



Liftcrane Boom

Extended Upper Point Capacities

Boom No. 58 HL with 7 m Extended
Upper Boom Point
134 260 kg Crane Counterweight
27 220 kg Carbody Counterweight
360 Degree Rating

16000
SERIES 2

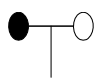


LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with EN 13000, ISO 4305 and include factors based on a 4,0 degree tipping angle. Capacities based on structural competence are denoted by an asterisk (*).

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. Refer to boom rigging **No. A10415** or **No. A20296**, Wire Rope Specification chart **No. 8674-B** 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-B**.

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.



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, 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 until combined weights are within rated capacity of chart.	

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



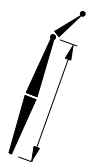
Boom No. 58 Heavy Lift Top
with 7 m Extended Upper
Boom Point



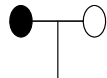
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



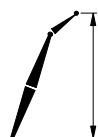
Maximum Wind Speed
(see page 1)



Operating Radius
(see page 1)



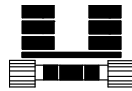
Boom Angle
(see page 1)



Extended Upper
Boom Point elevation
(see page 1)



Lifting Capacities
(see page 1)



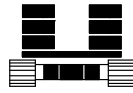
134 260 kg
+
27 220 kg



 42,0 m 16 m/s			
m	°	m	kg
13,7	80,5	50,0	97 600 *
14,0	80,2	49,9	97 600 *
16,0	77,7	49,3	97 600 *
18,0	75,3	48,7	97 600 *
20,0	72,7	47,9	87 900
22,0	70,2	47,0	77 600
24,0	67,6	46,1	68 200
26,0	64,9	45,0	60 700
28,0	62,2	43,7	54 400
30,0	59,3	42,4	49 000
32,0	56,4	40,9	44 400
34,0	53,3	39,2	40 300
36,0	50,1	37,3	36 800
38,0	46,7	35,2	33 700
40,0	43,0	32,8	30 800
42,0	39,0	30,0	28 300

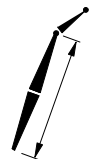
 48,0 m 16 m/s			
m	°	m	kg
13,7	81,6	56,1	97 600 *
14,0	81,3	56,1	97 600 *
16,0	79,1	55,6	97 600 *
18,0	76,9	55,0	95 100
20,0	74,7	54,3	85 100
22,0	72,5	53,5	75 900
24,0	70,2	52,7	67 800
26,0	67,9	51,8	60 200
28,0	65,6	50,7	53 900
30,0	63,1	49,5	48 500
32,0	60,7	48,3	43 900
34,0	58,1	46,9	39 800
36,0	55,5	45,3	36 300
38,0	52,7	43,6	33 200
40,0	49,9	41,8	30 400
42,0	46,9	39,7	27 900
44,0	43,7	37,4	25 600
46,0	40,2	34,8	23 500

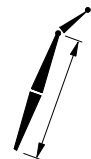
 54,0 m 16 m/s			
m	°	m	kg
13,7	82,4	62,3	97 600 *
14,0	82,2	62,2	97 600 *
16,0	80,2	61,8	97 600 *
18,0	78,3	61,2	92 700
20,0	76,3	60,6	82 500
22,0	74,3	60,0	73 600
24,0	72,3	59,2	66 200
26,0	70,3	58,4	59 800
28,0	68,2	57,4	53 600
30,0	66,1	56,4	48 200
32,0	63,9	55,3	43 500
34,0	61,7	54,1	39 500
36,0	59,5	52,8	36 000
38,0	57,1	51,3	32 800
40,0	54,7	49,8	30 100
42,0	52,3	48,1	27 500
44,0	49,7	46,2	25 300
46,0	47,0	44,2	23 200
48,0	44,2	41,9	21 400
50,0	41,1	39,4	19 600
52,0	37,9	36,6	18 000

