

Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

LIFTING CAPACITIES: Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Lifting 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.

76.2m boom length requires only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

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 on a firm uniformly supporting surface with gantry up and machine

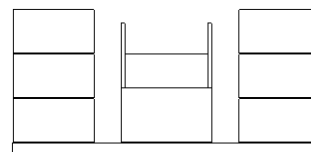
list not to exceed degrees noted. Refer to boom rigging **No. 195459** (No. 82) or **No. 195890** (No. 22EL) and Wire Rope Specification chart **No. 8223-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck 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.

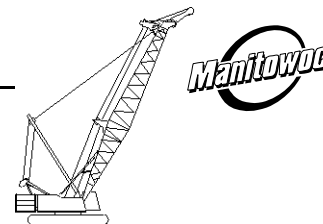
BOOM POINT ELEVATION: Boom point elevation is vertical distance from barge deck to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps or four 35 mm boom pendants and 67 860 kg counterweight.

Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Crawlers
	Boom Length	Boom Length
0 Degree	(a) 76.2m	67.1m
1 Degree	73.2m	64.0m
2 Degree	73.2m	64.0m
3 Degree	70.1m	64.0m
Load block, hook and weight ball on barge deck at start. (a) Upper boom point cannot be used on 76.2m boom. Jib is not to be used on crawler machine while operating on a barge.		



67 860 kg Crane Counterweight
6 Side Boxes - 1 Center Box

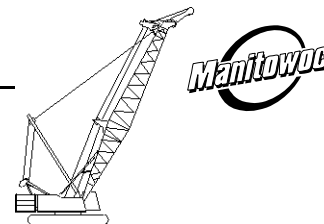


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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
21.3m (70 Ft.) BOOM							
4.9	82.8	23.5	204 600 *b				4.9
5.0	82.5	23.5	200 100 *b				5.0
5.5	81.1	23.4	183 100 *b	169 900 *b			5.5
6.0	79.7	23.3	168 700 *b	157 400 *b	145 800 b		6.0
7.0	77.0	23.1	142 300 b	127 400 b	114 700 b	105 100 b	7.0
8.0	74.2	22.8	111 400	102 000	94 000	86 900	8.0
9.0	71.3	22.5	91 600	85 000	79 200	74 000	9.0
10.0	68.4	22.1	77 500	72 600	68 300	64 300	10.0
11.0	65.5	21.6	67 000	63 200	59 800	56 700	11.0
12.0	62.5	21.1	58 700	55 800	53 100	50 600	12.0
13.0	59.3	20.5	52 200	49 800	47 600	45 600	13.0
14.0	56.1	19.8	46 800	44 900	43 000	41 400	14.0
15.0	52.7	19.0	42 300	40 700	39 200	37 700	15.0
16.0	49.1	18.1	38 500	37 200	35 900	34 700	16.0
18.0	41.3	16.0	32 400	31 500	30 500	29 700	18.0
20.0	31.9	13.2	27 700	27 100	26 400	25 800	20.0
24.4m (80 Ft.) BOOM							
5.2	83.0	26.6	193 100 *b				5.2
5.5	82.2	26.5	182 700 *b				5.5
6.0	81.0	26.4	168 400 *b	155 900 *b			6.0
7.0	78.6	26.2	142 200 b	125 900 b	112 200 b	101 700 b	7.0
8.0	76.2	26.0	111 600	101 100	92 200	84 500	8.0
9.0	73.8	25.7	91 700	84 300	77 900	72 200	9.0
10.0	71.3	25.3	77 600	72 100	67 200	62 900	10.0
11.0	68.8	24.9	67 000	62 800	58 900	55 500	11.0
12.0	66.2	24.5	58 700	55 400	52 400	49 500	12.0
13.0	63.5	24.0	52 200	49 500	47 000	44 700	13.0
14.0	60.9	23.4	46 800	44 500	42 500	40 600	14.0
15.0	58.1	22.8	42 300	40 400	38 700	37 000	15.0
16.0	55.2	22.1	38 500	36 900	35 400	34 000	16.0
18.0	49.1	20.4	32 400	31 200	30 200	29 100	18.0
20.0	42.4	18.4	27 700	26 900	26 000	25 300	20.0
22.0	34.5	15.7	24 000	23 400	22 800	22 200	22.0
24.0	24.5	11.9	21 000	20 500	20 100	19 700	24.0

