

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

888 SERIES 1

Boom No. 22EL
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 (*). Capacities indicated by (b) require 5 670 kg minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 13 380 kg or 26 760 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 9 070 kg or 18 140 kg with two part whip line. 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. 177156** or **No. 177353** and Wire Rope Specification chart **No. 7810-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. 7808-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.

Maximum Boom Lengths Lifted Unassisted			
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
64.0m	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				
4.9	82.8	23.5	172 700 *b	172 700 *b
5.0	82.5	23.5	166 700 b	168 800 *b
5.5	81.1	23.4	140 200 b	154 100 *b
6.0	79.7	23.3	119 000 b	141 800 *b
7.0	77.0	23.1	90 900 b	116 600 b
8.0	74.2	22.8	73 200	90 800
9.0	71.3	22.5	60 900	74 500
10.0	68.4	22.1	51 900	62 900
11.0	65.5	21.6	45 100	54 200
12.0	62.5	21.1	39 600	47 400
13.0	59.3	20.5	35 200	42 000
14.0	56.1	19.8	31 600	37 600
15.0	52.7	19.0	28 500	33 900
16.0	49.1	18.1	25 900	30 800
18.0	41.3	16.0	21 600	25 700
20.0	31.9	13.2	18 400	21 800
24.4m (80 Ft.) BOOM				
5.2	83.0	26.6	158 300 b	162 700 *b
5.5	82.2	26.5	140 600 b	153 800 *b
6.0	81.0	26.4	119 300 b	141 400 *b
7.0	78.6	26.2	91 100 b	117 000 b
8.0	76.2	26.0	73 300	91 000
9.0	73.8	25.7	61 000	74 600
10.0	71.3	25.3	52 000	63 000
11.0	68.8	24.9	45 100	54 300
12.0	66.2	24.5	39 600	47 500
13.0	63.5	24.0	35 200	42 100
14.0	60.9	23.4	31 500	37 600
15.0	58.1	22.8	28 500	33 900
16.0	55.2	22.1	25 800	30 800
18.0	49.1	20.4	21 600	25 700
20.0	42.4	18.4	18 400	21 900
22.0	34.5	15.7	15 700	18 800
24.0	24.5	11.9	13 500	16 300
27.4m (90 Ft.) BOOM				
5.8	82.5	29.6	127 700 b	146 100 *b
6.0	82.0	29.5	119 900 b	141 300 *b
7.0	79.9	29.3	91 300 b	117 400 b
8.0	77.8	29.1	73 400	91 200
9.0	75.6	28.9	61 100	74 800
10.0	73.4	28.6	52 000	63 100
11.0	71.2	28.2	45 100	54 400

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	69.0	27.8	39 600	47 500
13.0	66.7	27.4	35 200	42 100
14.0	64.4	26.9	31 500	37 600
15.0	62.0	26.4	28 500	33 900
16.0	59.6	25.8	25 800	30 800
18.0	54.5	24.4	21 600	25 700
20.0	49.1	22.7	18 400	21 900
22.0	43.2	20.7	15 700	18 800
24.0	36.4	18.2	13 600	16 400
26.0	28.3	14.9	11 800	14 200
30.5m (100 Ft.) BOOM				
6.1	82.7	32.6	116 400 b	138 900 *b
7.0	80.9	32.5	91 400 b	117 700 b
8.0	79.0	32.3	73 500	91 400
9.0	77.1	32.0	61 100	74 900
10.0	75.1	31.7	52 000	63 200
11.0	73.2	31.4	45 100	54 400
12.0	71.2	31.1	39 700	47 600
13.0	69.2	30.7	35 200	42 100
14.0	67.1	30.3	31 600	37 700
15.0	65.1	29.8	28 500	34 000
16.0	62.9	29.3	25 900	30 800
18.0	58.6	28.1	21 600	25 800
20.0	54.0	26.7	18 400	21 900
22.0	49.1	25.0	15 800	18 900
24.0	43.8	23.1	13 700	16 400
26.0	37.9	20.6	11 800	14 300
28.0	31.0	17.6	10 300	12 600
30.0	22.2	13.4	9 000	11 100
33.5m (110 Ft.) BOOM				
6.7	82.3	35.6	98 600	126 300 *
7.0	81.8	35.5	92 100	117 100
8.0	80.0	35.4	73 600	91 500
9.0	78.3	35.2	61 100	75 000
10.0	76.5	34.9	52 000	63 200
11.0	74.8	34.6	45 100	54 400
12.0	73.0	34.3	39 600	47 600
13.0	71.2	34.0	35 200	42 100
14.0	69.3	33.6	31 500	37 600
15.0	67.5	33.2	28 400	33 900
16.0	65.6	32.7	25 800	30 700
18.0	61.7	31.7	21 600	25 700
20.0	57.7	30.4	18 300	21 800
22.0	53.5	29.0	15 700	18 800
24.0	49.1	27.3	13 500	16 300
26.0	44.3	25.4	11 800	14 300
28.0	39.0	23.0	10 300	12 500
30.0	33.1	20.2	8 900	11 000
32.0	25.8	16.5	7 800	9 700

