

Liftcrane Boom Capacities

Boom No. 58 HL with 30,0 m Mast No. 59A
150 590 kg Crane Counterweight
54 430 kg Carbody Counterweight
360 Degree Rating

16000
SERIES 3
With Mast



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 with mast up. Refer to boom rigging **No. A14546**, Wire Rope Specification chart **No. 8745-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 Swing and Travel Specification chart **No. 8748-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, 30,0 m mast, 12 part boom hoist reeving, boom support straps, 150 590 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.


Boom Catwalks Deduct

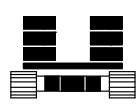
Deduct 550 kg from capacities when boom catwalks are attached.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side or End of Unblocked Crawlers
Boom Length	Boom Length
90,0 m	84,0 m

Explanation of Symbols

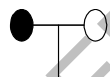
58 HL  Boom No. 58 Heavy Lift Top


 Mast No. 59A


 Crane Counterweight
+
Carbody Counterweight

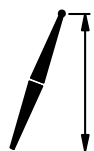
 360° 360 Degree Rating


 Boom Length

 Maximum Wind Speed
(see page 1)

 Operating Radius
(see page 1)

 Boom Angle
(see page 1)

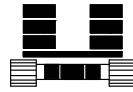
 Boom Point Elevation
(see page 1)

 Lifting Capacities
(see page 1)

REFERENCE ONLY!

16000 S-3

EN 13000



150 590 kg
+
54 430 kg

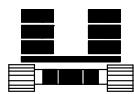


42,0 m				11 m/s
m	°	m	kg	
7,9	82,8	44,2	319 800	
8,0	82,7	44,2	316 600	
9,0	81,3	44,0	276 400	
10,0	80,0	43,8	245 000	
11,0	78,6	43,6	219 600	
12,0	77,2	43,4	198 700	
14,0	74,3	42,8	166 200	
16,0	71,4	42,1	142 200	
18,0	68,5	41,3	123 800	
20,0	65,5	40,4	107 800	
22,0	62,4	39,4	93 900	
24,0	59,3	38,2	82 900	
26,0	56,0	36,8	73 800	
28,0	52,5	35,3	66 200	
30,0	48,9	33,6	59 700	
32,0	45,1	31,6	54 200	
34,0	41,0	29,3	49 300	
36,0	36,5	26,7	45 100	
38,0	31,4	23,5	41 300	
40,0	25,3	19,6	37 900	

48,0 m				11 m/s
m	°	m	kg	
8,5	83,0	50,2	278 000	
9,0	82,4	50,1	262 500	
10,0	81,2	49,9	233 500	
11,0	80,0	49,8	210 100	
12,0	78,8	49,5	190 700	
14,0	76,3	49,0	160 200	
16,0	73,9	48,5	137 500	
18,0	71,3	47,8	119 900	
20,0	68,8	47,0	105 800	
22,0	66,2	46,1	93 900	
24,0	63,5	45,1	82 700	
26,0	60,8	44,0	73 500	
28,0	57,9	42,7	65 900	
30,0	55,0	41,3	59 400	
32,0	52,0	39,8	53 800	
34,0	48,8	38,0	49 000	
36,0	45,5	36,1	44 800	
38,0	42,0	33,9	41 000	
40,0	38,1	31,4	37 600	
42,0	33,9	28,5	34 600	
44,0	29,2	25,1	31 900	
46,0	23,5	20,8	29 400	

54,0 m				11 m/s
m	°	m	kg	
9,8	82,5	56,1	228 700	
10,0	82,2	56,0	222 900	
11,0	81,1	55,9	201 100	
12,0	80,1	55,7	183 000	
14,0	77,9	55,2	154 400	
16,0	75,7	54,7	132 800	
18,0	73,5	54,1	116 000	
20,0	71,2	53,4	102 600	
22,0	69,0	52,7	91 500	
24,0	66,7	51,8	82 100	
26,0	64,3	50,8	73 200	
28,0	61,9	49,8	65 500	
30,0	59,4	48,6	59 000	
32,0	56,9	47,3	53 400	
34,0	54,3	45,8	48 600	
36,0	51,6	44,3	44 300	
38,0	48,8	42,5	40 500	
40,0	45,8	40,6	37 200	
42,0	42,7	38,5	34 200	
44,0	39,4	36,1	31 500	
46,0	35,8	33,3	29 000	
48,0	31,9	30,2	26 700	
50,0	27,4	26,5	24 600	
52,0	22,1	21,9	22 700	