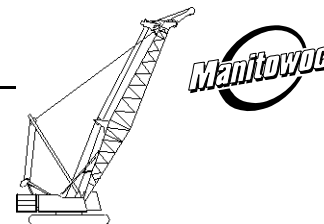


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27.4m (90 Ft.) BOOM							
5.8	82.5	29.6	173 900 *b				5.8
6.0	82.0	29.5	168 300 *b				6.0
7.0	79.9	29.3	142 200 b	124 400 b	110 200 b		7.0
8.0	77.8	29.1	111 700	100 100	90 400	82 300	8.0
9.0	75.6	28.9	91 800	83 600	76 600	70 500	9.0
10.0	73.4	28.6	77 700	71 600	66 200	61 500	10.0
11.0	71.2	28.2	67 100	62 300	58 100	54 400	11.0
12.0	69.0	27.8	58 800	55 100	51 700	48 600	12.0
13.0	66.7	27.4	52 200	49 200	46 400	43 800	13.0
14.0	64.4	26.9	46 800	44 300	42 000	39 900	14.0
15.0	62.0	26.4	42 300	40 200	38 200	36 400	15.0
16.0	59.6	25.8	38 500	36 700	35 000	33 500	16.0
18.0	54.5	24.4	32 400	31 100	29 800	28 700	18.0
20.0	49.1	22.7	27 700	26 800	25 800	24 900	20.0
22.0	43.2	20.7	24 000	23 300	22 500	21 800	22.0
24.0	36.4	18.2	21 000	20 400	19 900	19 300	24.0
26.0	28.3	14.9	18 500	18 100	17 600	17 200	26.0
30.5m (100 Ft.) BOOM							
6.1	82.7	32.6	165 600 *b				6.1
7.0	80.9	32.5	142 200 b	123 100 b			7.0
8.0	79.0	32.3	111 900	99 200	88 800	80 200	8.0
9.0	77.1	32.0	91 900	83 000	75 400	68 900	9.0
10.0	75.1	31.7	77 700	71 100	65 300	60 200	10.0
11.0	73.2	31.4	67 100	62 000	57 400	53 400	11.0
12.0	71.2	31.1	58 800	54 700	51 100	47 800	12.0
13.0	69.2	30.7	52 200	48 900	45 900	43 100	13.0
14.0	67.1	30.3	46 800	44 100	41 500	39 200	14.0
15.0	65.1	29.8	42 300	40 000	37 800	35 900	15.0
16.0	62.9	29.3	38 500	36 500	34 700	33 000	16.0
18.0	58.6	28.1	32 400	30 900	29 600	28 300	18.0
20.0	54.0	26.7	27 800	26 600	25 600	24 500	20.0
22.0	49.1	25.0	24 100	23 200	22 300	21 600	22.0
24.0	43.8	23.1	21 100	20 400	19 700	19 100	24.0
26.0	37.9	20.6	18 600	18 000	17 500	17 000	26.0
28.0	31.0	17.6	16 500	16 100	15 600	15 200	28.0
30.0	22.2	13.4	14 600	14 300	14 000	13 700	30.0

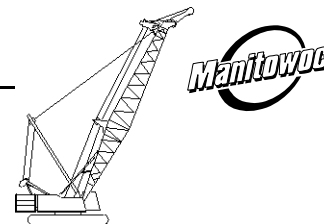


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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
33.5m (110 Ft.) BOOM							
6.7	82.3	35.6	151 000 *				6.7
7.0	81.8	35.5	141 400				7.0
8.0	80.0	35.4	111 900	98 200	87 200		8.0
9.0	78.3	35.2	92 000	82 200	74 100	67 400	9.0
10.0	76.5	34.9	77 700	70 500	64 200	58 900	10.0
11.0	74.8	34.6	67 100	61 500	56 600	52 300	11.0
12.0	73.0	34.3	58 800	54 300	50 400	46 800	12.0
13.0	71.2	34.0	52 200	48 500	45 200	42 300	13.0
14.0	69.3	33.6	46 800	43 700	41 000	38 500	14.0
15.0	67.5	33.2	42 200	39 700	37 400	35 200	15.0
16.0	65.6	32.7	38 400	36 200	34 300	32 400	16.0
18.0	61.7	31.7	32 300	30 700	29 200	27 700	18.0
20.0	57.7	30.4	27 700	26 400	25 200	24 100	20.0
22.0	53.5	29.0	24 000	23 000	22 100	21 100	22.0
24.0	49.1	27.3	21 000	20 200	19 400	18 700	24.0
26.0	44.3	25.4	18 500	17 900	17 200	16 600	26.0
28.0	39.0	23.0	16 400	15 900	15 400	14 900	28.0
30.0	33.1	20.2	14 600	14 200	13 800	13 400	30.0
32.0	25.8	16.5	13 000	12 700	12 400	12 100	32.0
36.6m (120 Ft.) BOOM							
6.7	82.9	38.7	147 100 *				6.7
7.0	82.5	38.6	139 400				7.0
8.0	80.9	38.5	112 000	97 200	85 600		8.0
9.0	79.3	38.3	92 000	81 500	72 900	65 800	9.0
10.0	77.7	38.0	77 700	69 900	63 300	57 700	10.0
11.0	76.1	37.8	67 100	61 000	55 800	51 200	11.0
12.0	74.4	37.5	58 800	53 900	49 700	45 900	12.0
13.0	72.8	37.2	52 100	48 200	44 700	41 500	13.0
14.0	71.1	36.8	46 700	43 400	40 500	37 900	14.0
15.0	69.5	36.5	42 200	39 400	36 900	34 700	15.0
16.0	67.8	36.1	38 300	36 000	33 800	31 900	16.0
18.0	64.3	35.1	32 300	30 500	28 900	27 300	18.0
20.0	60.7	34.0	27 600	26 200	24 900	23 700	20.0
22.0	57.0	32.8	23 900	22 800	21 800	20 800	22.0
24.0	53.2	31.3	20 900	20 000	19 200	18 400	24.0
26.0	49.1	29.6	18 400	17 700	17 000	16 400	26.0
28.0	44.7	27.7	16 400	15 800	15 200	14 600	28.0
30.0	40.0	25.4	14 500	14 100	13 600	13 200	30.0
32.0	34.7	22.7	13 000	12 600	12 200	11 800	32.0
34.0	28.5	19.3	11 700	11 300	11 000	10 700	34.0
36.0	20.6	14.7	10 400	10 200	9 900	9 700	36.0