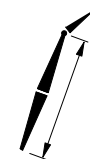


134 260 kg
+
27 220 kg



 60,0 m 16 m/s			
m	°	m	kg
15,2	81,8	68,1	97 600*
16,0	81,1	67,9	97 600*
18,0	79,4	67,4	90 300
20,0	77,6	66,9	79 800
22,0	75,8	66,3	71 300
24,0	74,0	65,6	64 000
26,0	72,1	64,8	57 900
28,0	70,3	64,0	52 600
30,0	68,4	63,1	47 600
32,0	66,5	62,1	43 000
34,0	64,5	61,1	38 900
36,0	62,6	59,9	35 300
38,0	60,5	58,7	32 200
40,0	58,5	57,3	29 400
42,0	56,3	55,8	26 900
44,0	54,2	54,2	24 700
46,0	51,9	52,5	22 600
48,0	49,6	50,7	20 700
50,0	47,1	48,7	19 000
52,0	44,6	46,5	17 400
54,0	41,9	44,0	15 900
56,0	39,0	41,4	14 600

 66,0 m 16 m/s			
m	°	m	kg
15,2	82,5	74,2	97 600*
16,0	81,9	74,0	96 100
18,0	80,2	73,6	87 900
20,0	78,6	73,1	77 400
22,0	77,0	72,5	69 100
24,0	75,3	71,9	62 100
26,0	73,7	71,2	56 100
28,0	72,0	70,5	50 900
30,0	70,3	69,7	46 400
32,0	68,6	68,8	42 400
34,0	66,8	67,8	38 500
36,0	65,1	66,8	34 900
38,0	63,3	65,7	31 800
40,0	61,4	64,5	28 900
42,0	59,6	63,2	26 500
44,0	57,6	61,8	24 200
46,0	55,7	60,3	22 100
48,0	53,7	58,7	20 200
50,0	51,6	57,0	18 500
52,0	49,4	55,1	17 000
54,0	47,2	53,1	15 500
56,0	44,9	51,0	14 100
58,0	42,5	48,6	12 900
60,0	39,9	46,0	11 700
62,0	37,2	43,2	10 600

 72,0 m 13 m/s			
m	°	m	kg
16,8	81,9	80,0	91 400
18,0	81,0	79,7	84 500
20,0	79,5	79,3	74 800
22,0	78,0	78,8	66 700
24,0	76,5	78,2	60 000
26,0	75,0	77,6	54 200
28,0	73,4	76,9	49 100
30,0	71,9	76,1	44 700
32,0	70,3	75,3	40 800
34,0	68,7	74,5	37 400
36,0	67,1	73,5	34 200
38,0	65,5	72,5	31 100
40,0	63,8	71,4	28 200
42,0	62,2	70,3	25 700
44,0	60,5	69,0	23 500
46,0	58,7	67,7	21 400
48,0	56,9	66,3	19 500
50,0	55,1	64,8	17 800
52,0	53,2	63,2	16 200
54,0	51,3	61,5	14 800
56,0	49,3	59,6	13 400
58,0	47,3	57,6	12 200
60,0	45,2	55,5	11 000
62,0	42,9	53,2	9 900
64,0	40,6	50,7	8 900
66,0	38,2	48,0	7 900



134 260 kg
+
27 220 kg



m	°	m	kg
16,8	82,5	86,1	88 300
18,0	81,7	85,8	81 700
20,0	80,3	85,4	72 300
22,0	78,9	84,9	64 500
24,0	77,5	84,4	58 000
26,0	76,1	83,8	52 300
28,0	74,7	83,2	47 400
30,0	73,2	82,5	43 100
32,0	71,8	81,8	39 300
34,0	70,3	81,0	35 900
36,0	68,9	80,1	32 800
38,0	67,4	79,2	30 100
40,0	65,9	78,2	27 600
42,0	64,3	77,2	25 100
44,0	62,8	76,1	22 800
46,0	61,2	74,9	20 800
48,0	59,6	73,6	18 900
50,0	58,0	72,2	17 200
52,0	56,3	70,8	15 600
54,0	54,6	69,3	14 100
56,0	52,9	67,6	12 800
58,0	51,1	65,9	11 600
60,0	49,3	64,1	10 400
62,0	47,4	62,1	9 300
64,0	45,4	60,0	8 300
66,0	43,4	57,7	7 300
68,0	41,2	55,3	6 400
70,0	39,0	52,7	5 500
72,0	36,6	49,8	4 800