



Liftcrane Boom

Extended Upper Point Capacities

Boom No. 58 HL with 7,0 m Extended
Upper Boom Point
150 590 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating

16000 SERIES 3



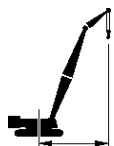
LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

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 (°) 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, 150 590 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

Maximum Boom Length Lifted Unassisted

Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
90,0 m	84,0 m
Load block, hook and weight ball on ground at start.	

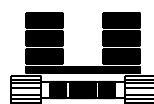
Boom Catwalks Deduct

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

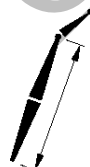
 360° 360 Degree Rating

 Operating Radius
(see page 1)

 Boom Angle
(see page 1)

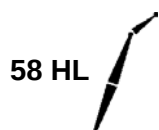
 Extended Upper
Boom Point Elevation
(see page 1)

 Lifting Capacities
(see page 1)

 Boom Length

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58 HL



150 590 kg
+
54 430 kg



360°

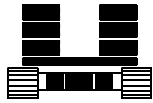
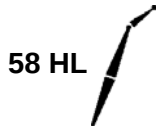
m	°	m	kg
13,7	80,5	50,0	97 600 *
14,0	80,2	49,9	97 600 *
16,0	77,7	49,3	97 600 *
18,0	75,3	48,7	97 600 *
20,0	72,7	47,9	96 700
22,0	70,2	47,0	84 000
24,0	67,6	46,1	74 300
26,0	64,9	45,0	66 300
28,0	62,2	43,7	59 700
30,0	59,3	42,4	54 000
32,0	56,4	40,9	49 200
34,0	53,3	39,2	44 900
36,0	50,1	37,3	41 200
38,0	46,7	35,2	37 900
40,0	43,0	32,8	35 000
42,0	39,0	30,0	32 300

m	°	m	kg
13,7	81,6	56,1	97 600 *
14,0	81,3	56,1	97 600 *
16,0	79,1	55,6	97 600 *
18,0	76,9	55,0	97 600 *
20,0	74,7	54,3	96 400
22,0	72,5	53,5	83 600
24,0	70,2	52,7	73 900
26,0	67,9	51,8	65 900
28,0	65,6	50,7	59 300
30,0	63,1	49,5	53 600
32,0	60,7	48,3	48 700
34,0	58,1	46,9	44 500
36,0	55,5	45,3	40 800
38,0	52,7	43,6	37 500
40,0	49,9	41,8	34 500
42,0	46,9	39,7	31 900
44,0	43,7	37,4	29 500
46,0	40,2	34,8	27 300

m	°	m	kg
13,7	82,4	62,3	97 600 *
14,0	82,2	62,2	97 600 *
16,0	80,2	61,8	97 600 *
18,0	78,3	61,2	97 600 *
20,0	76,3	60,6	96 200
22,0	74,3	60,0	83 400
24,0	72,3	59,2	73 700
26,0	70,3	58,4	65 700
28,0	68,2	57,4	59 000
30,0	66,1	56,4	53 300
32,0	63,9	55,3	48 400
34,0	61,7	54,1	44 200
36,0	59,5	52,8	40 500
38,0	57,1	51,3	37 200
40,0	54,7	49,8	34 300
42,0	52,3	48,1	31 600
44,0	49,7	46,2	29 200
46,0	47,0	44,2	27 100
48,0	44,2	41,9	25 100
50,0	41,1	39,4	23 300
52,0	37,9	36,6	21 700

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150 590 kg
+
54 430 kg



360°

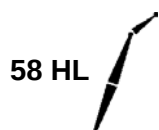
m	°	m	kg
60,0 m			
15,2	81,8	68,1	97 600 *
16,0	81,1	67,9	97 600 *
18,0	79,4	67,4	97 600 *
20,0	77,6	66,9	95 800
22,0	75,8	66,3	83 000
24,0	74,0	65,6	73 200
26,0	72,1	64,8	65 200
28,0	70,3	64,0	58 500
30,0	68,4	63,1	52 800
32,0	66,5	62,1	47 900
34,0	64,5	61,1	43 700
36,0	62,6	59,9	39 900
38,0	60,5	58,7	36 700
40,0	58,5	57,3	33 700
42,0	56,3	55,8	31 100
44,0	54,2	54,2	28 700
46,0	51,9	52,5	26 600
48,0	49,6	50,7	24 600
50,0	47,1	48,7	22 800
52,0	44,6	46,5	21 100
54,0	41,9	44,0	19 600
56,0	39,0	41,4	18 200