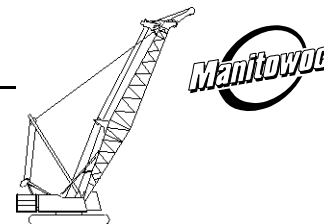


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39.6m (130 Ft.) BOOM							
7.3	82.6	41.7	131 300				7.3
8.0	81.6	41.6	112 100	96 400			8.0
9.0	80.1	41.4	92 000	80 800	71 900		9.0
10.0	78.6	41.2	77 800	69 300	62 400	56 500	10.0
11.0	77.2	40.9	67 100	60 600	55 000	50 300	11.0
12.0	75.7	40.7	58 800	53 600	49 100	45 100	12.0
13.0	74.2	40.4	52 100	47 900	44 200	40 800	13.0
14.0	72.6	40.1	46 700	43 200	40 000	37 200	14.0
15.0	71.1	39.7	42 200	39 200	36 500	34 100	15.0
16.0	69.6	39.4	38 400	35 800	33 500	31 400	16.0
18.0	66.4	38.5	32 300	30 300	28 500	26 900	18.0
20.0	63.2	37.5	27 600	26 100	24 700	23 400	20.0
22.0	59.9	36.4	23 900	22 700	21 600	20 500	22.0
24.0	56.4	35.1	20 900	19 900	19 000	18 100	24.0
26.0	52.8	33.6	18 400	17 600	16 900	16 100	26.0
28.0	49.1	31.9	16 300	15 700	15 000	14 400	28.0
30.0	45.1	30.0	14 500	14 000	13 400	12 900	30.0
32.0	40.7	27.8	13 000	12 500	12 100	11 700	32.0
34.0	36.0	25.2	11 600	11 300	10 900	10 500	34.0
36.0	30.5	22.0	10 400	10 100	9 800	9 500	36.0
38.0	24.0	18.0	9 400	9 100	8 900	8 600	38.0
42.7m (140 Ft.) BOOM							
7.9	82.3	44.7	114 000				7.9
8.0	82.2	44.6	112 300				8.0
9.0	80.8	44.5	92 000	80 200			9.0
10.0	79.5	44.3	77 700	68 800	61 400	55 400	10.0
11.0	78.1	44.1	67 100	60 100	54 200	49 300	11.0
12.0	76.7	43.8	58 700	53 200	48 400	44 300	12.0
13.0	75.3	43.6	52 100	47 500	43 600	40 100	13.0
14.0	73.9	43.3	46 600	42 900	39 500	36 600	14.0
15.0	72.5	43.0	42 100	38 900	36 100	33 500	15.0
16.0	71.1	42.6	38 300	35 500	33 100	30 800	16.0
18.0	68.2	41.8	32 200	30 100	28 200	26 500	18.0
20.0	65.3	40.9	27 400	25 900	24 400	23 000	20.0
22.0	62.2	39.9	23 800	22 500	21 300	20 200	22.0
24.0	59.1	38.7	20 800	19 700	18 700	17 800	24.0
26.0	55.9	37.4	18 300	17 500	16 600	15 800	26.0
28.0	52.6	35.9	16 200	15 500	14 800	14 100	28.0
30.0	49.1	34.2	14 400	13 800	13 200	12 700	30.0
32.0	45.4	32.3	12 900	12 400	11 900	11 400	32.0
34.0	41.4	30.1	11 500	11 100	10 700	10 300	34.0
36.0	37.0	27.6	10 400	10 000	9 600	9 300	36.0
38.0	32.2	24.6	9 300	9 000	8 700	8 400	38.0
40.0	26.6	20.9	8 400	8 100	7 800	7 600	40.0
42.0	19.4	16.0	7 500	7 300	7 100	6 900	42.0

