



Liftcrane Boom

Extended Upper Point Capacities

Boom No. 58 HL with 7,0 m Extended
Upper Boom Point
134 260 kg Crane Counterweight
27 220 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 2

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.

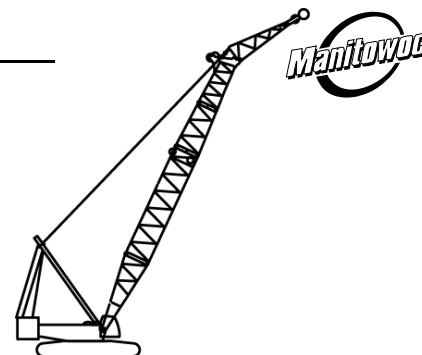
MACHINE EQUIPMENT: Machine equipped with two swing drives, 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, 134 260 kg crane counterweight, and two 13 610 kg carbody counterweights.

Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Crawlers
	Boom Length	Boom Length
0 Degree	84,0 m	78,0 m
1 Degree	84,0 m	78,0 m
2 Degree	84,0 m	78,0 m
3 Degree	84,0 m	78,0 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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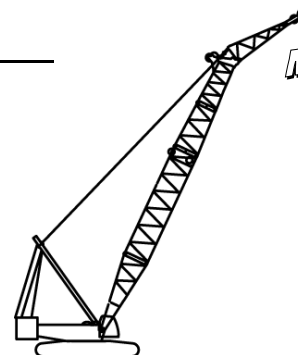
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
42,0 m							
13,7	80,5	50,0	97 600 *	86 900 *	82 700 *		13,7
14,0	80,2	49,9	97 600 *	86 900 *	82 700 *		14,0
16,0	77,7	49,3	97 600 *	86 900 *	82 700 *	70 700 *	16,0
18,0	75,3	48,7	96 100	86 300 *	82 700 *	70 700 *	18,0
20,0	72,7	47,9	84 100	79 000	74 100	70 100	20,0
22,0	70,2	47,0	73 300	69 200	65 300	61 800	22,0
24,0	67,6	46,1	64 700	61 300	58 200	55 200	24,0
26,0	64,9	45,0	57 600	54 800	52 200	49 700	26,0
28,0	62,2	43,7	51 700	49 300	47 100	45 000	28,0
30,0	59,3	42,4	46 600	44 600	42 800	41 000	30,0
32,0	56,4	40,9	42 200	40 600	39 000	37 500	32,0
34,0	53,3	39,2	38 500	37 100	35 700	34 400	34,0
36,0	50,1	37,3	35 100	33 900	32 800	31 600	36,0
38,0	46,7	35,2	32 200	31 200	30 100	29 100	38,0
40,0	43,0	32,8	29 500	28 700	27 800	26 900	40,0
42,0	39,0	30,0	27 200	26 400	25 700	24 900	42,0



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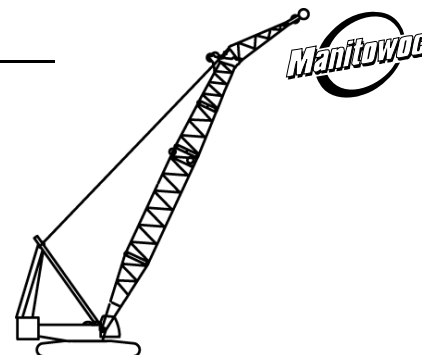
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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
48,0 m							
13,7	81,6	56,1	97 600 *	89 800 *			13,7
14,0	81,3	56,1	97 600 *	89 800 *			14,0
16,0	79,1	55,6	97 600 *	89 800 *	81 500 *	67 900 *	16,0
18,0	76,9	55,0	95 800	88 500	81 500 *	67 900 *	18,0
20,0	74,7	54,3	83 800	78 000	72 700	67 300	20,0
22,0	72,5	53,5	73 000	68 300	64 000	60 200	22,0
24,0	70,2	52,7	64 300	60 500	57 000	53 800	24,0
26,0	67,9	51,8	57 200	54 100	51 100	48 400	26,0
28,0	65,6	50,7	51 200	48 600	46 100	43 800	28,0
30,0	63,1	49,5	46 200	44 000	41 800	39 800	30,0
32,0	60,7	48,3	41 800	39 900	38 100	36 400	32,0
34,0	58,1	46,9	38 100	36 400	34 800	33 300	34,0
36,0	55,5	45,3	34 700	33 300	31 900	30 600	36,0
38,0	52,7	43,6	31 800	30 600	29 300	28 100	38,0
40,0	49,9	41,8	29 100	28 100	27 000	26 000	40,0
42,0	46,9	39,7	26 800	25 800	24 900	24 000	42,0
44,0	43,7	37,4	24 700	23 800	23 000	22 200	44,0
46,0	40,2	34,8	22 700	22 000	21 300	20 500	46,0

