



Liftcrane Boom Capacities

Boom No. 58 HL
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 are calculated to comply with EN 13000, ISO 4305 and include factors based on a 4,0 degree tipping angle. Capacities based on structural competence are denoted by an asterisk (*).

Standard upper boom point capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom 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.

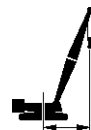
OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface. Refer to boom rigging **No. A10415** or **No. A20296**, Wire Rope Specification chart **No. 8674-A** and Counterweight Arrangement chart **No. 8682-A**. Crane operator judgment must be used to allow for 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.



WIND CONDITIONS: Machine may operate with full working load in wind speeds up to the maximum wind speed value provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind speed to be measured at boom point elevation. Refer to Wind Conditions Chart **No. 8688-A** for effect of wind on lifted load, additional maximum wind speeds when lifting percentage of full working load, and instructions for parking when wind speed exceeds maximum operating wind speed.

MACHINE TRAVEL: Machine to travel on a firm, level [up to 1 percent (0,5 degrees) grade] and uniformly supporting surface. *Travel with 100 percent of rated load prohibited.* Travel restricted to 90 percent of rated capacity with speed not to exceed 0,4 m/s. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8708-A**.

MAX PERMISSIBLE SLEWING SPEED: Slewing operation with working load shall not exceed 0,4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2,5 seconds.



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.



BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

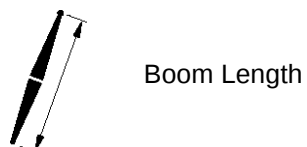
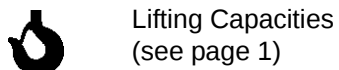
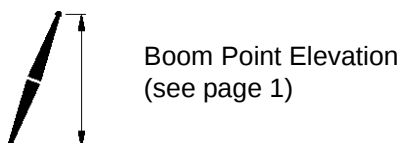
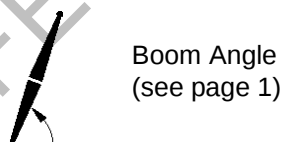
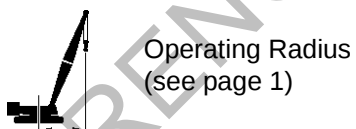
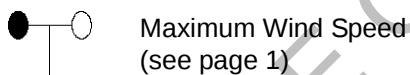
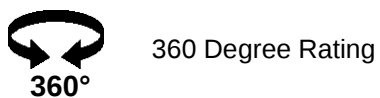
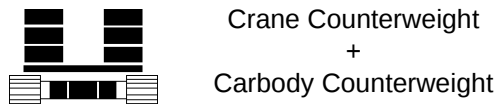
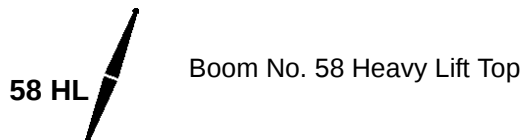
MACHINE EQUIPMENT: Machine equipped with 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, 150 590 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
90,0 m	78,0 m
Load block, hook and weight ball on ground at start.	

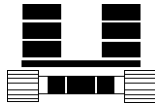
Third Line Deduct
Deduct 230 kg from boom capacities when boom is equipped for three line operation.

Boom Catwalks Deduct
Deduct 300 kg from boom capacities when boom catwalks are attached.

Explanation of Symbols



58 HL



150 590 kg
+
54 430 kg



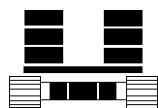
360°

m	o	m	kg
			30,0 m
			13 m/s
6,4	82,9	32,3	400 000 *
7,0	81,7	32,2	368 300 *
8,0	79,8	32,0	323 700
9,0	77,8	31,7	283 700
10,0	75,8	31,5	248 000
11,0	73,8	31,2	220 400
12,0	71,8	30,8	197 800
14,0	67,7	30,0	163 200
16,0	63,4	29,0	133 900
18,0	59,0	27,8	112 700
20,0	54,3	26,3	96 800
22,0	49,2	24,6	84 300
24,0	43,8	22,6	74 200
26,0	37,6	20,1	65 900
28,0	30,4	16,8	58 900
30,0	20,7	12,2	52 900