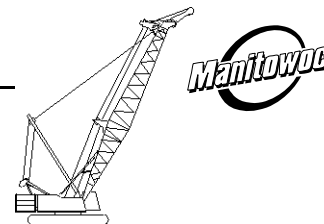


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45.7m (150 Ft.) BOOM							
7.9	82.8	47.7	114 000				7.9
8.0	82.7	47.7	112 400				8.0
9.0	81.4	47.6	92 000	79 500			9.0
10.0	80.2	47.4	77 700	68 200	60 500		10.0
11.0	78.9	47.2	67 000	59 600	53 400	48 200	11.0
12.0	77.6	47.0	58 600	52 700	47 700	43 400	12.0
13.0	76.3	46.7	51 900	47 100	43 000	39 300	13.0
14.0	75.0	46.4	46 500	42 500	39 000	35 900	14.0
15.0	73.7	46.2	42 000	38 600	35 600	32 900	15.0
16.0	72.4	45.8	38 100	35 200	32 600	30 300	16.0
18.0	69.7	45.1	32 000	29 800	27 800	26 000	18.0
20.0	67.0	44.3	27 300	25 600	24 000	22 600	20.0
22.0	64.3	43.3	23 600	22 200	21 000	19 800	22.0
24.0	61.4	42.3	20 600	19 500	18 400	17 400	24.0
26.0	58.5	41.1	18 100	17 200	16 300	15 500	26.0
28.0	55.5	39.7	16 000	15 300	14 500	13 800	28.0
30.0	52.3	38.2	14 300	13 600	12 900	12 400	30.0
32.0	49.1	36.5	12 700	12 200	11 600	11 100	32.0
34.0	45.6	34.6	11 400	10 900	10 400	10 000	34.0
36.0	41.9	32.5	10 200	9 800	9 400	9 000	36.0
38.0	37.9	30.0	9 100	8 800	8 400	8 100	38.0
40.0	33.6	27.2	8 200	7 900	7 600	7 300	40.0
42.0	28.6	23.7	7 300	7 100	6 800	6 600	42.0
44.0	22.6	19.4	6 600	6 300	6 100	5 900	44.0
48.8m (160 Ft.) BOOM							
8.5	82.5	50.7	100 500				8.5
9.0	82.0	50.7	92 200				9.0
10.0	80.8	50.5	77 600	67 600			10.0
11.0	79.6	50.3	66 900	59 100	52 700	47 300	11.0
12.0	78.4	50.1	58 500	52 300	47 000	42 600	12.0
13.0	77.2	49.9	51 800	46 700	42 400	38 600	13.0
14.0	76.0	49.6	46 400	42 100	38 400	35 200	14.0
15.0	74.8	49.3	41 900	38 200	35 100	32 300	15.0
16.0	73.5	49.0	38 000	34 900	32 200	29 700	16.0
18.0	71.1	48.4	31 900	29 500	27 400	25 500	18.0
20.0	68.5	47.6	27 200	25 400	23 700	22 200	20.0
22.0	66.0	46.7	23 500	22 000	20 600	19 400	22.0
24.0	63.4	45.7	20 500	19 300	18 100	17 100	24.0
26.0	60.7	44.6	18 000	17 000	16 100	15 200	26.0
28.0	57.9	43.4	15 900	15 000	14 300	13 500	28.0
30.0	55.1	42.1	14 100	13 400	12 700	12 100	30.0
32.0	52.1	40.5	12 600	12 000	11 400	10 800	32.0
34.0	49.1	38.8	11 200	10 700	10 200	9 700	34.0
36.0	45.8	37.0	10 100	9 600	9 200	8 700	36.0
38.0	42.4	34.8	9 000	8 600	8 200	7 800	38.0
40.0	38.7	32.4	8 100	7 700	7 400	7 100	40.0
42.0	34.7	29.7	7 200	6 900	6 600	6 400	42.0
44.0	30.2	26.4	6 400	6 200	6 000	5 700	44.0
46.0	25.0	22.5	5 800	5 500	5 300	5 100	46.0
48.0	18.5	17.3	5 100	4 900	4 700	4 500	48.0

