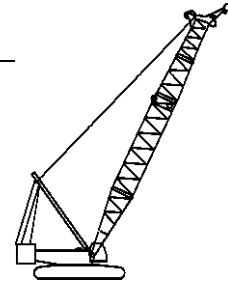




Liftcrane Boom Capacities

Boom No. 58 HL
101 600 kg Crane Counterweight
0 kg Carbody Counterweight
360 Degree Rating



16000 SERIES 1



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.

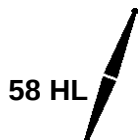
MACHINE EQUIPMENT: Machine equipped with 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, and 101 600 kg crane counterweight and 0 kg carbody counterweight.

Maximum Boom Length Lifted Unassisted	
Over End of Unblocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
66,0 m	66,0 m
Load block, hook and weight ball on ground at start.	

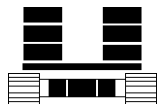
Third Line Deduct
Deduct 230 kg from boom capacities when boom is equipped for three line operation.

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

Explanation of Symbols



Boom No. 58 Heavy Lift Top



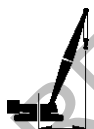
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



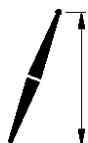
Maximum Wind Speed
(see page 1)



Operating Radius
(see page 1)



Boom Angle
(see page 1)



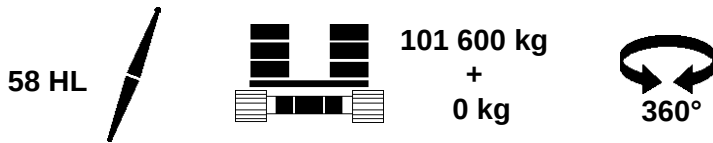
Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)

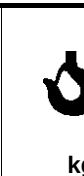


Boom Length

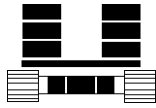


			
m	o	m	kg
 30,0 m  13 m/s			
6,4	82,9	32,3	303 200
7,0	81,7	32,2	268 400
8,0	79,8	32,0	224 800
9,0	77,8	31,7	192 600
10,0	75,8	31,5	168 100
11,0	73,8	31,2	148 700
12,0	71,8	30,8	132 900
14,0	67,7	30,0	108 800
16,0	63,4	29,0	88 900
18,0	59,0	27,8	74 000
20,0	54,3	26,3	62 800
22,0	49,2	24,6	54 000
24,0	43,8	22,6	46 900
26,0	37,6	20,1	41 100
28,0	30,4	16,8	36 200
30,0	20,7	12,2	31 900

			
m	o	m	kg
 36,0 m  13 m/s			
7,3	82,6	38,2	235 100
8,0	81,5	38,1	210 200
9,0	79,9	37,9	181 500
10,0	78,3	37,7	159 300
11,0	76,6	37,4	141 500
12,0	75,0	37,1	127 000
14,0	71,6	36,5	104 600
16,0	68,2	35,7	88 100
18,0	64,6	34,7	74 200
20,0	61,0	33,6	62 900
22,0	57,2	32,3	54 100
24,0	53,3	30,8	47 000
26,0	49,1	29,1	41 200
28,0	44,6	27,1	36 300
30,0	39,6	24,7	32 200
32,0	34,1	21,9	28 600
34,0	27,5	18,2	25 400
36,0	18,7	13,1	22 600

			
m	o	m	kg
 42,0 m  11 m/s			
7,9	82,8	44,2	199 700
8,0	82,7	44,2	197 600
9,0	81,3	44,0	171 600
10,0	80,0	43,8	151 400
11,0	78,6	43,6	135 100
12,0	77,2	43,4	121 600
14,0	74,3	42,8	100 700
16,0	71,4	42,1	85 200
18,0	68,5	41,3	73 300
20,0	65,5	40,4	63 100
22,0	62,4	39,4	54 200
24,0	59,3	38,2	47 100
26,0	56,0	36,8	41 300
28,0	52,5	35,3	36 500
30,0	48,9	33,6	32 300
32,0	45,1	31,6	28 800
34,0	41,0	29,3	25 700
36,0	36,5	26,7	23 000
38,0	31,4	23,5	20 500
40,0	25,3	19,6	18 300

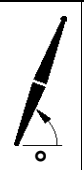
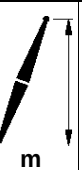
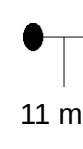
58 HL