m	o	m	kg
			36,0 m
			13 m/s
7,3	82,6	38,2	343 500
8,0	81,5	38,1	307 900
9,0	79,9	37,9	267 000
10,0	78,3	37,7	235 300
11,0	76,6	37,4	210 000
12,0	75,0	37,1	189 200
14,0	71,6	36,5	157 300
16,0	68,2	35,7	133 400
18,0	64,6	34,7	113 000
20,0	61,0	33,6	96 800
22,0	57,2	32,3	84 300
24,0	53,3	30,8	74 300
26,0	49,1	29,1	66 000
28,0	44,6	27,1	59 100
30,0	39,6	24,7	53 200
32,0	34,1	21,9	48 100
34,0	27,5	18,2	43 700
36,0	18,7	13,1	39 700

m	o	m	kg
			42,0 m
			11 m/s
7,9	82,8	44,2	283 800 *
8,0	82,7	44,2	281 900
9,0	81,3	44,0	253 600
10,0	80,0	43,8	223 900
11,0	78,6	43,6	200 700
12,0	77,2	43,4	181 500
14,0	74,3	42,8	151 700
16,0	71,4	42,1	129 600
18,0	68,5	41,3	112 600
20,0	65,5	40,4	97 000
22,0	62,4	39,4	84 500
24,0	59,3	38,2	74 400
26,0	56,0	36,8	66 200
28,0	52,5	35,3	59 200
30,0	48,9	33,6	53 400
32,0	45,1	31,6	48 400
34,0	41,0	29,3	44 000
36,0	36,5	26,7	40 100
38,0	31,4	23,5	36 700
40,0	25,3	19,6	33 500

58 HL



150 590 kg

+

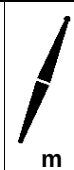
54 430 kg



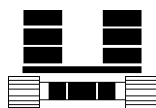
360°

			
m	o	m	kg
 48,0 m  11 m/s			
8,5	83,0	50,2	253 900
9,0	82,4	50,1	239 700
10,0	81,2	49,9	213 100
11,0	80,0	49,7	191 600
12,0	78,8	49,5	173 800
14,0	76,3	49,0	145 900
16,0	73,8	48,5	125 000
18,0	71,3	47,8	108 900
20,0	68,8	47,0	96 000
22,0	66,2	46,1	84 200
24,0	63,5	45,1	74 000
26,0	60,7	44,0	65 700
28,0	57,9	42,7	58 800
30,0	55,0	41,3	52 900
32,0	52,0	39,8	47 900
34,0	48,8	38,0	43 500
36,0	45,5	36,1	39 700
38,0	42,0	33,9	36 300
40,0	38,1	31,4	33 200
42,0	33,9	28,5	30 500
44,0	29,2	25,1	28 000
46,0	23,5	20,8	25 700

			
m	o	m	kg
 54,0 m  9 m/s			
9,8	82,5	56,0	208 800
10,0	82,2	56,0	203 500
11,0	81,1	55,8	183 400
12,0	80,1	55,7	166 800
14,0	77,9	55,2	140 600
16,0	75,7	54,7	120 900
18,0	73,5	54,1	105 500
20,0	71,2	53,4	93 200
22,0	69,0	52,7	83 100
24,0	66,7	51,8	73 900
26,0	64,3	50,8	65 500
28,0	61,9	49,7	58 600
30,0	59,4	48,6	52 700
32,0	56,9	47,3	47 700
34,0	54,3	45,8	43 300
36,0	51,6	44,2	39 400
38,0	48,8	42,5	36 000
40,0	45,8	40,6	33 000
42,0	42,7	38,4	30 300
44,0	39,4	36,0	27 800
46,0	35,8	33,3	25 600
48,0	31,9	30,2	23 600
50,0	27,4	26,5	21 700
52,0	22,1	21,9	19 900