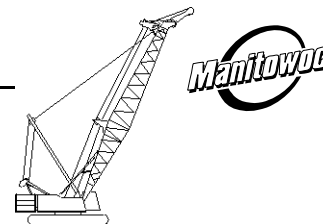


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51.8m (170 Ft.) BOOM							
8.5	83.0	53.8	100 500				8.5
9.0	82.5	53.7	92 200				9.0
10.0	81.3	53.6	77 600	67 100			10.0
11.0	80.2	53.4	66 800	58 600	51 900		11.0
12.0	79.1	53.2	58 500	51 900	46 400	41 800	12.0
13.0	78.0	53.0	51 800	46 400	41 800	37 900	13.0
14.0	76.8	52.8	46 300	41 800	37 900	34 600	14.0
15.0	75.7	52.5	41 800	38 000	34 700	31 700	15.0
16.0	74.5	52.2	37 900	34 700	31 800	29 200	16.0
18.0	72.2	51.6	31 800	29 300	27 100	25 100	18.0
20.0	69.9	50.9	27 100	25 100	23 400	21 800	20.0
22.0	67.5	50.1	23 300	21 800	20 400	19 100	22.0
24.0	65.1	49.2	20 400	19 100	17 900	16 800	24.0
26.0	62.6	48.1	17 900	16 800	15 800	14 900	26.0
28.0	60.0	47.0	15 800	14 900	14 000	13 300	28.0
30.0	57.4	45.8	14 000	13 200	12 500	11 800	30.0
32.0	54.7	44.4	12 500	11 800	11 200	10 600	32.0
34.0	52.0	42.8	11 100	10 600	10 000	9 500	34.0
36.0	49.1	41.1	9 900	9 500	9 000	8 500	36.0
38.0	46.0	39.3	8 900	8 500	8 100	7 700	38.0
40.0	42.8	37.2	7 900	7 600	7 200	6 900	40.0
42.0	39.4	34.8	7 100	6 800	6 400	6 100	42.0
44.0	35.7	32.1	6 300	6 100	5 800	5 500	44.0
46.0	31.6	29.1	5 700	5 400	5 200	4 900	46.0
48.0	27.0	25.4	5 000	4 800	4 600	4 400	48.0
50.0	21.5	20.8	4 400	4 200	4 100	3 900	50.0

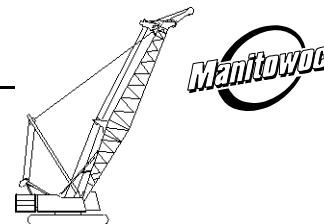


Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
54.9m (180 Ft.) BOOM							
9.1	82.7	56.8	89 500				9.1
10.0	81.8	56.7	77 500				10.0
11.0	80.8	56.5	66 700	58 100	51 100		11.0
12.0	79.7	56.3	58 400	51 400	45 700		12.0
13.0	78.6	56.1	51 700	46 000	41 300	37 200	13.0
14.0	77.6	55.9	46 200	41 400	37 400	34 000	14.0
15.0	76.5	55.6	41 700	37 700	34 200	31 200	15.0
16.0	75.4	55.4	37 800	34 400	31 300	28 700	16.0
18.0	73.2	54.8	31 600	29 000	26 700	24 600	18.0
20.0	71.0	54.1	26 900	24 900	23 000	21 300	20.0
22.0	68.8	53.4	23 200	21 600	20 100	18 700	22.0
24.0	66.5	52.5	20 200	18 900	17 600	16 400	24.0
26.0	64.2	51.6	17 700	16 600	15 600	14 600	26.0
28.0	61.9	50.5	15 600	14 700	13 800	12 900	28.0
30.0	59.5	49.4	13 800	13 100	12 300	11 500	30.0
32.0	57.0	48.1	12 300	11 600	10 900	10 300	32.0
34.0	54.4	46.7	11 000	10 400	9 800	9 200	34.0
36.0	51.8	45.1	9 800	9 300	8 800	8 300	36.0
38.0	49.0	43.4	8 800	8 300	7 800	7 400	38.0
40.0	46.2	41.6	7 800	7 400	7 000	6 600	40.0
42.0	43.2	39.5	7 000	6 600	6 300	5 900	42.0
44.0	40.0	37.2	6 200	5 900	5 600	5 300	44.0
46.0	36.6	34.6	5 500	5 200	4 900	4 700	46.0
48.0	32.8	31.6	4 900	4 600	4 400	4 100	48.0
50.0	28.6	28.2	4 300	4 100	3 900	3 600	50.0
52.0	23.8	24.0	3 700	3 500	3 400	3 200	52.0

