



Liftcrane Boom Extended Upper Point Capacities

Boom No. 58 HL with 7,0 m Extended
Upper Boom Point
101 600 kg Crane Counterweight
0 kg Carbody Counterweight
Crawler Machine on a Barge
0 Degree thru 3 Degree Static Machine List
No Travel - 360 Degree Rating - Two Swing Drives



16000 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 (*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 13 610 kg. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath upper boom point sheaves, is considered part of extended upper boom point 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. Refer to boom rigging **No. A10415**, Wire Rope Specification chart **No. 8674-B**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-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: Boom angle in degrees ($^{\circ}$) 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.

EXTENDED UPPER BOOM POINT ELEVATION: Extended upper boom point elevation is vertical distance from barge deck to centerline of extended upper boom point (lower sheave) shaft.

MACHINE EQUIPMENT: Machine equipped with two swing drives, 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, 101 600 kg crane counterweight and 0 kg carbody counterweight.

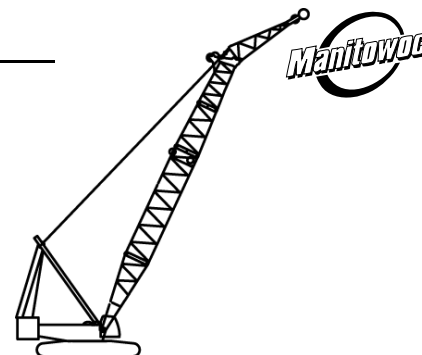
Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Crawlers
	Boom Length	Boom Length
0 Degree	72,0 m	66,0 m
1 Degree	72,0 m	66,0 m
2 Degree	72,0 m	66,0 m
3 Degree	72,0 m	66,0 m
Load block, hook and weight ball on barge deck at start.		

Lower boom point must be removed when extended upper boom point is attached.

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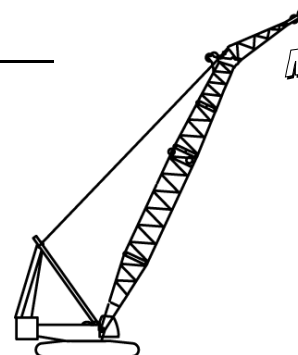
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
42,0 m							
13,7	80,5	50,0	97 600 *	86 900 *	82 700 *		13,7
14,0	80,2	49,9	97 500	86 900 *	82 500		14,0
16,0	77,7	49,3	92 000	82 200	77 700	68 700	16,0
18,0	75,3	48,7	75 400	70 200	65 200	61 100	18,0
20,0	72,7	47,9	64 400	60 300	56 400	52 900	20,0
22,0	70,2	47,0	55 800	52 500	49 400	46 600	22,0
24,0	67,6	46,1	48 900	46 200	43 700	41 400	24,0
26,0	64,9	45,0	43 200	41 000	38 900	37 000	26,0
28,0	62,2	43,7	38 500	36 600	34 900	33 200	28,0
30,0	59,3	42,4	34 400	32 900	31 400	30 000	30,0
32,0	56,4	40,9	30 900	29 600	28 400	27 100	32,0
34,0	53,3	39,2	27 900	26 800	25 700	24 600	34,0
36,0	50,1	37,3	25 300	24 300	23 300	22 400	36,0
38,0	46,7	35,2	22 900	22 100	21 200	20 400	38,0
40,0	43,0	32,8	20 800	20 000	19 300	18 600	40,0
42,0	39,0	30,0	18 800	18 200	17 600	17 000	42,0



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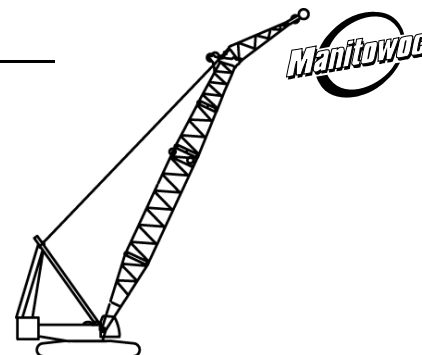
16000 SERIES 1