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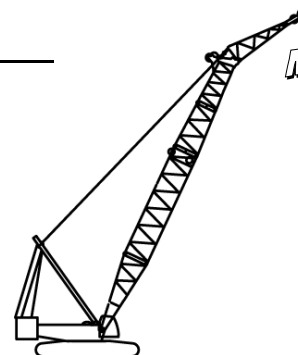
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
54,0 m							
13,7	82,4	62,3	97 600 *				13,7
14,0	82,2	62,2	97 600 *				14,0
16,0	80,2	61,8	97 600 *	93 500 *	77 400 *		16,0
18,0	78,3	61,2	95 700	88 400	77 300 *	64 900 *	18,0
20,0	76,3	60,6	83 600	77 200	71 600	64 500	20,0
22,0	74,3	60,0	72 800	67 600	63 000	59 000	22,0
24,0	72,3	59,2	64 100	59 900	56 000	52 500	24,0
26,0	70,3	58,4	56 900	53 500	50 200	47 300	26,0
28,0	68,2	57,4	51 000	48 000	45 300	42 700	28,0
30,0	66,1	56,4	45 900	43 400	41 100	38 900	30,0
32,0	63,9	55,3	41 600	39 400	37 400	35 500	32,0
34,0	61,7	54,1	37 700	35 900	34 100	32 500	34,0
36,0	59,5	52,8	34 400	32 800	31 300	29 800	36,0
38,0	57,1	51,3	31 500	30 100	28 700	27 400	38,0
40,0	54,7	49,8	28 900	27 600	26 400	25 200	40,0
42,0	52,3	48,1	26 500	25 400	24 400	23 300	42,0
44,0	49,7	46,2	24 400	23 400	22 500	21 500	44,0
46,0	47,0	44,2	22 500	21 600	20 800	19 900	46,0
48,0	44,2	41,9	20 700	19 900	19 200	18 500	48,0
50,0	41,1	39,4	19 100	18 400	17 700	17 100	50,0
52,0	37,9	36,6	17 600	17 000	16 400	15 800	52,0