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36.6m (120 Ft.) BOOM				
6.7	82.9	38.7	98 600	126 000 *
7.0	82.5	38.6	92 100	117 000
8.0	80.9	38.5	73 600	91 500
9.0	79.3	38.3	61 100	75 000
10.0	77.7	38.0	52 000	63 200
11.0	76.1	37.8	45 100	54 400
12.0	74.4	37.5	39 600	47 600
13.0	72.8	37.2	35 100	42 100
14.0	71.1	36.8	31 500	37 600
15.0	69.5	36.5	28 400	33 900
16.0	67.8	36.1	25 700	30 700
18.0	64.3	35.1	21 500	25 700
20.0	60.7	34.0	18 200	21 800
22.0	57.0	32.8	15 600	18 700
24.0	53.2	31.3	13 500	16 300
26.0	49.1	29.6	11 700	14 200
28.0	44.7	27.7	10 200	12 500
30.0	40.0	25.4	8 900	11 000
32.0	34.7	22.7	7 800	9 700
34.0	28.5	19.3	6 800	8 600
36.0	20.6	14.7	5 900	7 600
39.6m (130 Ft.) BOOM				
7.3	82.6	41.7	85 200	107 500
8.0	81.6	41.6	73 700	91 600
9.0	80.1	41.4	61 200	75 100
10.0	78.6	41.2	52 000	63 300
11.0	77.2	40.9	45 100	54 500
12.0	75.7	40.7	39 600	47 600
13.0	74.2	40.4	35 100	42 100
14.0	72.6	40.1	31 500	37 600
15.0	71.1	39.7	28 400	33 900
16.0	69.6	39.4	25 700	30 700
18.0	66.4	38.5	21 500	25 700
20.0	63.2	37.5	18 200	21 800
22.0	59.9	36.4	15 600	18 700
24.0	56.4	35.1	13 500	16 300
26.0	52.8	33.6	11 700	14 200
28.0	49.1	31.9	10 200	12 500
30.0	45.1	30.0	8 900	11 000
32.0	40.7	27.8	7 800	9 700
34.0	36.0	25.2	6 800	8 600
36.0	30.5	22.0	5 900	7 600
38.0	24.0	18.0	5 200	6 700

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	82.3	44.7	74 700	93 200
8.0	82.2	44.6	73 700	91 800
9.0	80.8	44.5	61 100	75 100
10.0	79.5	44.3	52 000	63 300
11.0	78.1	44.1	45 000	54 400
12.0	76.7	43.8	39 500	47 500
13.0	75.3	43.6	35 100	42 000
14.0	73.9	43.3	31 400	37 500
15.0	72.5	43.0	28 200	33 800
16.0	71.1	42.6	25 600	30 600
18.0	68.2	41.8	21 400	25 600
20.0	65.3	40.9	18 100	21 700
22.0	62.2	39.9	15 500	18 600
24.0	59.1	38.7	13 400	16 200
26.0	55.9	37.4	11 600	14 100
28.0	52.6	35.9	10 100	12 400
30.0	49.1	34.2	8 800	10 900
32.0	45.4	32.3	7 700	9 700
34.0	41.4	30.1	6 700	8 500
36.0	37.0	27.6	5 900	7 500
38.0	32.2	24.6	5 100	6 700
40.0	26.6	20.9	4 400	5 800
42.0	19.4	16.0	3 800	5 100
45.7m (150 Ft.) BOOM				
7.9	82.8	47.7	74 800	93 300
8.0	82.7	47.7	73 800	91 900
9.0	81.4	47.6	61 100	75 100
10.0	80.2	47.4	51 900	63 200
11.0	78.9	47.2	44 900	54 300
12.0	77.6	47.0	39 400	47 500
13.0	76.3	46.7	34 900	41 900
14.0	75.0	46.4	31 200	37 500
15.0	73.7	46.2	28 100	33 700
16.0	72.4	45.8	25 500	30 500
18.0	69.7	45.1	21 200	25 400
20.0	67.0	44.3	18 000	21 600
22.0	64.3	43.3	15 300	18 500
24.0	61.4	42.3	13 200	16 000
26.0	58.5	41.1	11 400	14 000
28.0	55.5	39.7	9 900	12 200
30.0	52.3	38.2	8 600	10 700
32.0	49.1	36.5	7 500	9 500
34.0	45.6	34.6	6 500	8 400
36.0	41.9	32.5	5 700	7 400
38.0	37.9	30.0	4 900	6 500
40.0	33.6	27.2	4 200	5 700
42.0	28.6	23.7	3 600	5 000
44.0	22.6	19.4	3 000	4 300

