

Liftcrane Boom Capacities

Boom No. 83A

24 040 kg Counterweight

7 163 mm Crawlers Extended

Crawler Machine on a Barge

0 Degree thru 3 Degree Machine List

No Travel - 360 Degree Rating

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 1 770 kg minimum weight. Capacities indicated by (c) require 4 540 kg minimum weight. Capacities indicated by (d) require 6 800 kg minimum weight.

To maintain boom and mast stability at high boom angles, a minimum of 4 parts hoist line is required for capacities denoted by (c) and (d).

Upper boom point operation not allowed on capacities denoted by (b), (c) or (d).

Upper boom point capacity for liftcrane service is 29 940 kg with single part 38 mm whip line. Upper boom point capacity for liftcrane service is 19 960 kg with single part 32 mm whip line or 29 940 kg with two part whip line. When boom butt mounted auxiliary drum equipped for 28 mm wire rope is used, capacity with single part whip line is 14 970 kg or 29 940 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of upper boom point, 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 machine list not to exceed degrees noted and gantry up. Refer to boom rigging **No. A14196** and Wire Rope Specification chart **No. 8689-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 Operator's 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 7 163 mm extendible crawlers, 1 000 mm treads, 2 921 mm gantry, 7 620 mm live mast, 12 part boom hoist reeving, two 38 mm pendants and 24 040 kg counterweight.

Upper Boom Point Deduct

Deduct 590 kg from capacities when upper boom point is attached.

Auxiliary Drum Deduct

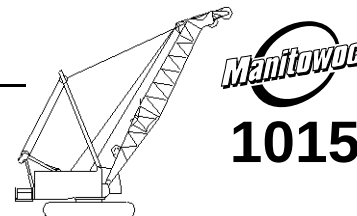
Deduct 910 kg from boom capacities when boom butt is equipped with auxiliary drum.

Maximum Boom Lengths Lifted Unassisted

	Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Extended Crawlers
List	Boom Length	Boom Length	Boom Length
0 Degree	(a) 57,9m	51,8m	45,7m
1 Degree	(a) 54,9m	51,8m	45,7m
2 Degree	51,8m	51,8m	45,7m
3 Degree	51,8m	51,8m	42,7m

Load block, hook and weight ball on barge deck at start. (a) Upper boom point cannot be attached on 54,9m and 57,9m boom. Jib cannot be attached on crawler machine while operating on a barge.

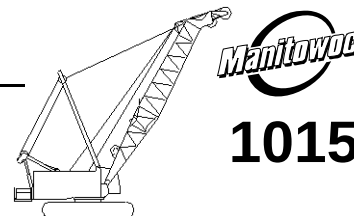
Wire rope guard (**No. A13283**) on boom top must be removed before use of this chart.


