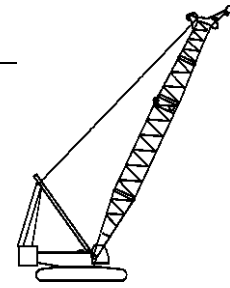




Liftcrane Boom Capacities

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 do not exceed 75% of a static tipping load. 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 jib, load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib 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**, Wire Rope Specification chart **No. 8674-A**, Counterweight Arrangement chart **No. 8682-A** and Wind Conditions chart **No. 8688-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.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8683-A**.



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 and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 133(A)	Boom Length	Jib No. 133(A)
72,0 m	—	66,0 m	—
66,0 m	—	60,0 m	—
60,0 m	—	54,0 m	—
54,0 m	27,4 m	48,0 m	27,4 m
48,0 m	39,6 m	42,0 m	39,6 m
42,0 m	42,7 m		

Load block, hook and weight ball on ground at start.

Consult chart No. 8955-AM for jib capacities.

Upper boom point cannot be used when jib is attached.

Third Line Deduct

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

Boom Catwalks Deduct

Deduct 300 kg from capacities when boom catwalks are attached.

Deduct From Capacities When Jib Is Attached

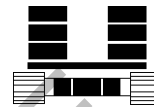
Jib Length	Jib No. 133(A)
21,3 m	17 300 kg
24,4 m	20 900 kg
27,4 m	24 400 kg
30,5 m	26 400 kg
33,5 m	29 600 kg
36,6 m	33 600 kg
39,6 m	37 600 kg
42,7 m	41 900 kg

Weight of jib and 3 700 kg suspended beneath jib point have been included in deduct.

Explanation of Symbols



Boom No. 58 Heavy Lift Top



Crane Counterweight
+
Carbody Counterweight



360 Degree Rating



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



Boom Length

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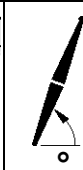
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58 HL   101 600 kg
+
0 kg 

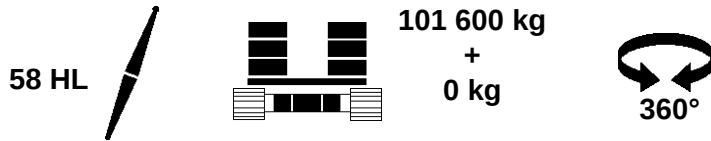
				kg
m	o	m		
 30,0 m				
6,4	82,9	32,3	372 000 *	
7,0	81,7	32,2	341 000	
8,0	79,8	32,0	270 300	
9,0	77,8	31,7	215 900	
10,0	75,8	31,5	179 000	
11,0	73,8	31,2	152 300	
12,0	71,8	30,8	131 900	
14,0	67,7	30,0	103 200	
16,0	63,4	29,0	83 900	
18,0	59,0	27,8	70 000	
20,0	54,3	26,3	59 500	
22,0	49,2	24,6	51 300	
24,0	43,8	22,6	44 600	
26,0	37,6	20,1	39 200	
28,0	30,4	16,8	34 500	
30,0	20,7	12,2	30 500	

				kg
m	o	m		
 36,0 m				
7,3	82,6	38,2	326 500	
8,0	81,5	38,1	271 200	
9,0	79,9	37,9	216 500	
10,0	78,3	37,7	179 400	
11,0	76,6	37,4	152 600	
12,0	75,0	37,1	132 200	
14,0	71,6	36,5	103 400	
16,0	68,2	35,7	84 000	
18,0	64,6	34,7	70 100	
20,0	61,0	33,6	59 600	
22,0	57,2	32,3	51 300	
24,0	53,3	30,8	44 700	
26,0	49,1	29,1	39 300	
28,0	44,6	27,1	34 700	
30,0	39,6	24,7	30 800	
32,0	34,1	21,9	27 400	
34,0	27,5	18,2	24 500	
36,0	18,7	13,1	21 900	