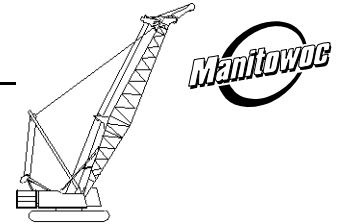


Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
57.9m (190 Ft.) BOOM							
9.8	82.5	59.8	80 600				9.8
10.0	82.3	59.8	77 600				10.0
11.0	81.3	59.6	66 700	57 600			11.0
12.0	80.3	59.4	58 300	51 000	45 100		12.0
13.0	79.2	59.2	51 600	45 600	40 700	36 500	13.0
14.0	78.2	59.0	46 100	41 100	36 900	33 300	14.0
15.0	77.2	58.8	41 500	37 300	33 700	30 600	15.0
16.0	76.2	58.5	37 600	34 000	30 900	28 200	16.0
18.0	74.2	58.0	31 500	28 700	26 300	24 100	18.0
20.0	72.1	57.3	26 800	24 600	22 700	20 900	20.0
22.0	70.0	56.6	23 000	21 300	19 700	18 300	22.0
24.0	67.8	55.8	20 000	18 600	17 300	16 100	24.0
26.0	65.7	54.9	17 500	16 300	15 200	14 200	26.0
28.0	63.5	54.0	15 400	14 400	13 500	12 600	28.0
30.0	61.2	52.9	13 600	12 800	12 000	11 200	30.0
32.0	58.9	51.7	12 100	11 400	10 700	10 000	32.0
34.0	56.6	50.4	10 800	10 100	9 500	8 900	34.0
36.0	54.1	49.0	9 600	9 000	8 500	8 000	36.0
38.0	51.6	47.4	8 500	8 000	7 600	7 100	38.0
40.0	49.0	45.7	7 600	7 100	6 700	6 300	40.0
42.0	46.3	43.9	6 800	6 400	6 000	5 600	42.0
44.0	43.5	41.8	6 000	5 600	5 300	5 000	44.0
46.0	40.5	39.6	5 300	5 000	4 700	4 400	46.0
48.0	37.3	37.0	4 700	4 400	4 100	3 900	48.0
50.0	33.9	34.2	4 100	3 800	3 600	3 400	50.0
52.0	30.0	30.9	3 500	3 400	3 100	2 900	52.0
54.0	25.7	27.0	3 000	2 800	2 700	2 500	54.0
56.0	20.5	22.1	2 600	2 400	2 300	2 100	56.0

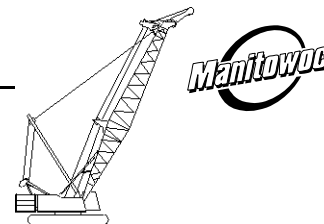


Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
61.0m (200 Ft.) BOOM							
9.8	82.9	62.9	80 200 *				9.8
10.0	82.7	62.8	77 400				10.0
11.0	81.7	62.7	66 600	57 100			11.0
12.0	80.7	62.5	58 200	50 500			12.0
13.0	79.8	62.3	51 400	45 200	40 100	34 900	13.0
14.0	78.8	62.1	46 000	40 700	36 400	32 700	14.0
15.0	77.9	61.9	41 400	37 000	33 200	30 000	15.0
16.0	76.9	61.7	37 500	33 700	30 400	27 600	16.0
18.0	75.0	61.2	31 300	28 400	25 900	23 700	18.0
20.0	73.0	60.6	26 600	24 300	22 300	20 500	20.0
22.0	71.0	59.9	22 900	21 100	19 400	17 900	22.0
24.0	69.0	59.1	19 900	18 400	17 000	15 700	24.0
26.0	67.0	58.3	17 400	16 100	15 000	13 900	26.0
28.0	64.9	57.4	15 300	14 200	13 200	12 300	28.0
30.0	62.8	56.4	13 500	12 600	11 700	10 900	30.0
32.0	60.7	55.3	11 900	11 200	10 400	9 700	32.0
34.0	58.5	54.1	10 600	9 900	9 300	8 600	34.0
36.0	56.2	52.7	9 400	8 800	8 200	7 700	36.0
38.0	53.9	51.3	8 300	7 800	7 300	6 800	38.0
40.0	51.5	49.7	7 400	7 000	6 500	6 100	40.0
42.0	49.0	48.0	6 600	6 200	5 800	5 400	42.0
44.0	46.5	46.2	5 800	5 500	5 100	4 700	44.0
46.0	43.8	44.2	5 100	4 800	4 500	4 200	46.0
48.0	41.0	41.9	4 500	4 200	3 900	3 600	48.0
50.0	38.0	39.4	3 900	3 700	3 400	3 100	50.0
52.0	34.8	36.6	3 400	3 100	2 900	2 700	52.0
54.0	31.2	33.5	2 900	2 700	2 500	2 300	54.0
56.0	27.3	29.8	2 400	2 200	2 100	1 900	56.0