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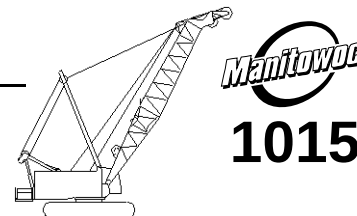
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
15,2m (50 Ft.) Boom							
4,3	82,0	17,5	120 000 *d	110 600 *d			4,3
4,5	81,1	17,5	115 200 *d	109 700 d			4,5
5,0	79,2	17,3	106 600 c	94 200 c	85 000 c	77 400 c	5,0
5,5	77,2	17,2	89 200 c	81 000 c	73 900 c	67 900 c	5,5
6,0	75,3	17,0	77 200 b	70 800 b	65 300 b	60 500 b	6,0
7,0	71,3	16,7	60 500 b	56 400 b	52 700 b	49 400 b	7,0
8,0	67,2	16,2	49 500	46 700	44 000	41 600	8,0
9,0	62,9	15,7	41 700	39 600	37 600	35 800	9,0
10,0	58,5	15,1	35 800	34 200	32 700	31 300	10,0
11,0	53,8	14,4	31 300	30 000	28 800	27 700	11,0
12,0	48,8	13,5	27 600	26 600	25 700	24 700	12,0
14,0	37,1	11,1	22 100	21 400	20 800	20 200	14,0
18,3m (60 Ft.) Boom							
4,6	82,4	20,5	114 600 *d				4,6
5,0	81,0	20,5	106 800 c	93 000 c			5,0
5,5	79,4	20,3	89 500 c	79 900 c	72 000 c	65 600 c	5,5
6,0	77,8	20,2	77 400 b	70 000 b	63 800 b	58 400 b	6,0
7,0	74,5	19,9	60 700 b	55 900 b	51 700 b	48 000 b	7,0
8,0	71,2	19,6	49 600	46 300	43 300	40 500	8,0
9,0	67,8	19,1	41 800	39 300	37 000	34 900	9,0
10,0	64,3	18,6	35 900	34 000	32 200	30 600	10,0
11,0	60,7	18,1	31 400	29 800	28 400	27 100	11,0
12,0	56,9	17,4	27 700	26 500	25 300	24 300	12,0
14,0	48,8	15,8	22 200	21 400	20 600	19 800	14,0
16,0	39,4	13,5	18 200	17 700	17 100	16 600	16,0
18,0	27,1	10,2	15 200	14 800	14 500	14 100	18,0
21,3m (70 Ft.) Boom							
4,9	82,6	23,6	110 600 c				4,9
5,0	82,3	23,5	106 000 c				5,0
5,5	80,9	23,5	89 600 c	78 800 c	70 300 c		5,5
6,0	79,6	23,4	77 500 b	69 100 b	62 200 b		6,0
7,0	76,8	23,1	60 700 b	55 300 b	50 600 b	46 500 b	7,0
8,0	74,0	22,8	49 700	45 800	42 500	39 500	8,0
9,0	71,1	22,5	41 800	39 000	36 400	34 100	9,0
10,0	68,2	22,0	35 900	33 700	31 700	29 900	10,0
11,0	65,3	21,6	31 400	29 700	28 000	26 500	11,0
12,0	62,2	21,0	27 700	26 300	25 000	23 800	12,0
14,0	55,8	19,7	22 200	21 300	20 300	19 500	14,0
16,0	48,8	18,1	18 300	17 600	16 900	16 300	16,0
18,0	40,9	15,9	15 400	14 800	14 300	13 900	18,0
20,0	31,3	12,9	13 000	12 600	12 300	11 900	20,0


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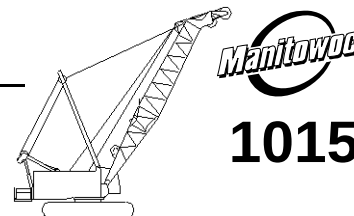
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
24,4m (80 Ft.) Boom							
5,2	82,8	26,6	98 800 c				5,2
5,5	82,1	26,5	89 100 c				5,5
6,0	80,9	26,5	77 100 b	67 900 b			6,0
7,0	78,5	26,2	60 300 b	54 300 b	49 200 b	45 000 b	7,0
8,0	76,1	26,0	49 300	45 100	41 400	38 200	8,0
9,0	73,6	25,7	41 500	38 300	35 500	33 000	9,0
10,0	71,1	25,3	35 600	33 200	31 000	29 000	10,0
11,0	68,6	24,9	31 100	29 100	27 300	25 700	11,0
12,0	66,0	24,5	27 400	25 900	24 400	23 100	12,0
14,0	60,6	23,4	22 000	20 900	19 800	18 900	14,0
16,0	55,0	22,0	18 100	17 300	16 500	15 800	16,0
18,0	48,9	20,4	15 100	14 600	14 000	13 400	18,0
20,0	42,0	18,3	12 900	12 400	12 000	11 500	20,0
22,0	34,1	15,5	11 000	10 700	10 300	10 000	22,0
24,0	23,8	11,6	9 500	9 200	9 000	8 700	24,0
27,4m (90 Ft.) Boom							
5,5	83,0	29,6	89 500 c				5,5
6,0	81,9	29,6	77 000 b				6,0
7,0	79,8	29,4	60 300 b	53 700 b	48 300 b		7,0
8,0	77,6	29,1	49 300	44 600	40 500	37 100	8,0
9,0	75,5	28,9	41 400	37 900	34 900	32 200	9,0
10,0	73,3	28,6	35 600	32 800	30 400	28 300	10,0
11,0	71,1	28,2	31 000	28 800	26 900	25 100	11,0
12,0	68,8	27,8	27 400	25 600	24 000	22 500	12,0
14,0	64,2	26,9	21 900	20 700	19 500	18 400	14,0
16,0	59,4	25,7	18 000	17 100	16 300	15 500	16,0
18,0	54,3	24,3	15 100	14 400	13 700	13 100	18,0
20,0	48,9	22,7	12 800	12 300	11 800	11 300	20,0
22,0	42,9	20,6	11 000	10 600	10 200	9 800	22,0
24,0	36,1	18,0	9 500	9 100	8 800	8 500	24,0
26,0	27,8	14,6	8 200	7 900	7 700	7 400	26,0