			
m	o	m	kg
 60,0 m  9 m/s			
10,4	82,6	62,0	186 900
11,0	82,0	61,9	175 500
12,0	81,1	61,8	160 000
14,0	79,1	61,4	135 300
16,0	77,2	60,9	116 600
18,0	75,2	60,4	101 900
20,0	73,2	59,8	90 100
22,0	71,2	59,1	80 300
24,0	69,1	58,3	72 100
26,0	67,0	57,5	64 900
28,0	64,9	56,5	58 000
30,0	62,8	55,5	52 100
32,0	60,6	54,4	47 000
34,0	58,4	53,1	42 700
36,0	56,1	51,8	38 800
38,0	53,7	50,3	35 400
40,0	51,2	48,7	32 400
42,0	48,7	47,0	29 700
44,0	46,1	45,1	27 200
46,0	43,3	43,0	25 000
48,0	40,4	40,6	22 900
50,0	37,2	38,0	21 100
52,0	33,9	35,1	19 300
54,0	30,1	31,8	17 800
56,0	25,9	27,8	16 300
58,0	20,9	23,0	14 900

58 HL



150 590 kg
+
54 430 kg



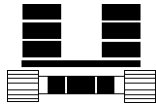
360°

m	o	m	kg
			9 m/s
11,0	82,8	68,0	167 100 *
12,0	81,9	67,8	153 900
14,0	80,1	67,5	130 400
16,0	78,3	67,1	112 600
18,0	76,6	66,6	98 600
20,0	74,8	66,0	87 300
22,0	72,9	65,4	77 800
24,0	71,1	64,7	69 900
26,0	69,3	64,0	63 200
28,0	67,4	63,1	57 300
30,0	65,5	62,2	51 700
32,0	63,5	61,2	46 600
34,0	61,5	60,1	42 200
36,0	59,5	59,0	38 400
38,0	57,5	57,7	34 900
40,0	55,4	56,3	31 900
42,0	53,2	54,8	29 200
44,0	51,0	53,2	26 800
46,0	48,7	51,5	24 600
48,0	46,3	49,5	22 500
50,0	43,8	47,5	20 700
52,0	41,1	45,2	18 900
54,0	38,4	42,7	17 400
56,0	35,4	40,0	15 900
58,0	32,2	36,8	14 600
60,0	28,7	33,3	13 300
62,0	24,6	29,1	12 100
64,0	19,9	24,0	11 000

m	o	m	kg
			9 m/s
11,6	82,9	74,0	149 900 *
12,0	82,6	73,9	146 700
14,0	81,0	73,6	125 600
16,0	79,3	73,2	108 700
18,0	77,7	72,8	95 200
20,0	76,1	72,3	84 300
22,0	74,4	71,7	75 200
24,0	72,7	71,1	67 600
26,0	71,1	70,4	61 000
28,0	69,4	69,6	55 300
30,0	67,6	68,8	50 400
32,0	65,9	67,9	45 900
34,0	64,1	66,9	41 500
36,0	62,3	65,9	37 600
38,0	60,5	64,8	34 200
40,0	58,6	63,5	31 200
42,0	56,7	62,2	28 500
44,0	54,8	60,8	26 000
46,0	52,8	59,3	23 800
48,0	50,7	57,7	21 800
50,0	48,6	55,9	19 900
52,0	46,4	54,0	18 200
54,0	44,2	52,0	16 600
56,0	41,8	49,8	15 200
58,0	39,3	47,3	13 900
60,0	36,6	44,7	12 600
62,0	33,8	41,8	11 400
64,0	30,7	38,5	10 300
66,0	27,4	34,7	9 300
68,0	23,5	30,4	8 300
70,0	19,0	25,0	7 300

