



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
360 Degree Rating

16000 SERIES 1



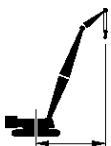
LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

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 in a level position on a firm uniformly supporting surface. 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, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's 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. 8683-B**.



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation 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 ground level to centerline of extended upper boom point (lower sheave) shaft.

MACHINE EQUIPMENT: Machine equipped with 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 Length Lifted Unassisted

Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
72,0 m	66,0 m
Load block, hook and weight ball on ground at start.	

Boom Catwalks Deduct

Deduct 300 kg from capacities when boom catwalks are attached.

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

Explanation of Symbols

58 HL  Boom No. 58 Heavy Lift Top
with 7,0 m Extended Upper
Boom Point

 Crane Counterweight
+
Carbody Counterweight

 360° 360 Degree Rating

 Operating Radius
(see page 1)

 Boom Angle
(see page 1)

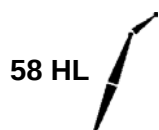
 Extended Upper
Boom Point Elevation
(see page 1)

 Lifting Capacities
(see page 1)

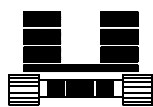
 Boom Length

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58 HL



101 600 kg
+
0 kg



360°

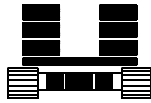
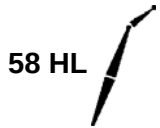
m	°	m	kg
42,0 m			
13,7	80,5	50,0	97 600 *
14,0	80,2	49,9	97 500
16,0	77,7	49,3	92 000
18,0	75,3	48,7	75 400
20,0	72,7	47,9	64 400
22,0	70,2	47,0	55 800
24,0	67,6	46,1	48 900
26,0	64,9	45,0	43 200
28,0	62,2	43,7	38 500
30,0	59,3	42,4	34 400
32,0	56,4	40,9	30 900
34,0	53,3	39,2	27 900
36,0	50,1	37,3	25 300
38,0	46,7	35,2	22 900
40,0	43,0	32,8	20 800
42,0	39,0	30,0	18 800

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

m	°	m	kg
54,0 m			
13,7	82,4	62,3	97 600 *
14,0	82,2	62,2	97 400
16,0	80,2	61,8	91 800
18,0	78,3	61,2	75 100
20,0	76,3	60,6	64 000
22,0	74,3	60,0	55 300
24,0	72,3	59,2	48 300
26,0	70,3	58,4	42 600
28,0	68,2	57,4	37 800
30,0	66,1	56,4	33 700
32,0	63,9	55,3	30 300
34,0	61,7	54,1	27 200
36,0	59,5	52,8	24 500
38,0	57,1	51,3	22 200
40,0	54,7	49,8	20 100
42,0	52,3	48,1	18 200
44,0	49,7	46,2	16 500
46,0	47,0	44,2	14 900
48,0	44,2	41,9	13 500
50,0	41,1	39,4	12 200
52,0	37,9	36,6	11 000

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101 600 kg
+
0 kg



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

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

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