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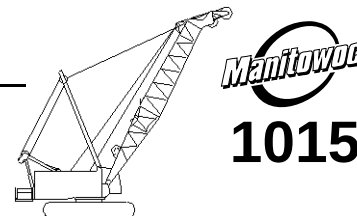
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
30,5m (100 Ft.) Boom							
6,1	82,5	32,6	75 100 b				6,1
7,0	80,8	32,5	60 200 b	53 200 b			7,0
8,0	78,9	32,3	49 200	44 000	39 700	36 100	8,0
9,0	77,0	32,0	41 300	37 500	34 200	31 300	9,0
10,0	75,0	31,7	35 400	32 500	29 900	27 500	10,0
11,0	73,0	31,4	30 900	28 500	26 400	24 500	11,0
12,0	71,1	31,1	27 200	25 300	23 500	22 000	12,0
14,0	67,0	30,3	21 700	20 400	19 100	18 000	14,0
16,0	62,8	29,3	17 900	16 800	15 900	15 100	16,0
18,0	58,4	28,1	14 900	14 200	13 500	12 700	18,0
20,0	53,8	26,6	12 600	12 100	11 500	11 000	20,0
22,0	48,9	25,0	10 800	10 300	9 900	9 500	22,0
24,0	43,5	22,9	9 300	8 900	8 600	8 200	24,0
26,0	37,6	20,5	8 100	7 700	7 500	7 200	26,0
28,0	30,6	17,4	7 000	6 800	6 500	6 200	28,0
30,0	21,6	13,0	6 000	5 900	5 700	5 500	30,0
33,5m (110 Ft.) Boom							
6,7	82,2	35,6	64 400 b				6,7
7,0	81,7	35,6	60 500 b				7,0
8,0	79,9	35,4	49 100	43 600	39 000		8,0
9,0	78,2	35,2	41 300	37 100	33 600	30 600	9,0
10,0	76,4	34,9	35 400	32 200	29 400	26 900	10,0
11,0	74,6	34,6	30 800	28 200	26 000	24 000	11,0
12,0	72,8	34,3	27 200	25 100	23 200	21 500	12,0
14,0	69,2	33,6	21 700	20 200	18 900	17 700	14,0
16,0	65,5	32,7	17 800	16 700	15 700	14 800	16,0
18,0	61,6	31,6	14 900	14 100	13 300	12 600	18,0
20,0	57,6	30,4	12 600	12 000	11 400	10 800	20,0
22,0	53,4	29,0	10 800	10 300	9 800	9 300	22,0
24,0	48,9	27,3	9 300	8 900	8 500	8 100	24,0
26,0	44,1	25,3	8 100	7 700	7 400	7 000	26,0
28,0	38,8	22,9	7 000	6 700	6 400	6 100	28,0
30,0	32,7	20,0	6 100	5 800	5 600	5 400	30,0
32,0	25,4	16,2	5 300	5 100	4 900	4 700	32,0


