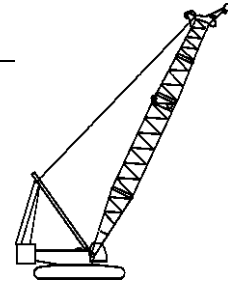




Liftcrane Boom Capacities

Boom No. 58 HL
134 260 kg Crane Counterweight
27 220 kg Carbody Counterweight
360 Degree Rating



16000 SERIES 2



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.

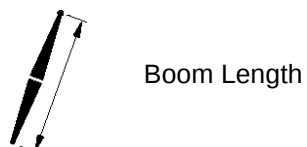
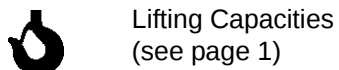
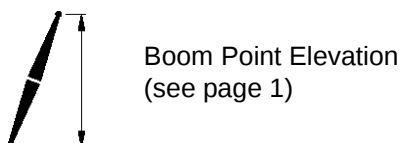
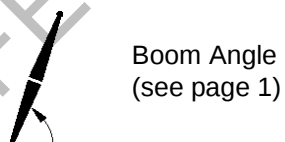
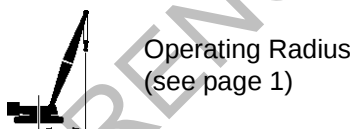
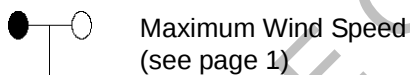
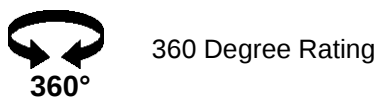
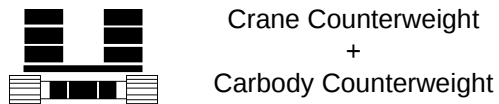
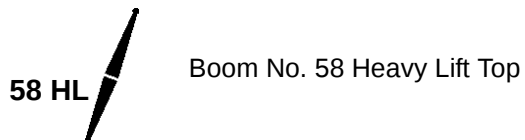
MACHINE EQUIPMENT: Machine equipped with 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, 134 260 kg crane counterweight and two 13 610 kg carbody counterweights.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
78,0 m	72,0 m
Load block, hook and weight ball on ground at start.	

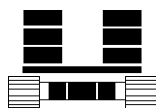
Third Line Deduct
Deduct 230 kg from boom capacities when boom is equipped for three line operation.

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

Explanation of Symbols



58 HL



134 260 kg
+
27 220 kg

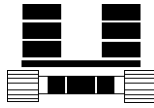


m	o	m	kg
30,0 m			
13 m/s			
6,4	82,9	32,3	388 300
7,0	81,7	32,2	344 200
8,0	79,8	32,0	289 100
9,0	77,8	31,7	248 500
10,0	75,8	31,5	217 400
11,0	73,8	31,2	192 900
12,0	71,8	30,8	173 000
14,0	67,7	30,0	142 400
16,0	63,4	29,0	116 700
18,0	59,0	27,8	97 900
20,0	54,3	26,3	83 800
22,0	49,2	24,6	72 700
24,0	43,8	22,6	63 800
26,0	37,6	20,1	56 400
28,0	30,4	16,8	50 200
30,0	20,7	12,2	44 900

m	o	m	kg
36,0 m			
13 m/s			
7,3	82,6	38,2	302 000
8,0	81,5	38,1	270 500
9,0	79,9	37,9	234 300
10,0	78,3	37,7	206 200
11,0	76,6	37,4	183 800
12,0	75,0	37,1	165 400
14,0	71,6	36,5	137 100
16,0	68,2	35,7	116 100
18,0	64,6	34,7	98 100
20,0	61,0	33,6	83 800
22,0	57,2	32,3	72 700
24,0	53,3	30,8	63 800
26,0	49,1	29,1	56 500
28,0	44,6	27,1	50 400
30,0	39,6	24,7	45 100
32,0	34,1	21,9	40 600
34,0	27,5	18,2	36 700
36,0	18,7	13,1	33 200