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
48,0 m							
13,7	81,6	56,1	97 600 *	89 800 *			13,7
14,0	81,3	56,1	97 400	89 400			14,0
16,0	79,1	55,6	91 900	83 300	75 000	66 300	16,0
18,0	76,9	55,0	75 200	69 200	63 800	59 400	18,0
20,0	74,7	54,3	64 200	59 500	55 200	51 400	20,0
22,0	72,5	53,5	55 500	51 800	48 300	45 200	22,0
24,0	70,2	52,7	48 500	45 500	42 700	40 100	24,0
26,0	67,9	51,8	42 800	40 300	38 000	35 800	26,0
28,0	65,6	50,7	38 000	36 000	34 000	32 100	28,0
30,0	63,1	49,5	34 000	32 200	30 600	29 000	30,0
32,0	60,7	48,3	30 500	29 000	27 500	26 200	32,0
34,0	58,1	46,9	27 500	26 200	24 900	23 700	34,0
36,0	55,5	45,3	24 800	23 700	22 600	21 500	36,0
38,0	52,7	43,6	22 500	21 500	20 500	19 500	38,0
40,0	49,9	41,8	20 300	19 500	18 600	17 800	40,0
42,0	46,9	39,7	18 500	17 700	16 900	16 200	42,0
44,0	43,7	37,4	16 700	16 100	15 400	14 800	44,0
46,0	40,2	34,8	15 200	14 600	14 000	13 400	46,0

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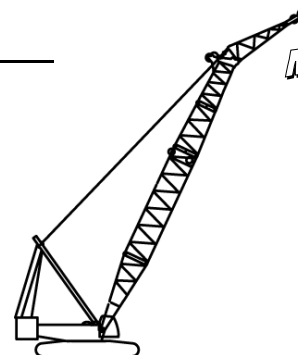
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
54,0 m							
13,7	82,4	62,3	97 600 *				13,7
14,0	82,2	62,2	97 400				14,0
16,0	80,2	61,8	91 800	81 200	73 100		16,0
18,0	78,3	61,2	75 100	68 400	62 600	57 500	18,0
20,0	76,3	60,6	64 000	58 800	54 200	50 100	20,0
22,0	74,3	60,0	55 300	51 100	47 400	44 000	22,0
24,0	72,3	59,2	48 300	45 000	41 900	39 100	24,0
26,0	70,3	58,4	42 600	39 800	37 200	34 800	26,0
28,0	68,2	57,4	37 800	35 500	33 300	31 200	28,0
30,0	66,1	56,4	33 700	31 700	29 900	28 100	30,0
32,0	63,9	55,3	30 300	28 500	26 900	25 400	32,0
34,0	61,7	54,1	27 200	25 700	24 300	23 000	34,0
36,0	59,5	52,8	24 500	23 300	22 000	20 800	36,0
38,0	57,1	51,3	22 200	21 100	20 000	18 900	38,0
40,0	54,7	49,8	20 100	19 100	18 100	17 200	40,0
42,0	52,3	48,1	18 200	17 300	16 400	15 600	42,0
44,0	49,7	46,2	16 500	15 700	14 900	14 200	44,0
46,0	47,0	44,2	14 900	14 200	13 600	12 900	46,0
48,0	44,2	41,9	13 500	12 900	12 300	11 700	48,0
50,0	41,1	39,4	12 200	11 600	11 100	10 500	50,0
52,0	37,9	36,6	11 000	10 500	10 000	9 500	52,0



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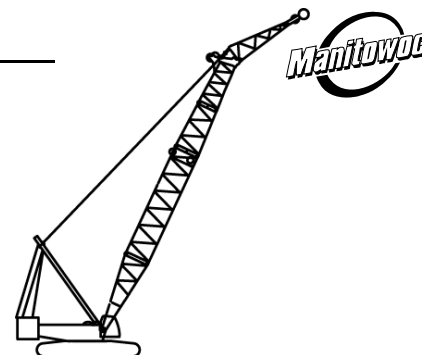
16000 SERIES 1

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
60,0 m							
15,2	81,8	68,1	96 600	85 600			15,2
16,0	81,1	67,9	90 100	80 200			16,0
18,0	79,4	67,4	74 800	67 500	61 300		18,0
20,0	77,6	66,9	63 600	58 000	53 000	48 500	20,0
22,0	75,8	66,3	54 900	50 400	46 300	42 700	22,0
24,0	74,0	65,6	47 900	44 200	40 900	37 800	24,0
26,0	72,1	64,8	42 100	39 100	36 200	33 700	26,0
28,0	70,3	64,0	37 300	34 800	32 300	30 100	28,0
30,0	68,4	63,1	33 200	31 000	29 000	27 100	30,0
32,0	66,5	62,1	29 700	27 900	26 000	24 400	32,0
34,0	64,5	61,1	26 700	25 000	23 500	22 000	34,0
36,0	62,6	59,9	24 000	22 600	21 200	19 900	36,0
38,0	60,5	58,7	21 700	20 400	19 100	18 000	38,0
40,0	58,5	57,3	19 500	18 400	17 300	16 300	40,0
42,0	56,3	55,8	17 600	16 600	15 600	14 700	42,0
44,0	54,2	54,2	15 900	15 000	14 200	13 300	44,0
46,0	51,9	52,5	14 300	13 600	12 800	12 000	46,0
48,0	49,6	50,7	12 900	12 200	11 500	10 900	48,0
50,0	47,1	48,7	11 600	11 000	10 400	9 800	50,0
52,0	44,6	46,5	10 500	9 900	9 300	8 800	52,0
54,0	41,9	44,0	9 300	8 800	8 300	7 800	54,0
56,0	39,0	41,4	8 300	7 800	7 400	6 900	56,0