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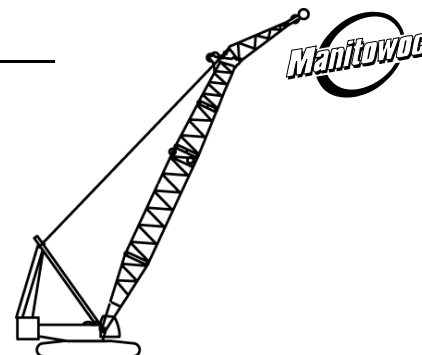
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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
60,0 m							
15,2	81,8	68,1	97 600 *	90 100 *			15,2
16,0	81,1	67,9	97 600 *	90 000 *			16,0
18,0	79,4	67,4	95 500	87 200	73 400 *		18,0
20,0	77,6	66,9	83 300	76 200	70 300	61 600	20,0
22,0	75,8	66,3	72 400	66 700	61 700	57 600	22,0
24,0	74,0	65,6	63 700	59 100	54 900	51 100	24,0
26,0	72,1	64,8	56 500	52 700	49 100	45 900	26,0
28,0	70,3	64,0	50 500	47 300	44 300	41 500	28,0
30,0	68,4	63,1	45 400	42 700	40 100	37 700	30,0
32,0	66,5	62,1	41 100	38 600	36 400	34 300	32,0
34,0	64,5	61,1	37 200	35 200	33 200	31 400	34,0
36,0	62,6	59,9	33 900	32 100	30 400	28 800	36,0
38,0	60,5	58,7	31 000	29 400	27 800	26 400	38,0
40,0	58,5	57,3	28 300	26 900	25 600	24 300	40,0
42,0	56,3	55,8	26 000	24 700	23 500	22 400	42,0
44,0	54,2	54,2	23 900	22 700	21 700	20 600	44,0
46,0	51,9	52,5	21 900	20 900	19 900	19 000	46,0
48,0	49,6	50,7	20 200	19 300	18 400	17 500	48,0
50,0	47,1	48,7	18 600	17 800	17 000	16 200	50,0
52,0	44,6	46,5	17 100	16 300	15 600	14 900	52,0
54,0	41,9	44,0	15 700	15 000	14 400	13 800	54,0
56,0	39,0	41,4	14 400	13 800	13 300	12 700	56,0

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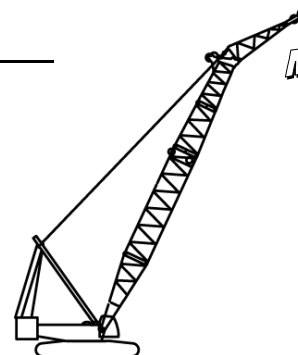
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
66,0 m							
15,2	82,5	74,2	97 600 *				15,2
16,0	81,9	74,0	97 600 *				16,0
18,0	80,2	73,6	95 300	83 500 *			18,0
20,0	78,6	73,1	83 000	75 400	68 400	58 400	20,0
22,0	77,0	72,5	72 100	65 900	60 600	56 300	22,0
24,0	75,3	71,9	63 300	58 300	53 800	49 800	24,0
26,0	73,7	71,2	56 100	52 000	48 200	44 700	26,0
28,0	72,0	70,5	50 100	46 600	43 400	40 400	28,0
30,0	70,3	69,7	45 000	42 000	39 200	36 700	30,0
32,0	68,6	68,8	40 600	38 100	35 600	33 400	32,0
34,0	66,8	67,8	36 800	34 600	32 400	30 500	34,0
36,0	65,1	66,8	33 500	31 500	29 600	27 900	36,0
38,0	63,3	65,7	30 600	28 800	27 100	25 600	38,0
40,0	61,4	64,5	27 900	26 400	24 900	23 500	40,0
42,0	59,6	63,2	25 600	24 200	22 800	21 600	42,0
44,0	57,6	61,8	23 500	22 200	21 000	19 800	44,0
46,0	55,7	60,3	21 500	20 400	19 300	18 300	46,0
48,0	53,7	58,7	19 800	18 800	17 700	16 800	48,0
50,0	51,6	57,0	18 100	17 200	16 300	15 500	50,0
52,0	49,4	55,1	16 600	15 800	15 000	14 300	52,0
54,0	47,2	53,1	15 300	14 500	13 800	13 100	54,0
56,0	44,9	51,0	14 000	13 400	12 700	12 000	56,0
58,0	42,5	48,6	12 800	12 200	11 700	11 000	58,0
60,0	39,9	46,0	11 800	11 200	10 700	10 100	60,0
62,0	37,2	43,2	10 700	10 200	9 700	9 200	62,0