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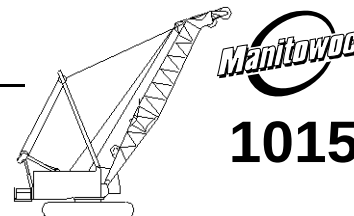
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
36,6m (120 Ft.) Boom							
6,7	82,8	38,7	64 400 b				6,7
7,0	82,4	38,7	60 400 b				7,0
8,0	80,8	38,5	49 000	43 100	38 300		8,0
9,0	79,2	38,3	41 200	36 700	32 900	29 800	9,0
10,0	77,6	38,1	35 200	31 800	28 800	26 300	10,0
11,0	76,0	37,8	30 700	27 900	25 500	23 400	11,0
12,0	74,3	37,5	27 000	24 700	22 800	21 000	12,0
14,0	71,0	36,8	21 500	19 900	18 500	17 200	14,0
16,0	67,6	36,0	17 600	16 500	15 400	14 400	16,0
18,0	64,2	35,1	14 700	13 800	12 900	12 200	18,0
20,0	60,6	34,0	12 500	11 700	11 100	10 400	20,0
22,0	56,9	32,7	10 600	10 000	9 500	9 000	22,0
24,0	53,0	31,3	9 100	8 700	8 200	7 800	24,0
26,0	48,9	29,6	7 900	7 500	7 100	6 800	26,0
28,0	44,5	27,6	6 800	6 500	6 200	5 900	28,0
30,0	39,7	25,3	5 900	5 600	5 300	5 100	30,0
32,0	34,4	22,5	5 100	4 900	4 700	4 400	32,0
34,0	28,1	19,1	4 400	4 200	4 000	3 800	34,0
36,0	20,0	14,3	3 700	3 600	3 500	3 300	36,0
39,6m (130 Ft.) Boom							
7,3	82,5	41,7	56 100				7,3
8,0	81,5	41,6	48 900	42 600			8,0
9,0	80,0	41,4	41 000	36 200	32 300		9,0
10,0	78,5	41,2	35 100	31 400	28 300	25 600	10,0
11,0	77,1	41,0	30 500	27 600	25 000	22 800	11,0
12,0	75,6	40,7	26 900	24 400	22 300	20 400	12,0
14,0	72,5	40,1	21 400	19 700	18 200	16 800	14,0
16,0	69,5	39,3	17 500	16 200	15 100	14 000	16,0
18,0	66,3	38,5	14 600	13 600	12 700	11 800	18,0
20,0	63,1	37,5	12 300	11 500	10 800	10 100	20,0
22,0	59,8	36,3	10 500	9 800	9 300	8 700	22,0
24,0	56,3	35,0	9 000	8 400	8 000	7 500	24,0
26,0	52,7	33,6	7 700	7 300	6 900	6 500	26,0
28,0	48,9	31,9	6 600	6 300	6 000	5 600	28,0
30,0	44,9	29,9	5 800	5 500	5 200	4 900	30,0
32,0	40,5	27,7	5 000	4 700	4 400	4 200	32,0
34,0	35,7	25,0	4 300	4 100	3 800	3 600	34,0
36,0	30,2	21,8	3 700	3 500	3 300	3 100	36,0
38,0	23,6	17,6	3 100	2 900	2 800	2 600	38,0