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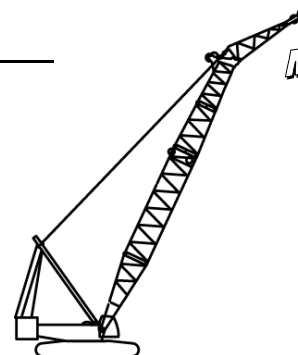
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66,0 m							
15,2	82,5	74,2	96 500				15,2
16,0	81,9	74,0	89 900				16,0
18,0	80,2	73,6	74 500	66 800			18,0
20,0	78,6	73,1	63 300	57 200	51 800	47 200	20,0
22,0	77,0	72,5	54 600	49 700	45 300	41 400	22,0
24,0	75,3	71,9	47 500	43 500	39 900	36 700	24,0
26,0	73,7	71,2	41 800	38 400	35 400	32 700	26,0
28,0	72,0	70,5	36 900	34 100	31 500	29 200	28,0
30,0	70,3	69,7	32 900	30 400	28 200	26 100	30,0
32,0	68,6	68,8	29 300	27 300	25 300	23 500	32,0
34,0	66,8	67,8	26 300	24 500	22 800	21 200	34,0
36,0	65,1	66,8	23 600	22 000	20 500	19 100	36,0
38,0	63,3	65,7	21 200	19 800	18 500	17 200	38,0
40,0	61,4	64,5	19 100	17 900	16 700	15 600	40,0
42,0	59,6	63,2	17 200	16 100	15 000	14 000	42,0
44,0	57,6	61,8	15 500	14 500	13 600	12 600	44,0
46,0	55,7	60,3	13 900	13 000	12 200	11 300	46,0
48,0	53,7	58,7	12 500	11 700	11 000	10 200	48,0
50,0	51,6	57,0	11 200	10 500	9 800	9 100	50,0
52,0	49,4	55,1	10 000	9 400	8 700	8 100	52,0
54,0	47,2	53,1	8 900	8 300	7 700	7 200	54,0
56,0	44,9	51,0	7 900	7 400	6 800	6 300	56,0
58,0	42,5	48,6	6 900	6 500	6 000	5 500	58,0
60,0	39,9	46,0	6 100	5 600	5 200	4 700	60,0
62,0	37,2	43,2	5 200	4 900	4 400	4 000	62,0



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72,0 m							
16,8	81,9	80,0	83 000	72 800			16,8
18,0	81,0	79,7	74 400	65 900			18,0
20,0	79,5	79,3	63 000	56 400	50 600	45 700	20,0
22,0	78,0	78,8	54 200	48 800	44 200	40 100	22,0
24,0	76,5	78,2	47 100	42 700	38 900	35 400	24,0
26,0	75,0	77,6	41 300	37 700	34 400	31 500	26,0
28,0	73,4	76,9	36 400	33 400	30 600	28 100	28,0
30,0	71,9	76,1	32 300	29 700	27 300	25 100	30,0
32,0	70,3	75,3	28 800	26 500	24 400	22 500	32,0
34,0	68,7	74,5	25 700	23 700	21 900	20 200	34,0
36,0	67,1	73,5	23 000	21 300	19 600	18 100	36,0
38,0	65,5	72,5	20 600	19 100	17 600	16 300	38,0
40,0	63,8	71,4	18 500	17 100	15 900	14 600	40,0
42,0	62,2	70,3	16 600	15 400	14 200	13 100	42,0
44,0	60,5	69,0	14 900	13 800	12 700	11 700	44,0
46,0	58,7	67,7	13 300	12 400	11 400	10 500	46,0
48,0	56,9	66,3	11 900	11 000	10 200	9 300	48,0
50,0	55,1	64,8	10 600	9 800	9 000	8 300	50,0
52,0	53,2	63,2	9 400	8 700	8 000	7 300	52,0
54,0	51,3	61,5	8 300	7 600	7 000	6 400	54,0
56,0	49,3	59,6	7 300	6 700	6 100	5 500	56,0
58,0	47,3	57,6	6 400	5 800	5 200	4 700	58,0
60,0	45,2	55,5	5 500	4 900	4 400	4 000	60,0
62,0	42,9	53,2	4 600	4 200	3 700		62,0
64,0	40,6	50,7	3 900	3 400			64,0