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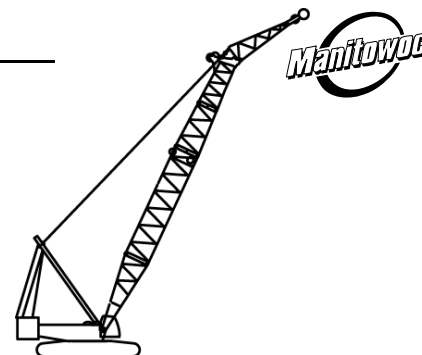
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Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
72,0 m							
16,8	81,9	80,0	97 600 *	79 000 *			16,8
18,0	81,0	79,7	95 000	78 300 *			18,0
20,0	79,5	79,3	82 600	74 700	64 000	53 100 *	20,0
22,0	78,0	78,8	71 600	65 000	59 700	52 400	22,0
24,0	76,5	78,2	62 900	57 400	52 600	48 700	24,0
26,0	75,0	77,6	55 600	51 100	47 100	43 400	26,0
28,0	73,4	76,9	49 600	45 800	42 300	39 200	28,0
30,0	71,9	76,1	44 500	41 200	38 200	35 500	30,0
32,0	70,3	75,3	40 100	37 300	34 700	32 300	32,0
34,0	68,7	74,5	36 200	33 800	31 500	29 400	34,0
36,0	67,1	73,5	32 900	30 700	28 700	26 900	36,0
38,0	65,5	72,5	29 900	28 100	26 200	24 600	38,0
40,0	63,8	71,4	27 300	25 600	24 000	22 500	40,0
42,0	62,2	70,3	25 000	23 400	22 000	20 600	42,0
44,0	60,5	69,0	22 800	21 500	20 100	18 900	44,0
46,0	58,7	67,7	20 900	19 700	18 500	17 300	46,0
48,0	56,9	66,3	19 100	18 000	16 900	15 900	48,0
50,0	55,1	64,8	17 500	16 500	15 500	14 600	50,0
52,0	53,2	63,2	16 000	15 100	14 200	13 400	52,0
54,0	51,3	61,5	14 700	13 800	13 000	12 200	54,0
56,0	49,3	59,6	13 400	12 600	11 900	11 200	56,0
58,0	47,3	57,6	12 200	11 500	10 800	10 200	58,0
60,0	45,2	55,5	11 100	10 500	9 900	9 300	60,0
62,0	42,9	53,2	10 100	9 500	9 000	8 400	62,0
64,0	40,6	50,7	9 200	8 600	8 100	7 600	64,0
66,0	38,2	48,0	8 200	7 700	7 300	6 800	66,0