m	°	m	kg
66,0 m			
15,2	82,5	74,2	97 600 *
16,0	81,9	74,0	97 600 *
18,0	80,2	73,6	97 600 *
20,0	78,6	73,1	95 500
22,0	77,0	72,5	82 700
24,0	75,3	71,9	72 900
26,0	73,7	71,2	64 800
28,0	72,0	70,5	58 100
30,0	70,3	69,7	52 400
32,0	68,6	68,8	47 500
34,0	66,8	67,8	43 300
36,0	65,1	66,8	39 500
38,0	63,3	65,7	36 200
40,0	61,4	64,5	33 300
42,0	59,6	63,2	30 700
44,0	57,6	61,8	28 300
46,0	55,7	60,3	26 100
48,0	53,7	58,7	24 200
50,0	51,6	57,0	22 400
52,0	49,4	55,1	20 700
54,0	47,2	53,1	19 200
56,0	44,9	51,0	17 800
58,0	42,5	48,6	16 400
60,0	39,9	46,0	15 200
62,0	37,2	43,2	14 100

m	°	m	kg
72,0 m			
16,8	81,9	80,0	97 600 *
18,0	81,0	79,7	97 600 *
20,0	79,5	79,3	95 100
22,0	78,0	78,8	82 300
24,0	76,5	78,2	72 400
26,0	75,0	77,6	64 400
28,0	73,4	76,9	57 600
30,0	71,9	76,1	51 900
32,0	70,3	75,3	47 000
34,0	68,7	74,5	42 700
36,0	67,1	73,5	38 900
38,0	65,5	72,5	35 600
40,0	63,8	71,4	32 700
42,0	62,2	70,3	30 000
44,0	60,5	69,0	27 700
46,0	58,7	67,7	25 500
48,0	56,9	66,3	23 500
50,0	55,1	64,8	21 700
52,0	53,2	63,2	20 100
54,0	51,3	61,5	18 500
56,0	49,3	59,6	17 100
58,0	47,3	57,6	15 800
60,0	45,2	55,5	14 600
62,0	42,9	53,2	13 500
64,0	40,6	50,7	12 400
66,0	38,2	48,0	11 400

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58 HL



150 590 kg
+
54 430 kg



360°

m	°	m	kg
78,0 m			
16,8	82,5	86,1	91 300 *
18,0	81,7	85,8	89 600 *
20,0	80,3	85,4	87 100 *
22,0	78,9	84,9	82 700
24,0	77,5	84,4	72 000
26,0	76,1	83,8	63 900
28,0	74,7	83,2	57 100
30,0	73,2	82,5	51 400
32,0	71,8	81,8	46 500
34,0	70,3	81,0	42 200
36,0	68,9	80,1	38 400
38,0	67,4	79,2	35 100
40,0	65,9	78,2	32 200
42,0	64,3	77,2	29 500
44,0	62,8	76,1	27 100
46,0	61,2	74,9	24 900
48,0	59,6	73,6	23 000
50,0	58,0	72,2	21 200
52,0	56,3	70,8	19 500
54,0	54,6	69,3	18 000
56,0	52,9	67,6	16 600
58,0	51,1	65,9	15 300
60,0	49,3	64,1	14 000
62,0	47,4	62,1	12 900
64,0	45,4	60,0	11 800
66,0	43,4	57,7	10 800
68,0	41,2	55,3	9 900
70,0	39,0	52,7	9 000
72,0	36,6	49,8	8 100

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

m	°	m	kg
90,0 m			
18,3	82,5	98,0	76 400 *
20,0	81,5	97,7	74 600 *
22,0	80,3	97,3	72 500 *
24,0	79,1	96,8	70 100
26,0	77,9	96,3	63 000
28,0	76,6	95,8	56 100
30,0	75,4	95,2	50 300
32,0	74,1	94,5	45 400
34,0	72,9	93,8	41 100
36,0	71,6	93,1	37 300
38,0	70,4	92,3	33 900
40,0	69,1	91,5	31 000
42,0	67,8	90,6	28 300
44,0	66,5	89,6	25 900
46,0	65,1	88,6	23 700
48,0	63,8	87,6	21 800
50,0	62,4	86,4	20 000
52,0	61,1	85,2	18 300
54,0	59,7	84,0	16 800
56,0	58,2	82,7	15 400
58,0	56,8	81,3	14 000
60,0	55,3	79,8	12 800
62,0	53,8	78,2	11 700
64,0	52,3	76,6	10 600
66,0	50,7	74,8	9 600
68,0	49,1	73,0	8 700
70,0	47,5	71,1	7 800
72,0	45,8	69,0	7 000
74,0	44,0	66,8	6 100
76,0	42,2	64,5	5 400
78,0	40,3	62,0	4 700
80,0	38,3	59,3	4 000
82,0	36,2	56,4	3 400