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48.8m (160 Ft.) BOOM				
8.5	82.5	50.7	66 400	82 100
9.0	82.0	50.7	61 200	75 200
10.0	80.8	50.5	51 800	63 100
11.0	79.6	50.3	44 800	54 300
12.0	78.4	50.1	39 300	47 400
13.0	77.2	49.9	34 800	41 900
14.0	76.0	49.6	31 100	37 400
15.0	74.8	49.3	28 000	33 600
16.0	73.5	49.0	25 400	30 400
18.0	71.1	48.4	21 100	25 300
20.0	68.5	47.6	17 800	21 400
22.0	66.0	46.7	15 200	18 400
24.0	63.4	45.7	13 000	15 900
26.0	60.7	44.6	11 300	13 800
28.0	57.9	43.4	9 800	12 100
30.0	55.1	42.1	8 500	10 600
32.0	52.1	40.5	7 400	9 300
34.0	49.1	38.8	6 400	8 200
36.0	45.8	37.0	5 600	7 200
38.0	42.4	34.8	4 800	6 400
40.0	38.7	32.4	4 100	5 600
42.0	34.7	29.7	3 500	4 900
44.0	30.2	26.4	2 900	4 200
46.0	25.0	22.5	2 400	3 600
48.0	18.5	17.3		3 100
51.8m (170 Ft.) BOOM				
8.5	83.0	53.8	66 300	82 100
9.0	82.5	53.7	61 100	75 200
10.0	81.3	53.6	51 800	63 100
11.0	80.2	53.4	44 800	54 300
12.0	79.1	53.2	39 200	47 300
13.0	78.0	53.0	34 700	41 800
14.0	76.8	52.8	31 000	37 300
15.0	75.7	52.5	27 900	33 500
16.0	74.5	52.2	25 300	30 300
18.0	72.2	51.6	21 000	25 200
20.0	69.9	50.9	17 700	21 300
22.0	67.5	50.1	15 100	18 300
24.0	65.1	49.2	13 000	15 800
26.0	62.6	48.1	11 200	13 700
28.0	60.0	47.0	9 700	12 000

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				
30.0	57.4	45.8	8 400	10 500
32.0	54.7	44.4	7 300	9 300
34.0	52.0	42.8	6 400	8 100
36.0	49.1	41.1	5 500	7 200
38.0	46.0	39.3	4 700	6 300
40.0	42.8	37.2	4 000	5 500
42.0	39.4	34.8	3 400	4 800
44.0	35.7	32.1	2 900	4 200
46.0	31.6	29.1	2 300	3 600
48.0	27.0	25.4		3 100
50.0	21.5	20.8		2 600
54.9m (180 Ft.) BOOM				
9.1	82.7	56.8	59 400	73 000
10.0	81.8	56.7	51 700	63 100
11.0	80.8	56.5	44 600	54 200
12.0	79.7	56.3	39 100	47 200
13.0	78.6	56.1	34 600	41 700
14.0	77.6	55.9	30 900	37 200
15.0	76.5	55.6	27 800	33 400
16.0	75.4	55.4	25 100	30 200
18.0	73.2	54.8	20 800	25 100
20.0	71.0	54.1	17 600	21 200
22.0	68.8	53.4	14 900	18 100
24.0	66.5	52.5	12 800	15 700
26.0	64.2	51.6	11 000	13 600
28.0	61.9	50.5	9 500	11 900
30.0	59.5	49.4	8 200	10 400
32.0	57.0	48.1	7 200	9 100
34.0	54.4	46.7	6 200	8 000
36.0	51.8	45.1	5 300	7 000
38.0	49.0	43.4	4 600	6 200
40.0	46.2	41.6	3 900	5 300
42.0	43.2	39.5	3 300	4 700
44.0	40.0	37.2	2 700	4 000
46.0	36.6	34.6	2 200	3 500
48.0	32.8	31.6		2 900
50.0	28.6	28.2		2 400