REFERENCIA



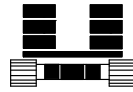
150 590 kg
+
54 430 kg



60,0 m				11 m/s
m	°	m	kg	
10,4	82,7	62,0	204 900	
11,0	82,0	61,9	192 500	
12,0	81,1	61,8	175 700	
14,0	79,1	61,4	148 700	
16,0	77,2	60,9	128 300	
18,0	75,2	60,4	112 200	
20,0	73,2	59,8	99 300	
22,0	71,2	59,1	88 600	
24,0	69,1	58,3	79 700	
26,0	67,1	57,5	72 100	
28,0	64,9	56,5	65 100	
30,0	62,8	55,5	58 500	
32,0	60,6	54,4	52 900	
34,0	58,4	53,2	48 000	
36,0	56,1	51,8	43 800	
38,0	53,7	50,3	40 000	
40,0	51,3	48,7	36 600	
42,0	48,7	47,0	33 600	
44,0	46,1	45,1	30 900	
46,0	43,3	43,0	28 400	
48,0	40,4	40,7	26 200	
50,0	37,3	38,1	24 100	
52,0	33,9	35,2	22 200	
54,0	30,2	31,8	20 400	
56,0	26,0	27,9	18 800	
58,0	20,9	23,0	17 200	

66,0 m				11 m/s
m	°	m	kg	
11,0	82,8	68,0	185 500	
12,0	81,9	67,8	169 200	
14,0	80,1	67,5	143 800	
16,0	78,3	67,1	124 400	
18,0	76,6	66,6	109 100	
20,0	74,8	66,0	96 700	
22,0	72,9	65,4	86 400	
24,0	71,1	64,7	77 700	
26,0	69,2	64,0	70 400	
28,0	67,4	63,1	64 000	
30,0	65,5	62,2	58 300	
32,0	63,5	61,2	52 800	
34,0	61,5	60,1	47 900	
36,0	59,5	59,0	43 700	
38,0	57,5	57,7	39 900	
40,0	55,4	56,3	36 500	
42,0	53,2	54,8	33 500	
44,0	51,0	53,2	30 800	
46,0	48,6	51,4	28 300	
48,0	46,3	49,5	26 100	
50,0	43,8	47,5	24 000	
52,0	41,1	45,2	22 100	
54,0	38,4	42,7	20 300	
56,0	35,4	39,9	18 700	
58,0	32,2	36,8	17 200	
60,0	28,6	33,3	15 800	
62,0	24,6	29,1	14 500	
64,0	19,8	24,0	13 200	

72,0 m				11 m/s
m	°	m	kg	
11,6	82,9	74,0	168 500	
12,0	82,6	73,9	162 700	
14,0	81,0	73,6	138 600	
16,0	79,3	73,2	120 100	
18,0	77,7	72,8	105 400	
20,0	76,1	72,3	93 500	
22,0	74,4	71,7	83 600	
24,0	72,7	71,1	75 200	
26,0	71,1	70,4	68 100	
28,0	69,4	69,6	61 900	
30,0	67,6	68,8	56 500	
32,0	65,9	67,9	51 700	
34,0	64,1	66,9	47 300	
36,0	62,3	65,9	43 000	
38,0	60,5	64,8	39 200	
40,0	58,6	63,5	35 900	
42,0	56,7	62,2	32 800	
44,0	54,8	60,8	30 100	
46,0	52,8	59,3	27 600	
48,0	50,7	57,7	25 400	
50,0	48,6	55,9	23 300	
52,0	46,4	54,0	21 400	
54,0	44,1	52,0	19 700	
56,0	41,8	49,8	18 000	
58,0	39,3	47,3	16 500	
60,0	36,6	44,7	15 100	
62,0	33,8	41,8	13 800	
64,0	30,7	38,5	12 600	
66,0	27,4	34,7	11 400	
68,0	23,5	30,3	10 300	
70,0	18,9	24,9	9 300	



