



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
Rating Over End of Blocked Crawlers
No Travel - Limited Swing**

16000 SERIES 3

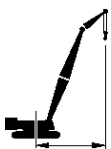


LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load over end of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

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. Drive and idler tumblers must be properly blocked so that centerline of tumblers becomes tipping fulcrum. Swing is limited to that sector shown on Operating Range Diagram **No. 8707-A**. 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 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, 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

Boom Length
90,0 m
Load block, hook and weight ball on ground at start.

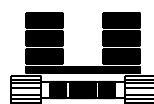
Boom Catwalks Deduct

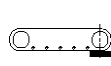
Deduct 300 kg from capacities when boom catwalks are attached.

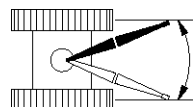
Lower boom point must be removed when extended upper boom point is attached.

Explanation of Symbols

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

 Crane Counterweight
+
Carbody Counterweight

 Rating Over End of
Blocked Crawlers

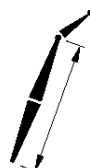
 Limited Swing Area

 Operating Radius
(see page 1)

 Boom Angle
(see page 1)

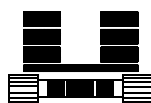
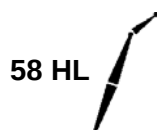
 Extended Upper
Boom Point Elevation
(see page 1)

 Lifting Capacities
(see page 1)

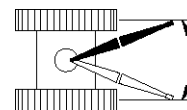
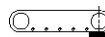
 Boom Length

16000 S-3

ANSI B30.5



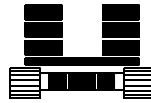
150 590 kg
+
54 430 kg



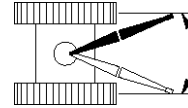
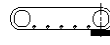
m	°	m	kg
66,0 m			
15,2	82,5	74,2	97 600 *
16,0	81,9	74,0	97 600 *
18,0	80,2	73,6	97 600 *
20,0	78,6	73,1	97 600 *
22,0	77,0	72,5	95 400 *
24,0	75,3	71,9	87 200
26,0	73,7	71,2	77 400
28,0	72,0	70,5	69 300
30,0	70,3	69,7	62 600
32,0	68,6	68,8	56 800
34,0	66,8	67,8	51 800
36,0	65,1	66,8	47 400
38,0	63,3	65,7	43 600
40,0	61,4	64,5	40 200
42,0	59,6	63,2	37 100
44,0	57,6	61,8	34 400
46,0	55,7	60,3	31 900
48,0	53,7	58,7	29 600
50,0	51,6	57,0	27 500
52,0	49,4	55,1	25 600
54,0	47,2	53,1	23 900
56,0	44,9	51,0	22 300
58,0	42,5	48,6	20 700 *
60,0	39,9	46,0	19 100 *
62,0	37,2	43,2	17 500 *

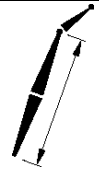
m	°	m	kg
72,0 m			
16,8	81,9	80,0	97 600 *
18,0	81,0	79,7	97 600 *
20,0	79,5	79,3	96 800 *
22,0	78,0	78,8	94 000 *
24,0	76,5	78,2	86 100 *
26,0	75,0	77,6	76 800
28,0	73,4	76,9	68 900
30,0	71,9	76,1	62 100
32,0	70,3	75,3	56 300
34,0	68,7	74,5	51 300
36,0	67,1	73,5	46 900
38,0	65,5	72,5	43 000
40,0	63,8	71,4	39 600
42,0	62,2	70,3	36 500
44,0	60,5	69,0	33 800
46,0	58,7	67,7	31 300
48,0	56,9	66,3	29 000
50,0	55,1	64,8	26 900
52,0	53,2	63,2	25 000
54,0	51,3	61,5	23 200 *
56,0	49,3	59,6	21 400 *
58,0	47,3	57,6	19 700 *
60,0	45,2	55,5	18 200 *
62,0	42,9	53,2	16 700 *
64,0	40,6	50,7	15 300 *
66,0	38,2	48,0	14 000 *