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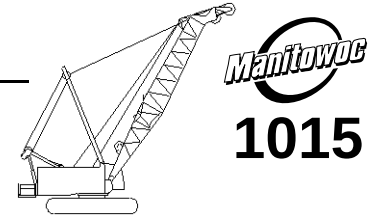
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42,7m (140 Ft.) Boom							
7,3	83,0	44,8	56 000				7,3
8,0	82,1	44,7	48 800				8,0
9,0	80,7	44,5	40 900	35 900			9,0
10,0	79,4	44,3	35 000	31 000	27 700	24 900	10,0
11,0	78,0	44,1	30 400	27 200	24 500	22 200	11,0
12,0	76,6	43,8	26 700	24 100	21 900	19 900	12,0
14,0	73,8	43,3	21 200	19 400	17 800	16 300	14,0
16,0	71,0	42,6	17 300	15 900	14 700	13 600	16,0
18,0	68,1	41,8	14 400	13 300	12 400	11 500	18,0
20,0	65,2	40,9	12 100	11 200	10 500	9 800	20,0
22,0	62,1	39,9	10 300	9 600	9 000	8 400	22,0
24,0	59,0	38,7	8 800	8 200	7 700	7 200	24,0
26,0	55,8	37,4	7 500	7 100	6 600	6 200	26,0
28,0	52,4	35,9	6 500	6 100	5 700	5 300	28,0
30,0	48,9	34,2	5 600	5 200	4 900	4 600	30,0
32,0	45,2	32,2	4 800	4 500	4 200	3 900	32,0
34,0	41,2	30,0	4 100	3 800	3 600	3 400	34,0
36,0	36,8	27,5	3 500	3 300	3 100	2 800	36,0
38,0	31,9	24,4	2 900	2 700	2 600	2 400	38,0
40,0	26,2	20,7	2 400	2 200	2 100		40,0
42,0	18,9	15,6	1 900				42,0
45,7m (150 Ft.) Boom							
7,9	82,7	47,8	49 400				7,9
8,0	82,6	47,7	48 700				8,0
9,0	81,4	47,6	40 800	35 500			9,0
10,0	80,1	47,4	34 800	30 700	27 200		10,0
11,0	78,8	47,2	30 300	26 900	24 100	21 700	11,0
12,0	77,5	47,0	26 600	23 800	21 500	19 400	12,0
14,0	74,9	46,5	21 100	19 100	17 500	15 900	14,0
16,0	72,3	45,8	17 200	15 700	14 500	13 300	16,0
18,0	69,6	45,1	14 300	13 200	12 100	11 200	18,0
20,0	66,9	44,3	12 000	11 100	10 300	9 500	20,0
22,0	64,2	43,3	10 200	9 500	8 800	8 100	22,0
24,0	61,3	42,2	8 700	8 100	7 500	7 000	24,0
26,0	58,4	41,0	7 400	6 900	6 400	6 000	26,0
28,0	55,4	39,7	6 400	5 900	5 600	5 200	28,0
30,0	52,2	38,2	5 500	5 100	4 800	4 400	30,0
32,0	48,9	36,5	4 700	4 400	4 100	3 800	32,0
34,0	45,4	34,5	4 000	3 700	3 400	3 200	34,0
36,0	41,7	32,4	3 400	3 100	2 900	2 700	36,0
38,0	37,7	29,9	2 800	2 600	2 400	2 200	38,0
40,0	33,3	27,0	2 300	2 100			40,0


