



Liftcrane Boom

Extended Upper Point Capacities

Boom No. 58 HL with 7 m Extended
Upper Boom Point
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 (*).

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.

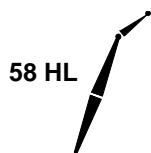
MACHINE EQUIPMENT: Machine equipped with 10 363 mm crawlers, 1 524 mm treads, 9 754 mm live mast, 26 part boom hoist reeving, boom support straps, 101 600 kg crane counterweight and 0 kg carbody counterweight.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
66,0 m	60,0 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



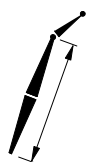
Boom No. 58 Heavy Lift Top
with 7 m Extended Upper
Boom Point



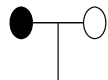
Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Boom Length



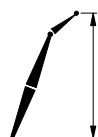
Maximum Wind Speed
(see page 1)



Operating Radius
(see page 1)



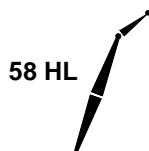
Boom Angle
(see page 1)



Extended Upper
Boom Point elevation
(see page 1)

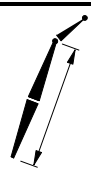
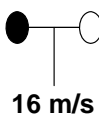


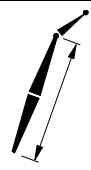
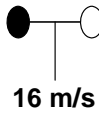
Lifting Capacities
(see page 1)


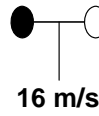


101 600 kg
+
0 kg



 42,0 m  16 m/s			
m	°	m	kg
13,7	80,5	50,0	97 600 *
14,0	80,2	49,9	96 700
16,0	77,7	49,3	88 600
18,0	75,3	48,7	76 000
20,0	72,7	47,9	66 700
22,0	70,2	47,0	58 800
24,0	67,6	46,1	51 400
26,0	64,9	45,0	45 400
28,0	62,2	43,7	40 300
30,0	59,3	42,4	36 000
32,0	56,4	40,9	32 300
34,0	53,3	39,2	29 100
36,0	50,1	37,3	26 200
38,0	46,7	35,2	23 700
40,0	43,0	32,8	21 400
42,0	39,0	30,0	19 400

 48,0 m  16 m/s			
m	°	m	kg
13,7	81,6	56,1	97 600 *
14,0	81,3	56,1	96 100
16,0	79,1	55,6	84 900
18,0	76,9	55,0	73 300
20,0	74,7	54,3	64 300
22,0	72,5	53,5	56 900
24,0	70,2	52,7	50 800
26,0	67,9	51,8	44 900
28,0	65,6	50,7	39 800
30,0	63,1	49,5	35 500
32,0	60,7	48,3	31 800
34,0	58,1	46,9	28 600
36,0	55,5	45,3	25 700
38,0	52,7	43,6	23 200
40,0	49,9	41,8	21 000
42,0	46,9	39,7	18 900
44,0	43,7	37,4	17 100
46,0	40,2	34,8	15 400

 54,0 m  16 m/s			
m	°	m	kg
13,7	82,4	62,3	97 300
14,0	82,2	62,2	95 300
16,0	80,2	61,8	81 500
18,0	78,3	61,2	70 800
20,0	76,3	60,6	62 200
22,0	74,3	60,0	55 100
24,0	72,3	59,2	49 200
26,0	70,3	58,4	44 000
28,0	68,2	57,4	39 600
30,0	66,1	56,4	35 200
32,0	63,9	55,3	31 500
34,0	61,7	54,1	28 300
36,0	59,5	52,8	25 400
38,0	57,1	51,3	22 900
40,0	54,7	49,8	20 600
42,0	52,3	48,1	18 600
44,0	49,7	46,2	16 800
46,0	47,0	44,2	15 100
48,0	44,2	41,9	13 600
50,0	41,1	39,4	12 300
52,0	37,9	36,6	10 900



60,0 m				66,0 m			
16 m/s				16 m/s			
m	°	m	kg	m	°	m	kg
15,2	81,8	68,1	83 000	15,2	82,5	74,2	80 100
16,0	81,1	67,9	78 700	16,0	81,9	74,0	75 900
18,0	79,4	67,4	68 200	18,0	80,2	73,6	65 900
20,0	77,6	66,9	59 900	20,0	78,6	73,1	57 900
22,0	75,8	66,3	53 000	22,0	77,0	72,5	51 200
24,0	74,0	65,6	47 300	24,0	75,3	71,9	45 600
26,0	72,1	64,8	42 300	26,0	73,7	71,2	40 800
28,0	70,3	64,0	38 100	28,0	72,0	70,5	36 700
30,0	68,4	63,1	34 400	30,0	70,3	69,7	33 000
32,0	66,5	62,1	30 900	32,0	68,6	68,8	29 800
34,0	64,5	61,1	27 600	34,0	66,8	67,8	27 000
36,0	62,6	59,9	24 800	36,0	65,1	66,8	24 400
38,0	60,5	58,7	22 300	38,0	63,3	65,7	21 800
40,0	58,5	57,3	20 000	40,0	61,4	64,5	19 500
42,0	56,3	55,8	18 000	42,0	59,6	63,2	17 500
44,0	54,2	54,2	16 200	44,0	57,6	61,8	15 700
46,0	51,9	52,5	14 500	46,0	55,7	60,3	14 100
48,0	49,6	50,7	13 000	48,0	53,7	58,7	12 600
50,0	47,1	48,7	11 600	50,0	51,6	57,0	11 200
52,0	44,6	46,5	10 400	52,0	49,4	55,1	9 900
54,0	41,9	44,0	9 200	54,0	47,2	53,1	8 700
56,0	39,0	41,4	8 000	56,0	44,9	51,0	7 600
				58,0	42,5	48,6	6 600
				60,0	39,9	46,0	5 700
				62,0	37,2	43,2	4 700