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57.9m (190 Ft.) BOOM				
9.8	82.5	59.8	53 700	65 700
10.0	82.3	59.8	51 700	63 200
11.0	81.3	59.6	44 500	54 100
12.0	80.3	59.4	39 000	47 100
13.0	79.2	59.2	34 500	41 600
14.0	78.2	59.0	30 800	37 000
15.0	77.2	58.8	27 700	33 300
16.0	76.2	58.5	25 000	30 100
18.0	74.2	58.0	20 700	25 000
20.0	72.1	57.3	17 400	21 000
22.0	70.0	56.6	14 700	18 000
24.0	67.8	55.8	12 600	15 500
26.0	65.7	54.9	10 900	13 400
28.0	63.5	54.0	9 300	11 600
30.0	61.2	52.9	8 000	10 200
32.0	58.9	51.7	6 900	8 900
34.0	56.6	50.4	6 000	7 800
36.0	54.1	49.0	5 100	6 800
38.0	51.6	47.4	4 300	5 900
40.0	49.0	45.7	3 700	5 200
42.0	46.3	43.9	3 000	4 500
44.0	43.5	41.8	2 500	3 800
46.0	40.5	39.6		3 200
48.0	37.3	37.0		2 700
50.0	33.9	34.2		2 200
61.0m (200 Ft.) BOOM				
9.8	82.9	62.9	53 500	65 500
10.0	82.7	62.8	51 600	63 100
11.0	81.7	62.7	44 400	54 000
12.0	80.7	62.5	38 800	47 000
13.0	79.8	62.3	34 300	41 400
14.0	78.8	62.1	30 600	36 900
15.0	77.9	61.9	27 500	33 100
16.0	76.9	61.7	24 800	29 900
18.0	75.0	61.2	20 500	24 800
20.0	73.0	60.6	17 200	20 900
22.0	71.0	59.9	14 600	17 800
24.0	69.0	59.1	12 400	15 300
26.0	67.0	58.3	10 700	13 200
28.0	64.9	57.4	9 200	11 500
30.0	62.8	56.4	7 900	10 000

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				
32.0	60.7	55.3	6 800	8 800
34.0	58.5	54.1	5 800	7 600
36.0	56.2	52.7	4 900	6 600
38.0	53.9	51.3	4 200	5 800
40.0	51.5	49.7	3 500	5 000
42.0	49.0	48.0	2 900	4 300
44.0	46.5	46.2	2 300	3 600
46.0	43.8	44.2		3 100
48.0	41.0	41.9		2 600
50.0	38.0	39.4		2 100
64.0m (210 Ft.) BOOM				
10.4	82.7	65.9	48 600	59 300
11.0	82.1	65.8	44 300	53 900
12.0	81.2	65.6	38 700	46 900
13.0	80.3	65.4	34 200	41 300
14.0	79.4	65.2	30 500	36 800
15.0	78.5	65.0	27 400	33 000
16.0	77.5	64.8	24 700	29 800
18.0	75.7	64.3	20 400	24 700
20.0	73.8	63.7	17 100	20 800
22.0	72.0	63.1	14 500	17 700
24.0	70.1	62.4	12 300	15 200
26.0	68.1	61.6	10 500	13 100
28.0	66.2	60.7	9 000	11 400
30.0	64.2	59.8	7 800	9 900
32.0	62.2	58.8	6 600	8 600
34.0	60.1	57.6	5 700	7 500
36.0	58.0	56.4	4 800	6 500
38.0	55.9	55.1	4 100	5 700
40.0	53.7	53.6	3 400	4 800
42.0	51.4	52.0	2 700	4 200
44.0	49.0	50.3	2 200	3 500
46.0	46.6	48.5		3 000
48.0	44.1	46.5		2 400
50.0	41.4	44.3		2 000