44 100	53 400
12.0	78.3	53.2	38 700	46 600
13.0	77.2	53.0	34 300	41 200
14.0	76.1	52.8	30 700	36 800
15.0	74.9	52.5	27 600	33 100
16.0	73.8	52.2	25 000	30 000
18.0	71.5	51.6	20 900	25 000
20.0	69.1	50.9	17 600	21 200
22.0	66.7	50.1	15 100	18 200
24.0	64.3	49.1	13 000	15 700
26.0	61.8	48.1	11 300	13 700
28.0	59.3	47.0	9 800	12 100
30.0	56.7	45.7	8 600	10 600

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				
32.0	54.0	44.4	7 500	9 400
34.0	51.2	42.8	6 500	8 300
36.0	48.3	41.1	5 700	7 300
38.0	45.3	39.3	5 000	6 500
40.0	42.1	37.2	4 300	5 800
42.0	38.6	34.8	3 700	5 100
44.0	34.9	32.1	3 100	4 500
46.0	30.9	29.0	2 700	3 900
48.0	26.2	25.4	2 200	3 300
50.0	20.7	20.8		2 900
54.9m (180 Ft.) BOOM				
9.1	82.0	56.8	58 400	71 600
10.0	81.1	56.7	50 800	61 900
11.0	80.1	56.5	43 900	53 200
12.0	79.0	56.3	38 500	46 400
13.0	77.9	56.1	34 100	41 000
14.0	76.9	55.9	30 500	36 600
15.0	75.8	55.6	27 500	32 900
16.0	74.7	55.4	24 900	29 800
18.0	72.5	54.8	20 700	24 800
20.0	70.3	54.1	17 500	21 000
22.0	68.1	53.4	14 900	18 000
24.0	65.8	52.5	12 800	15 600
26.0	63.5	51.6	11 100	13 600
28.0	61.1	50.5	9 600	11 900
30.0	58.7	49.4	8 400	10 400
32.0	56.3	48.1	7 300	9 200
34.0	53.7	46.7	6 400	8 100
36.0	51.1	45.1	5 500	7 100
38.0	48.3	43.4	4 800	6 300
40.0	45.5	41.6	4 100	5 500
42.0	42.5	39.5	3 500	4 900
44.0	39.3	37.2	2 900	4 300
46.0	35.8	34.6	2 500	3 700
48.0	32.1	31.6	2 000	3 200
50.0	27.9	28.2		2 700
52.0	23.1	24.0		2 300



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57.9m (190 Ft.) BOOM				
9.8	81.8	59.8	52 700	64 400
10.0	81.6	59.7	50 800	61 900
11.0	80.6	59.6	43 800	53 100
12.0	79.6	59.4	38 400	46 300
13.0	78.6	59.2	33 900	40 900
14.0	77.6	59.0	30 300	36 500
15.0	76.5	58.8	27 300	32 700
16.0	75.5	58.5	24 700	29 600
18.0	73.5	58.0	20 500	24 600
20.0	71.4	57.3	17 200	20 800
22.0	69.3	56.6	14 700	17 800
24.0	67.2	55.8	12 600	15 400
26.0	65.0	54.9	10 900	13 300
28.0	62.8	54.0	9 400	11 700
30.0	60.5	52.9	8 100	10 200
32.0	58.2	51.7	7 100	9 000
34.0	55.9	50.4	6 100	7 900
36.0	53.5	49.0	5 300	6 900
38.0	51.0	47.4	4 500	6 100
40.0	48.4	45.7	3 900	5 300
42.0	45.7	43.9	3 300	4 600
44.0	42.8	41.8	2 700	4 000
46.0	39.8	39.5	2 200	3 500
48.0	36.6	37.0		2 900
50.0	33.2	34.1		2 500
52.0	29.4	30.8		2 000
61.0m (200 Ft.) BOOM				
10.4	81.7	62.8	47 800	58 200
11.0	81.1	62.7	43 600	52 900
12.0	80.1	62.5	38 100	46 100
13.0	79.1	62.3	33 800	40 700
14.0	78.2	62.1	30 100	36 200
15.0	77.2	61.9	27 100	32 500
16.0	76.3	61.7	24 400	29 400
18.0	74.3	61.2	20 300	24 400
20.0	72.4	60.6	17 000	20 600
22.0	70.4	59.9	14 500	17 600
24.0	68.4	59.1	12 400	15 200
26.0	66.3	58.3	10 600	13 200
28.0	64.3	57.4	9 200	11 400
30.0	62.2	56.4	7 900	10 000
32.0	60.0	55.3	6 800	8 800
34.0	57.8	54.0	5 900	7 700
36.0	55.6	52.7	5 100	6 700
38.0	53.2	51.3	4 300	5 900
40.0	50.9	49.7	3 600	5 100
42.0	48.4	48.0	3 100	4 400
44.0	45.8	46.2	2 500	3 800
46.0	43.1	44.1		3 200
48.0	40.3	41.9		2 700
50.0	37.3	39.4		2 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Crawlers Retracted Kilograms	Boom Capacity Crawlers Extended Kilograms
64.0m (210 Ft.) BOOM				
11.0	81.5	65.8	43 600	53 000
12.0	80.6	65.6	38 000	46 000
13.0	79.7	65.4	33 600	40 600
14.0	78.8	65.2	30 000	36 100
15.0	77.8	65.0	26 900	32 400
16.0	76.9	64.8	24 300	29 300
18.0	75.1	64.3	20 100	24 300
20.0	73.2	63.7	16 900	20 400
22.0	71.3	63.1	14 300	17 400
24.0	69.4	62.4	12 200	15 000
26.0	67.5	61.6	10 500	13 000
28.0	65.6	60.7	9 000	11 300
30.0	63.6	59.8	7 800	9 800
32.0	61.6	58.7	6 700	8 600
34.0	59.5	57.6	5 700	7 500
36.0	57.4	56.4	4 900	6 500
38.0	55.3	55.1	4 200	5 700
40.0	53.1	53.6	3 500	4 900
42.0	50.8	52.0	2 900	4 300
44.0	48.4	50.3	2 400	3 700
46.0	46.0	48.5		3 100
48.0	43.4	46.5		2 600
50.0	40.8	44.3		2 100
67.1m (220 Ft.) BOOM				
11.0	81.9	68.8	43 400	52 800
12.0	81.0	68.7	37 800	45 800
13.0	80.1	68.5	33 400	40 400
14.0	79.3	68.3	29 800	35 900
15.0	78.4	68.1	26 700	32 200
16.0	77.5	67.9	24 100	29 100
18.0	75.8	67.5	19 900	24 100
20.0	74.0	66.9	16 700	20 300
22.0	72.2	66.3	14 100	17 300
24.0	70.4	65.6	12 000	14 800
26.0	68.6	64.9	10 300	12 800
28.0	66.7	64.1	8 800	11 100
30.0	64.9	63.2	7 600	9 700
32.0	63.0	62.2	6 500	8 400
34.0	61.0	61.1	5 500	7 300
36.0	59.1	60.0	4 700	6 400
38.0	57.0	58.7	3 900	5 500
40.0	55.0	57.4	3 300	4 800
42.0	52.9	55.9	2 700	4 100
44.0	50.7	54.3	2 100	3 500
46.0	48.5	52.6		2 900
48.0	46.1	50.8		2 400
50.0	43.7	48.8		1 900