m	o	m	kg
			9 m/s
12,2	83,0	79,9	137 300 *
14,0	81,7	79,7	121 200
16,0	80,2	79,3	104 900
18,0	78,7	78,9	92 000
20,0	77,2	78,5	81 500
22,0	75,6	77,9	72 700
24,0	74,1	77,4	65 300
26,0	72,6	76,7	59 000
28,0	71,0	76,1	53 500
30,0	69,5	75,3	48 600
32,0	67,9	74,5	44 400
34,0	66,3	73,6	40 600
36,0	64,6	72,7	37 100
38,0	63,0	71,6	33 600
40,0	61,3	70,5	30 600
42,0	59,6	69,4	27 800
44,0	57,9	68,1	25 400
46,0	56,1	66,8	23 100
48,0	54,3	65,3	21 100
50,0	52,4	63,8	19 300
52,0	50,5	62,2	17 600
54,0	48,6	60,4	16 000
56,0	46,6	58,5	14 600
58,0	44,5	56,5	13 200
60,0	42,3	54,3	11 900
62,0	40,0	52,0	10 800
64,0	37,6	49,4	9 700
66,0	35,1	46,6	8 600
68,0	32,4	43,5	7 700
70,0	29,5	40,0	6 800
72,0	26,2	36,1	5 900
74,0	22,6	31,5	5 100
76,0	18,2	25,9	4 300

58 HL



150 590 kg
+
54 430 kg



360°

m	o	m	kg
		84,0 m	
		9 m/s	
13,7	82,5	85,8	114 300 *
14,0	82,3	85,7	112 800
16,0	80,9	85,4	101 800
18,0	79,5	85,1	88 800
20,0	78,1	84,6	78 700
22,0	76,7	84,2	70 200
24,0	75,3	83,6	63 000
26,0	73,9	83,0	56 800
28,0	72,4	82,4	51 500
30,0	71,0	81,7	46 800
32,0	69,5	81,0	42 600
34,0	68,1	80,2	38 900
36,0	66,6	79,3	35 600
38,0	65,1	78,3	32 600
40,0	63,5	77,3	29 800
42,0	62,0	76,3	27 100
44,0	60,4	75,2	24 600
46,0	58,8	73,9	22 400
48,0	57,2	72,7	20 300
50,0	55,6	71,3	18 500
52,0	53,9	69,8	16 800
54,0	52,1	68,3	15 200
56,0	50,4	66,6	13 700
58,0	48,6	64,9	12 400
60,0	46,7	63,0	11 100
62,0	44,8	61,0	10 000
64,0	42,8	58,8	8 900
66,0	40,7	56,5	7 900
68,0	38,5	54,0	6 900
70,0	36,2	51,3	6 000
72,0	33,8	48,4	5 100
74,0	31,2	45,2	4 300
76,0	28,4	41,5	3 500

m	o	m	kg
		90,0 m	
		9 m/s	
13,7	83,0	91,8	95 900 *
14,0	82,8	91,8	95 500 *
16,0	81,5	91,5	92 300 *
18,0	80,2	91,2	85 900
20,0	78,9	90,8	76 000
22,0	77,6	90,3	67 800
24,0	76,3	89,8	60 900
26,0	75,0	89,3	54 900
28,0	73,6	88,7	49 700
30,0	72,3	88,1	45 100
32,0	71,0	87,4	41 000
34,0	69,6	86,6	37 400
36,0	68,2	85,8	34 200
38,0	66,8	85,0	31 200
40,0	65,4	84,0	28 600
42,0	64,0	83,1	26 200
44,0	62,6	82,0	24 000
46,0	61,1	80,9	21 700
48,0	59,7	79,7	19 700
50,0	58,2	78,5	17 800
52,0	56,6	77,2	16 100
54,0	55,1	75,8	14 600
56,0	53,5	74,3	13 100
58,0	51,9	72,8	11 800
60,0	50,2	71,1	10 500
62,0	48,5	69,3	9 300
64,0	46,8	67,5	8 300
66,0	45,0	65,5	7 200
68,0	43,1	63,3	6 300
70,0	41,2	61,1	5 400
72,0	39,2	58,7	4 500
74,0	37,1	56,0	3 700