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48,8m (160 Ft.) Boom							
8,5	82,5	50,7	44 000				8,5
9,0	81,9	50,7	40 700				9,0
10,0	80,7	50,5	34 700	30 300	26 700		10,0
11,0	79,5	50,3	30 100	26 600	23 600	21 200	11,0
12,0	78,3	50,1	26 400	23 500	21 100	18 900	12,0
14,0	75,9	49,6	20 900	18 900	17 100	15 500	14,0
16,0	73,5	49,0	17 000	15 500	14 100	12 900	16,0
18,0	71,0	48,4	14 000	12 900	11 800	10 800	18,0
20,0	68,5	47,6	11 800	10 800	10 000	9 200	20,0
22,0	65,9	46,7	10 000	9 200	8 500	7 800	22,0
24,0	63,3	45,7	8 500	7 800	7 200	6 700	24,0
26,0	60,6	44,6	7 200	6 700	6 200	5 700	26,0
28,0	57,8	43,4	6 100	5 700	5 300	4 800	28,0
30,0	55,0	42,0	5 300	4 900	4 500	4 100	30,0
32,0	52,0	40,5	4 500	4 100	3 800	3 500	32,0
34,0	48,9	38,8	3 800	3 500	3 200	2 900	34,0
36,0	45,7	36,9	3 200	2 900	2 700	2 400	36,0
38,0	42,2	34,7	2 600	2 400	2 200	2 000	38,0
40,0	38,5	32,3	2 100				40,0
51,8m (170 Ft.) Boom							
8,5	82,9	53,8	43 900				8,5
9,0	82,4	53,8	40 600				9,0
10,0	81,3	53,6	34 500	29 900			10,0
11,0	80,1	53,4	30 000	26 200	23 100		11,0
12,0	79,0	53,2	26 300	23 200	20 600	18 400	12,0
14,0	76,8	52,8	20 700	18 600	16 700	15 100	14,0
16,0	74,5	52,2	16 800	15 200	13 800	12 500	16,0
18,0	72,1	51,6	13 900	12 600	11 500	10 500	18,0
20,0	69,8	50,9	11 600	10 600	9 700	8 900	20,0
22,0	67,4	50,0	9 800	9 000	8 200	7 500	22,0
24,0	65,0	49,1	8 300	7 600	7 000	6 400	24,0
26,0	62,5	48,1	7 000	6 500	5 900	5 400	26,0
28,0	59,9	47,0	6 000	5 500	5 000	4 600	28,0
30,0	57,3	45,7	5 100	4 700	4 300	3 900	30,0
32,0	54,6	44,3	4 300	3 900	3 600	3 300	32,0
34,0	51,8	42,8	3 600	3 300	3 000	2 700	34,0
36,0	48,9	41,1	3 000	2 700	2 400	2 200	36,0
38,0	45,9	39,2	2 400	2 200	2 000		38,0



Liftcrane Boom Capacities

Boom No. 83A

24 040 kg Counterweight

7 163 mm Crawlers Extended

Crawler Machine on a Barge

0 Degree thru 3 Degree Machine List

No Travel - 360 Degree Rating

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms
54,9m (180 Ft.) Boom				
9,1	82,7	56,8	39 400	
10,0	81,8	56,7	34 400	29 600
11,0	80,7	56,5	29 800	25 900
12,0	79,6	56,3	26 100	22 900
14,0	77,5	55,9	20 600	18 300
16,0	75,3	55,4	16 600	14 900
18,0	73,2	54,8	13 700	12 400
20,0	71,0	54,1	11 400	10 300
22,0	68,7	53,3	9 600	8 700
24,0	66,5	52,5	8 100	7 400
26,0	64,1	51,5	6 800	6 200
28,0	61,8	50,5	5 700	5 300
30,0	59,4	49,3	4 900	4 400
32,0	56,9	48,0	4 100	3 700
34,0	54,3	46,6	3 400	3 000
36,0	51,7	45,1	2 700	2 500
38,0	48,9	43,4	2 200	2 000

Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms
57,9m (190 Ft.) Boom			
9,8	82,4	59,8	29 900 *
10,0	82,2	59,8	29 900 *
11,0	81,2	59,6	29 700
12,0	80,2	59,4	25 900
14,0	78,2	59,0	20 400
16,0	76,1	58,5	16 500
18,0	74,1	58,0	13 600
20,0	72,0	57,3	11 200
22,0	69,9	56,6	9 400
24,0	67,8	55,8	7 900
26,0	65,6	54,9	6 700
28,0	63,4	53,9	5 600
30,0	61,1	52,9	4 700
32,0	58,8	51,7	3 900
34,0	56,5	50,4	3 200
36,0	54,0	48,9	2 600
38,0	51,5	47,4	2 100