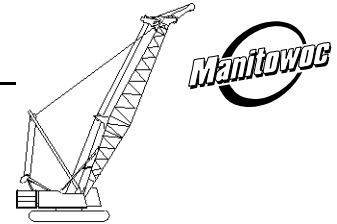


Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
64.0m (210 Ft.) BOOM							
10.4	82.7	65.9	73 000				10.4
11.0	82.1	65.8	66 500				11.0
12.0	81.2	65.6	58 000	50 200			12.0
13.0	80.3	65.4	51 300	44 800	39 300		13.0
14.0	79.4	65.2	45 900	40 400	35 900	30 800 *	14.0
15.0	78.5	65.0	41 300	36 600	32 800	29 600	15.0
16.0	77.5	64.8	37 400	33 400	30 000	27 100	16.0
18.0	75.7	64.3	31 200	28 200	25 500	23 200	18.0
20.0	73.8	63.7	26 500	24 100	22 000	20 100	20.0
22.0	72.0	63.1	22 700	20 800	19 100	17 600	22.0
24.0	70.1	62.4	19 700	18 100	16 700	15 400	24.0
26.0	68.1	61.6	17 200	15 900	14 700	13 600	26.0
28.0	66.2	60.7	15 100	14 000	13 000	12 000	28.0
30.0	64.2	59.8	13 300	12 400	11 500	10 600	30.0
32.0	62.2	58.8	11 800	11 000	10 200	9 500	32.0
34.0	60.1	57.6	10 400	9 700	9 000	8 400	34.0
36.0	58.0	56.4	9 200	8 600	8 000	7 500	36.0
38.0	55.9	55.1	8 200	7 700	7 100	6 600	38.0
40.0	53.7	53.6	7 300	6 800	6 300	5 800	40.0
42.0	51.4	52.0	6 400	6 000	5 600	5 200	42.0
44.0	49.0	50.3	5 700	5 300	4 900	4 500	44.0
46.0	46.6	48.5	5 000	4 600	4 300	4 000	46.0
48.0	44.1	46.5	4 300	4 000	3 700	3 400	48.0
50.0	41.4	44.3	3 800	3 500	3 200	2 900	50.0
52.0	38.6	41.8	3 200	3 000	2 700	2 500	52.0
54.0	35.6	39.1	2 700	2 500	2 300	2 100	54.0
56.0	32.3	36.1	2 300	2 100	1 900		56.0

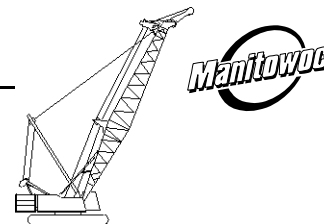


Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
67.1m (220 Ft.) BOOM							
10.4	83.0	68.9	70 300 *				10.4
11.0	82.5	68.8	66 400				11.0
12.0	81.6	68.7	58 000	47 900 *			12.0
13.0	80.7	68.5	51 200	44 500	35 400 *		13.0
14.0	79.9	68.3	45 700	40 000	35 200 *		14.0
15.0	79.0	68.2	41 100	36 300	32 300	27 200 *	15.0
16.0	78.1	67.9	37 200	33 100	29 600	26 500	16.0
18.0	76.4	67.5	31 000	27 900	25 200	22 900	18.0
20.0	74.6	66.9	26 300	23 800	21 600	19 700	20.0
22.0	72.8	66.3	22 600	20 600	18 800	17 200	22.0
24.0	71.0	65.6	19 500	17 900	16 400	15 100	24.0
26.0	69.2	64.9	17 000	15 700	14 400	13 300	26.0
28.0	67.3	64.1	14 900	13 800	12 700	11 700	28.0
30.0	65.5	63.2	13 100	12 100	11 200	10 400	30.0
32.0	63.6	62.2	11 600	10 700	9 900	9 200	32.0
34.0	61.6	61.1	10 300	9 500	8 800	8 100	34.0
36.0	59.6	60.0	9 100	8 400	7 800	7 200	36.0
38.0	57.6	58.7	8 000	7 400	6 900	6 300	38.0
40.0	55.6	57.4	7 100	6 600	6 100	5 600	40.0
42.0	53.5	55.9	6 300	5 800	5 300	4 900	42.0
44.0	51.3	54.4	5 500	5 100	4 700	4 300	44.0
46.0	49.0	52.6	4 800	4 400	4 000	3 700	46.0
48.0	46.7	50.8	4 200	3 800	3 500	3 200	48.0
50.0	44.3	48.8	3 600	3 300	3 000	2 700	50.0
52.0	41.8	46.6	3 000	2 800	2 500	2 300	52.0
54.0	39.1	44.2	2 600	2 300	2 100		54.0
56.0	36.3	41.6	2 100	1 900			56.0