m	o	m	kg
42,0 m			
11 m/s			
7,9	82,8	44,2	257 000
8,0	82,7	44,2	254 400
9,0	81,3	44,0	221 700
10,0	80,0	43,8	196 200
11,0	78,6	43,6	175 600
12,0	77,2	43,4	158 500
14,0	74,3	42,8	132 100
16,0	71,4	42,1	112 600
18,0	68,5	41,3	97 600
20,0	65,5	40,4	84 000
22,0	62,4	39,4	72 900
24,0	59,3	38,2	64 000
26,0	56,0	36,8	56 700
28,0	52,5	35,3	50 500
30,0	48,9	33,6	45 300
32,0	45,1	31,6	40 900
34,0	41,0	29,3	36 900
36,0	36,5	26,7	33 500
38,0	31,4	23,5	30 500
40,0	25,3	19,6	27 800

58 HL



134 260 kg
+
27 220 kg

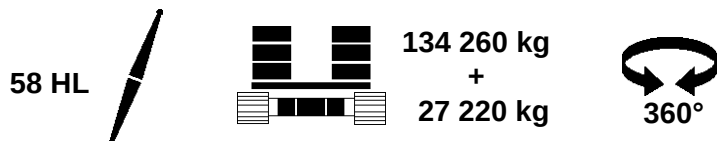


360°

			
m	o	m	kg
 48,0 m  11 m/s			
8,5	83,0	50,2	222 800
9,0	82,4	50,1	210 100
10,0	81,2	49,9	186 600
11,0	80,0	49,7	167 500
12,0	78,8	49,5	151 700
14,0	76,3	49,0	127 000
16,0	73,8	48,5	108 500
18,0	71,3	47,8	94 200
20,0	68,8	47,0	82 800
22,0	66,2	46,1	72 600
24,0	63,5	45,1	63 600
26,0	60,7	44,0	56 200
28,0	57,9	42,7	50 100
30,0	55,0	41,3	44 900
32,0	52,0	39,8	40 400
34,0	48,8	38,0	36 500
36,0	45,5	36,1	33 100
38,0	42,0	33,9	30 100
40,0	38,1	31,4	27 400
42,0	33,9	28,5	25 000
44,0	29,2	25,1	22 700
46,0	23,5	20,8	20 700

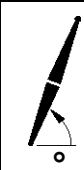
			
m	o	m	kg
 54,0 m  9 m/s			
9,8	82,5	56,0	182 700
10,0	82,2	56,0	178 000
11,0	81,1	55,8	160 300
12,0	80,1	55,7	145 600
14,0	77,9	55,2	122 300
16,0	75,7	54,7	104 800
18,0	73,5	54,1	91 200
20,0	71,2	53,4	80 200
22,0	69,0	52,7	71 300
24,0	66,7	51,8	63 300
26,0	64,3	50,8	56 000
28,0	61,9	49,7	49 900
30,0	59,4	48,6	44 700
32,0	56,9	47,3	40 200
34,0	54,3	45,8	36 300
36,0	51,6	44,2	32 900
38,0	48,8	42,5	29 800
40,0	45,8	40,6	27 200
42,0	42,7	38,4	24 800
44,0	39,4	36,0	22 600
46,0	35,8	33,3	20 600
48,0	31,9	30,2	18 800
50,0	27,4	26,5	17 100
52,0	22,1	21,9	15 600

			
m	o	m	kg
 60,0 m  9 m/s			
10,4	82,6	62,0	163 300
11,0	82,0	61,9	153 200
12,0	81,1	61,8	139 400
14,0	79,1	61,4	117 600
16,0	77,2	60,9	101 000
18,0	75,2	60,4	87 900
20,0	73,2	59,8	77 400
22,0	71,2	59,1	68 800
24,0	69,1	58,3	61 500
26,0	67,0	57,5	55 300
28,0	64,9	56,5	49 300
30,0	62,8	55,5	44 000
32,0	60,6	54,4	39 600
34,0	58,4	53,1	35 700
36,0	56,1	51,8	32 300
38,0	53,7	50,3	29 200
40,0	51,2	48,7	26 500
42,0	48,7	47,0	24 100
44,0	46,1	45,1	22 000
46,0	43,3	43,0	20 000
48,0	40,4	40,6	18 200
50,0	37,2	38,0	16 500
52,0	33,9	35,1	15 000
54,0	30,1	31,8	13 600
56,0	25,9	27,8	12 300
58,0	20,9	23,0	11 000