150 590 kg
+
54 430 kg



 78,0 m 9 m/s			
m	°	m	kg
12,2	83,0	79,9	154 100
14,0	81,7	79,7	133 800
16,0	80,2	79,3	116 200
18,0	78,7	78,9	102 100
20,0	77,2	78,5	90 700
22,0	75,6	77,9	81 100
24,0	74,1	77,4	73 000
26,0	72,6	76,7	66 000
28,0	71,0	76,1	60 000
30,0	69,4	75,3	54 700
32,0	67,9	74,5	50 100
34,0	66,3	73,6	46 000
36,0	64,6	72,7	42 300
38,0	63,0	71,6	38 700
40,0	61,3	70,5	35 400
42,0	59,6	69,4	32 300
44,0	57,9	68,1	29 600
46,0	56,1	66,8	27 100
48,0	54,3	65,3	24 800
50,0	52,4	63,8	22 800
52,0	50,5	62,2	20 900
54,0	48,6	60,4	19 200
56,0	46,6	58,5	17 500
58,0	44,5	56,5	16 000
60,0	42,3	54,3	14 600
62,0	40,0	51,9	13 300
64,0	37,6	49,4	12 100
66,0	35,1	46,6	10 900
68,0	32,4	43,5	9 800
70,0	29,5	40,0	8 800
72,0	26,2	36,1	7 800
74,0	22,6	31,5	6 900
76,0	18,2	25,9	6 000

 84,0 m 9 m/s			
m	°	m	kg
13,7	82,5	85,8	131 700
14,0	82,3	85,8	129 200
16,0	80,9	85,4	112 200
18,0	79,5	85,1	98 700
20,0	78,1	84,6	87 600
22,0	76,7	84,2	78 400
24,0	75,3	83,6	70 500
26,0	73,9	83,0	63 800
28,0	72,4	82,4	57 900
30,0	71,0	81,7	52 800
32,0	69,5	81,0	48 200
34,0	68,1	80,2	44 200
36,0	66,6	79,3	40 600
38,0	65,1	78,4	37 300
40,0	63,5	77,4	34 300
42,0	62,0	76,3	31 600
44,0	60,4	75,2	28 800
46,0	58,8	73,9	26 300
48,0	57,2	72,7	24 100
50,0	55,6	71,3	22 000
52,0	53,9	69,8	20 100
54,0	52,1	68,3	18 300
56,0	50,4	66,6	16 800
58,0	48,6	64,9	15 300
60,0	46,7	63,0	13 800
62,0	44,8	61,0	12 500
64,0	42,8	58,8	11 300
66,0	40,7	56,5	10 200
68,0	38,5	54,0	9 100
70,0	36,2	51,3	8 100
72,0	33,8	48,4	7 100
74,0	31,2	45,2	6 200
76,0	28,4	41,5	5 300
80,0	21,7	32,7	3 700

 90,0 m 9 m/s			
m	°	m	kg
13,7	83,0	91,9	127 300
14,0	82,8	91,8	124 900
16,0	81,5	91,5	108 600
18,0	80,2	91,2	95 700
20,0	78,9	90,8	85 000
22,0	77,6	90,3	76 100
24,0	76,3	89,8	68 500
26,0	75,0	89,3	61 900
28,0	73,6	88,7	56 200
30,0	72,3	88,1	51 200
32,0	71,0	87,4	46 800
34,0	69,6	86,6	42 800
36,0	68,2	85,8	39 300
38,0	66,8	85,0	36 100
40,0	65,4	84,1	33 200
42,0	64,0	83,1	30 500
44,0	62,6	82,0	28 100
46,0	61,1	80,9	25 900
48,0	59,7	79,8	23 700
50,0	58,2	78,5	21 600
52,0	56,6	77,2	19 700
54,0	55,1	75,8	18 000
56,0	53,5	74,3	16 300
58,0	51,9	72,8	14 900
60,0	50,2	71,1	13 500
62,0	48,5	69,3	12 200
64,0	46,8	67,5	10 900
66,0	45,0	65,5	9 800
68,0	43,1	63,4	8 700
70,0	41,2	61,1	7 700
72,0	39,2	58,7	6 700
74,0	37,1	56,1	5 800
76,0	34,9	53,2	5 000