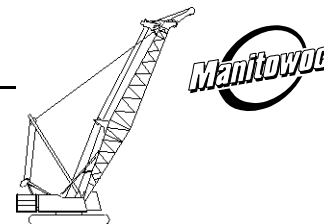


Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
70.1m (230 Ft.) BOOM							
11.0	82.8	71.9	63 100 *				11.0
12.0	82.0	71.8	58 200				12.0
13.0	81.1	71.6	51 100	42 600			13.0
14.0	80.3	71.4	45 500	39 700	31 200 *		14.0
15.0	79.5	71.3	41 000	36 000	31 100 *	23 800 *	15.0
16.0	78.6	71.1	37 100	32 700	29 900	23 800 *	16.0
18.0	77.0	70.6	30 900	27 600	24 800	22 300	18.0
20.0	75.3	70.1	26 100	23 600	21 300	19 300	20.0
22.0	73.6	69.5	22 400	20 300	18 400	16 800	22.0
24.0	71.9	68.9	19 300	17 600	16 100	14 700	24.0
26.0	70.1	68.2	16 900	15 400	14 100	12 900	26.0
28.0	68.4	67.4	14 700	13 500	12 400	11 400	28.0
30.0	66.6	66.5	12 900	11 900	10 900	10 000	30.0
32.0	64.8	65.6	11 400	10 500	9 600	8 800	32.0
34.0	63.0	64.6	10 000	9 200	8 500	7 800	34.0
36.0	61.1	63.5	8 800	8 100	7 500	6 900	36.0
38.0	59.2	62.3	7 800	7 200	6 600	6 100	38.0
40.0	57.3	61.1	6 900	6 300	5 800	5 300	40.0
42.0	55.3	59.7	6 000	5 500	5 100	4 600	42.0
44.0	53.3	58.2	5 300	4 800	4 400	4 000	44.0
46.0	51.2	56.7	4 600	4 200	3 800	3 400	46.0
48.0	49.0	54.9	3 900	3 600	3 200	2 900	48.0
50.0	46.8	53.1	3 300	3 000	2 700	2 400	50.0
52.0	44.5	51.1	2 800	2 500	2 300		52.0
54.0	42.1	48.9	2 300	2 100			54.0
56.0	39.6	46.6	1 900				56.0

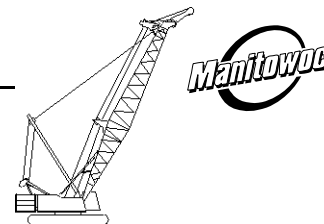


Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	Oper. Radius Meters
73.2m (240 Ft.) BOOM						
11.6	82.6	74.9	57 200 *			11.6
12.0	82.3	74.9	56 600			12.0
13.0	81.5	74.7	50 900	38 500 *		13.0
14.0	80.7	74.5	45 400	38 300 *		14.0
15.0	79.9	74.4	40 800	35 700	27 800 *	15.0
16.0	79.1	74.2	36 900	32 400	27 500	16.0
18.0	77.5	73.7	30 700	27 300	24 600	18.0
20.0	75.9	73.2	25 900	23 200	20 900	20.0
22.0	74.3	72.7	22 200	20 000	18 100	22.0
24.0	72.6	72.1	19 200	17 400	15 800	24.0
26.0	71.0	71.4	16 700	15 100	13 800	26.0
28.0	69.3	70.7	14 500	13 300	12 100	28.0
30.0	67.6	69.8	12 800	11 600	10 700	30.0
32.0	65.9	69.0	11 200	10 200	9 400	32.0
34.0	64.2	68.0	9 900	9 000	8 200	34.0
36.0	62.4	67.0	8 700	7 900	7 200	36.0
38.0	60.6	65.9	7 600	7 000	6 300	38.0
40.0	58.8	64.7	6 700	6 100	5 600	40.0
42.0	56.9	63.4	5 800	5 300	4 800	42.0
44.0	55.0	62.0	5 100	4 600	4 100	44.0
46.0	53.1	60.5	4 400	3 900	3 500	46.0
48.0	51.1	59.0	3 800	3 400	3 000	48.0
50.0	49.0	57.2	3 200	2 800	2 500	50.0
52.0	46.9	55.4	2 600	2 300		52.0
54.0	44.7	53.4	2 200			54.0



Liftcrane Boom Capacities

Boom No. 82 or 22EL
67 860 kg Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

999 SERIES 1

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms
76.2m (250 Ft.) BOOM			
11.6	82.9	78.0	51 900 *
12.0	82.6	77.9	51 800 *
13.0	81.9	77.8	50 900
14.0	81.1	77.6	45 600
15.0	80.3	77.5	41 000
16.0	79.6	77.3	37 100
18.0	78.0	76.9	30 900
20.0	76.5	76.4	26 100
22.0	74.9	75.9	22 400
24.0	73.4	75.3	19 300
26.0	71.8	74.6	16 800
28.0	70.2	73.9	14 700
30.0	68.6	73.1	12 900
32.0	66.9	72.3	11 300
34.0	65.3	71.4	10 000
36.0	63.6	70.4	8 800
38.0	61.9	69.4	7 800
40.0	60.2	68.2	6 800
42.0	58.4	67.0	6 000
44.0	56.6	65.7	5 200
46.0	54.8	64.3	4 500
48.0	52.9	62.8	3 900
50.0	51.0	61.3	3 300
52.0	49.0	59.5	2 800
54.0	47.0	57.7	2 300
56.0	44.9	55.7	1 800