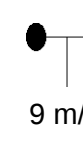


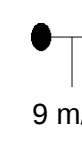
101 600 kg
+
0 kg

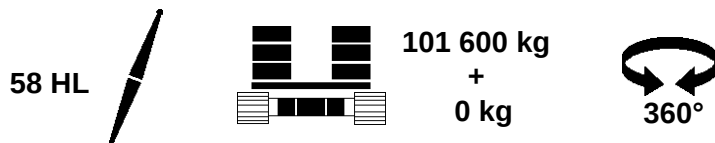


360°

			
m	o	m	kg
 48,0 m  11 m/s			
8,5	83,0	50,2	172 500
9,0	82,4	50,1	162 500
10,0	81,2	49,9	143 800
11,0	80,0	49,7	128 700
12,0	78,8	49,5	116 100
14,0	76,3	49,0	96 500
16,0	73,8	48,5	81 900
18,0	71,3	47,8	70 500
20,0	68,8	47,0	61 500
22,0	66,2	46,1	53 900
24,0	63,5	45,1	46 800
26,0	60,7	44,0	40 900
28,0	57,9	42,7	36 100
30,0	55,0	41,3	31 900
32,0	52,0	39,8	28 400
34,0	48,8	38,0	25 300
36,0	45,5	36,1	22 500
38,0	42,0	33,9	20 200
40,0	38,1	31,4	18 000
42,0	33,9	28,5	16 100
44,0	29,2	25,1	14 300
46,0	23,5	20,8	12 700

			
m	o	m	kg
 54,0 m  9 m/s			
9,8	82,5	56,0	140 700
10,0	82,2	56,0	137 000
11,0	81,1	55,8	122 900
12,0	80,1	55,7	111 200
14,0	77,9	55,2	92 800
16,0	75,7	54,7	78 900
18,0	73,5	54,1	68 100
20,0	71,2	53,4	59 400
22,0	69,0	52,7	52 300
24,0	66,7	51,8	46 300
26,0	64,3	50,8	40 700
28,0	61,9	49,7	35 800
30,0	59,4	48,6	31 700
32,0	56,9	47,3	28 100
34,0	54,3	45,8	25 000
36,0	51,6	44,2	22 300
38,0	48,8	42,5	19 900
40,0	45,8	40,6	17 800
42,0	42,7	38,4	15 800
44,0	39,4	36,0	14 100
46,0	35,8	33,3	12 500
48,0	31,9	30,2	11 100
50,0	27,4	26,5	9 800
52,0	22,1	21,9	8 500

			
m	o	m	kg
 60,0 m  9 m/s			
10,4	82,6	62,0	125 200
11,0	82,0	61,9	117 200
12,0	81,1	61,8	106 300
14,0	79,1	61,4	88 900
16,0	77,2	60,9	75 700
18,0	75,2	60,4	65 400
20,0	73,2	59,8	57 000
22,0	71,2	59,1	50 200
24,0	69,1	58,3	44 400
26,0	67,0	57,5	39 500
28,0	64,9	56,5	35 200
30,0	62,8	55,5	31 100
32,0	60,6	54,4	27 500
34,0	58,4	53,1	24 400
36,0	56,1	51,8	21 700
38,0	53,7	50,3	19 300
40,0	51,2	48,7	17 100
42,0	48,7	47,0	15 200
44,0	46,1	45,1	13 500
46,0	43,3	43,0	11 900
48,0	40,4	40,6	10 500
50,0	37,2	38,0	9 100
52,0	33,9	35,1	7 900
54,0	30,1	31,8	6 800
56,0	25,9	27,8	5 700
58,0	20,9	23,0	4 800



m	°	m	kg
66,0 m 9 m/s			
11,0	82,8	68,0	112 300
12,0	81,9	67,8	101 700
14,0	80,1	67,5	85 400
16,0	78,3	67,1	72 800
18,0	76,6	66,6	62 900
20,0	74,8	66,0	54 900
22,0	72,9	65,4	48 300
24,0	71,1	64,7	42 700
26,0	69,3	64,0	38 000
28,0	67,4	63,1	33 900
30,0	65,5	62,2	30 300
32,0	63,5	61,2	27 100
34,0	61,5	60,1	24 000
36,0	59,5	59,0	21 300
38,0	57,5	57,7	18 800
40,0	55,4	56,3	16 700
42,0	53,2	54,8	14 800
44,0	51,0	53,2	13 000
46,0	48,7	51,5	11 500
48,0	46,3	49,5	10 000
50,0	43,8	47,5	8 700
52,0	41,1	45,2	7 500
54,0	38,4	42,7	6 400
56,0	35,4	40,0	5 400
58,0	32,2	36,8	4 400

REFERENCE ONLY!