			
m	o	m	kg
			
66,0 m			9 m/s
11,0	82,8	68,0	147 100
12,0	81,9	67,8	133 800
14,0	80,1	67,5	113 200
16,0	78,3	67,1	97 400
18,0	76,6	66,6	85 000
20,0	74,8	66,0	74 900
22,0	72,9	65,4	66 600
24,0	71,1	64,7	59 500
26,0	69,3	64,0	53 500
28,0	67,4	63,1	48 400
30,0	65,5	62,2	43 700
32,0	63,5	61,2	39 100
34,0	61,5	60,1	35 200
36,0	59,5	59,0	31 800
38,0	57,5	57,7	28 800
40,0	55,4	56,3	26 100
42,0	53,2	54,8	23 700
44,0	51,0	53,2	21 500
46,0	48,7	51,5	19 600
48,0	46,3	49,5	17 700
50,0	43,8	47,5	16 100
52,0	41,1	45,2	14 600
54,0	38,4	42,7	13 200
56,0	35,4	40,0	11 900
58,0	32,2	36,8	10 600
60,0	28,7	33,3	9 500
62,0	24,6	29,1	8 500
64,0	19,9	24,0	7 500

			
m	o	m	kg
			
72,0 m			9 m/s
11,6	82,9	74,0	133 200
12,0	82,6	73,9	128 400
14,0	81,0	73,6	108 800
16,0	79,3	73,2	93 800
18,0	77,7	72,8	81 900
20,0	76,1	72,3	72 200
22,0	74,4	71,7	64 100
24,0	72,7	71,1	57 300
26,0	71,1	70,4	51 500
28,0	69,4	69,6	46 500
30,0	67,6	68,8	42 100
32,0	65,9	67,9	38 200
34,0	64,1	66,9	34 500
36,0	62,3	65,9	31 100
38,0	60,5	64,8	28 100
40,0	58,6	63,5	25 400
42,0	56,7	62,2	22 900
44,0	54,8	60,8	20 800
46,0	52,8	59,3	18 800
48,0	50,7	57,7	17 000
50,0	48,6	55,9	15 300
52,0	46,4	54,0	13 800
54,0	44,2	52,0	12 400
56,0	41,8	49,8	11 200
58,0	39,3	47,3	10 000
60,0	36,6	44,7	8 900
62,0	33,8	41,8	7 800
64,0	30,7	38,5	6 800
66,0	27,4	34,7	5 900
68,0	23,5	30,4	5 000
70,0	19,0	25,0	4 200

			
m	o	m	kg
			
78,0 m			9 m/s
12,2	83,0	79,9	121 200
14,0	81,7	79,7	104 700
16,0	80,2	79,3	90 400
18,0	78,7	78,9	79 000
20,0	77,2	78,5	69 600
22,0	75,6	77,9	61 800
24,0	74,1	77,4	55 200
26,0	72,6	76,7	49 600
28,0	71,0	76,1	44 700
30,0	69,5	75,3	40 500
32,0	67,9	74,5	36 700
34,0	66,3	73,6	33 300
36,0	64,6	72,7	30 300
38,0	63,0	71,6	27 400
40,0	61,3	70,5	24 700
42,0	59,6	69,4	22 300
44,0	57,9	68,1	20 100
46,0	56,1	66,8	18 100
48,0	54,3	65,3	16 300
50,0	52,4	63,8	14 700
52,0	50,5	62,2	13 200
54,0	48,6	60,4	11 800
56,0	46,6	58,5	10 500
58,0	44,5	56,5	9 300
60,0	42,3	54,3	8 200
62,0	40,0	52,0	7 100
64,0	37,6	49,4	6 200
66,0	35,1	46,6	5 300
68,0	32,4	43,5	4 400
70,0	29,5	40,0	3 600