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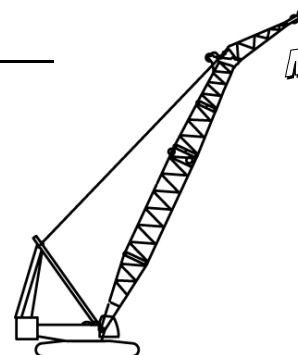
Oper. Radius Meters	Boom Angle Deg.	Boom Point Elev. Meters	0 Degree List Boom Capacity Kilograms	1 Degree List Boom Capacity Kilograms	2 Degree List Boom Capacity Kilograms	3 Degree List Boom Capacity Kilograms	Oper. Radius Meters
78,0 m							
16,8	82,5	86,1	91 300 *				16,8
18,0	81,7	85,8	89 600 *				18,0
20,0	80,3	85,4	82 600	66 900 *	53 300 *		20,0
22,0	78,9	84,9	71 300	64 700	52 900 *	43 300 *	22,0
24,0	77,5	84,4	62 400	56 700	51 200	43 000 *	24,0
26,0	76,1	83,8	55 200	50 400	46 000	42 200	26,0
28,0	74,7	83,2	49 100	45 100	41 300	38 000	28,0
30,0	73,2	82,5	44 000	40 500	37 300	34 400	30,0
32,0	71,8	81,8	39 600	36 600	33 700	31 200	32,0
34,0	70,3	81,0	35 700	33 100	30 600	28 400	34,0
36,0	68,9	80,1	32 400	30 100	27 900	25 900	36,0
38,0	67,4	79,2	29 400	27 400	25 400	23 600	38,0
40,0	65,9	78,2	26 800	25 000	23 200	21 600	40,0
42,0	64,3	77,2	24 400	22 800	21 200	19 700	42,0
44,0	62,8	76,1	22 300	20 800	19 400	18 000	44,0
46,0	61,2	74,9	20 300	19 000	17 700	16 500	46,0
48,0	59,6	73,6	18 600	17 400	16 200	15 100	48,0
50,0	58,0	72,2	17 000	15 900	14 800	13 800	50,0
52,0	56,3	70,8	15 500	14 500	13 500	12 500	52,0
54,0	54,6	69,3	14 100	13 200	12 300	11 400	54,0
56,0	52,9	67,6	12 800	12 000	11 200	10 400	56,0
58,0	51,1	65,9	11 600	10 900	10 200	9 400	58,0
60,0	49,3	64,1	10 600	9 900	9 200	8 500	60,0
62,0	47,4	62,1	9 500	8 900	8 200	7 600	62,0
64,0	45,4	60,0	8 600	8 000	7 400	6 800	64,0
66,0	43,4	57,7	7 700	7 100	6 600	6 100	66,0
68,0	41,2	55,3	6 900	6 300	5 800	5 300	68,0
70,0	39,0	52,7	6 000	5 600	5 100	4 700	70,0
72,0	36,6	49,8	5 300	4 900	4 500	4 000	72,0



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84,0 m							
16,8	83,0	92,2	87 800 *				16,8
18,0	82,2	91,9	86 500 *				18,0
20,0	80,9	91,6	82 400	57 000 *			20,0
22,0	79,6	91,1	70 900	56 500 *	44 500 *		22,0
24,0	78,3	90,6	62 000	55 000	44 100 *	35 700 *	24,0
26,0	77,0	90,1	54 700	49 500	43 800	35 500 *	26,0
28,0	75,7	89,5	48 600	44 200	40 500	35 200	28,0
30,0	74,4	88,9	43 400	39 700	36 300	33 500	30,0
32,0	73,1	88,2	39 000	35 700	32 800	30 100	32,0
34,0	71,7	87,4	35 200	32 300	29 700	27 300	34,0
36,0	70,3	86,7	31 800	29 300	26 900	24 800	36,0
38,0	69,0	85,8	28 800	26 600	24 500	22 600	38,0
40,0	67,6	84,9	26 100	24 200	22 300	20 600	40,0
42,0	66,2	83,9	23 800	22 000	20 300	18 700	42,0
44,0	64,8	82,9	21 600	20 000	18 500	17 100	44,0
46,0	63,3	81,8	19 700	18 300	16 900	15 600	46,0
48,0	61,9	80,7	17 900	16 600	15 300	14 100	48,0
50,0	60,4	79,4	16 300	15 100	13 900	12 800	50,0
52,0	58,9	78,1	14 800	13 700	12 700	11 600	52,0
54,0	57,4	76,8	13 400	12 400	11 400	10 500	54,0
56,0	55,8	75,3	12 200	11 200	10 400	9 500	56,0
58,0	54,2	73,7	11 000	10 200	9 300	8 500	58,0
60,0	52,6	72,1	9 900	9 100	8 400	7 600	60,0
62,0	50,9	70,4	8 900	8 200	7 500	6 800	62,0
64,0	49,2	68,5	7 900	7 300	6 600	6 000	64,0
66,0	47,4	66,6	7 000	6 400	5 800	5 200	66,0
68,0	45,6	64,5	6 200	5 600	5 100	4 500	68,0
70,0	43,7	62,3	5 400	4 800	4 300	3 800	70,0
72,0	41,7	59,9	4 600	4 100	3 600		72,0
74,0	39,7	57,3	3 900	3 500			74,0
76,0	37,5	54,6	3 200				76,0