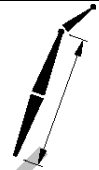
m	°	m	kg
78,0 m			
16,8	82,5	86,1	91 300 *
18,0	81,7	85,8	89 600 *
20,0	80,3	85,4	87 100 *
22,0	78,9	84,9	84 700 *
24,0	77,5	84,4	82 500 *
26,0	76,1	83,8	76 100 *
28,0	74,7	83,2	68 400
30,0	73,2	82,5	61 700
32,0	71,8	81,8	55 800
34,0	70,3	81,0	50 800
36,0	68,9	80,1	46 400
38,0	67,4	79,2	42 500
40,0	65,9	78,2	39 100
42,0	64,3	77,2	36 000
44,0	62,8	76,1	33 200
46,0	61,2	74,9	30 700
48,0	59,6	73,6	28 500
50,0	58,0	72,2	26 300
52,0	56,3	70,8	24 300 *
54,0	54,6	69,3	22 400 *
56,0	52,9	67,6	20 600 *
58,0	51,1	65,9	19 000 *
60,0	49,3	64,1	17 400 *
62,0	47,4	62,1	16 000 *
64,0	45,4	60,0	14 600 *
66,0	43,4	57,7	13 300 *
68,0	41,2	55,3	12 100 *
70,0	39,0	52,7	10 900 *
72,0	36,6	49,8	9 800 *



150 590 kg
+
54 430 kg



 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	82 600 *
24,0	78,3	90,6	80 800 *
26,0	77,0	90,1	74 500 *
28,0	75,7	89,5	67 200 *
30,0	74,4	88,9	60 700 *
32,0	73,1	88,2	55 100 *
34,0	71,7	87,4	50 100 *
36,0	70,3	86,7	45 800 *
38,0	69,0	85,8	41 900 *
40,0	67,6	84,9	38 400 *
42,0	66,2	83,9	35 200 *
44,0	64,8	82,9	32 400 *
46,0	63,3	81,8	29 800 *
48,0	61,9	80,7	27 400 *
50,0	60,4	79,4	25 200 *
52,0	58,9	78,1	23 100 *
54,0	57,4	76,8	21 200 *
56,0	55,8	75,3	19 500 *
58,0	54,2	73,7	17 800 *
60,0	52,6	72,1	16 300 *
62,0	50,9	70,4	14 900 *
64,0	49,2	68,5	13 500 *
66,0	47,4	66,6	12 300 *
68,0	45,6	64,5	11 000 *
70,0	43,7	62,3	9 900 *
72,0	41,7	59,9	8 800 *
74,0	39,7	57,3	7 800 *
76,0	37,5	54,6	6 800 *

 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	70 600 *
26,0	77,9	96,3	68 900 *
28,0	76,6	95,8	66 400 *
30,0	75,4	95,2	60 100 *
32,0	74,1	94,5	54 400 *
34,0	72,9	93,8	49 500 *
36,0	71,6	93,1	45 100 *
38,0	70,4	92,3	41 200 *
40,0	69,1	91,5	37 700 *
42,0	67,8	90,6	34 500 *
44,0	66,5	89,6	31 600 *
46,0	65,1	88,6	29 000 *
48,0	63,8	87,6	26 600 *
50,0	62,4	86,4	24 400 *
52,0	61,1	85,2	22 400 *
54,0	59,7	84,0	20 500 *
56,0	58,2	82,7	18 800 *
58,0	56,8	81,3	17 200 *
60,0	55,3	79,8	15 600 *
62,0	53,8	78,2	14 200 *
64,0	52,3	76,6	12 800 *
66,0	50,7	74,8	11 600 *
68,0	49,1	73,0	10 400 *
70,0	47,5	71,1	9 300 *
72,0	45,8	69,0	8 200 *
74,0	44,0	66,8	7 200 *
76,0	42,2	64,5	6 200 *
78,0	40,3	62,0	5 300 *
80,0	38,3	59,3	4 400 *
82,0	36,2	56,4	3 500 *