				kg
m	o	m		
 42,0 m				
7,9	82,8	44,2	277 300	
8,0	82,7	44,2	272 700	
9,0	81,3	44,0	217 100	
10,0	80,0	43,8	180 000	
11,0	78,6	43,6	153 000	
12,0	77,2	43,4	132 600	
14,0	74,3	42,8	103 700	
16,0	71,4	42,1	84 200	
18,0	68,5	41,3	70 300	
20,0	65,5	40,4	59 800	
22,0	62,4	39,4	51 500	
24,0	59,3	38,2	44 900	
26,0	56,0	36,8	39 400	
28,0	52,5	35,3	34 900	
30,0	48,9	33,6	31 000	
32,0	45,1	31,6	27 700	
34,0	41,0	29,3	24 700	
36,0	36,5	26,7	22 200	
38,0	31,4	23,5	19 900	
40,0	25,3	19,6	17 900	

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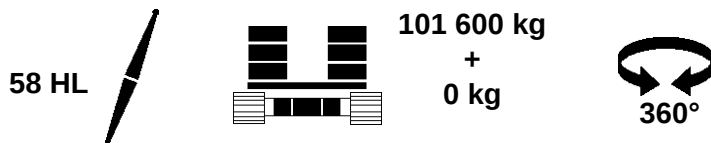
m	o	m	kg
48,0 m			
8,5	83,0	50,2	240 400
9,0	82,4	50,1	218 200
10,0	81,2	49,9	180 100
11,0	80,0	49,7	153 100
12,0	78,8	49,5	132 600
14,0	76,3	49,0	103 600
16,0	73,8	48,5	84 000
18,0	71,3	47,8	70 000
20,0	68,8	47,0	59 400
22,0	66,2	46,1	51 100
24,0	63,5	45,1	44 500
26,0	60,7	44,0	39 000
28,0	57,9	42,7	34 500
30,0	55,0	41,3	30 600
32,0	52,0	39,8	27 300
34,0	48,8	38,0	24 400
36,0	45,5	36,1	21 900
38,0	42,0	33,9	19 600
40,0	38,1	31,4	17 600
42,0	33,9	28,5	15 800
44,0	29,2	25,1	14 100
46,0	23,5	20,8	12 600

m	o	m	kg
54,0 m			
9,8	82,5	56,0	188 500
10,0	82,2	56,0	180 800
11,0	81,1	55,8	153 200
12,0	80,1	55,7	132 600
14,0	77,9	55,2	103 500
16,0	75,7	54,7	83 900
18,0	73,5	54,1	69 900
20,0	71,2	53,4	59 300
22,0	69,0	52,7	51 000
24,0	66,7	51,8	44 300
26,0	64,3	50,8	38 900
28,0	61,9	49,7	34 300
30,0	59,4	48,6	30 400
32,0	56,9	47,3	27 100
34,0	54,3	45,8	24 200
36,0	51,6	44,2	21 600
38,0	48,8	42,5	19 400
40,0	45,8	40,6	17 400
42,0	42,7	38,4	15 600
44,0	39,4	36,0	13 900
46,0	35,8	33,3	12 500
48,0	31,9	30,2	11 100
50,0	27,4	26,5	9 900
52,0	22,1	21,9	8 700

m	o	m	kg
60,0 m			
10,4	82,6	62,0	169 500
11,0	82,0	61,9	153 100
12,0	81,1	61,8	132 500
14,0	79,1	61,4	103 200
16,0	77,2	60,9	83 600
18,0	75,2	60,4	69 500
20,0	73,2	59,8	58 800
22,0	71,2	59,1	50 500
24,0	69,1	58,3	43 800
26,0	67,0	57,5	38 400
28,0	64,9	56,5	33 800
30,0	62,8	55,5	29 900
32,0	60,6	54,4	26 500
34,0	58,4	53,1	23 700
36,0	56,1	51,8	21 100
38,0	53,7	50,3	18 800
40,0	51,2	48,7	16 800
42,0	48,7	47,0	15 000
44,0	46,1	45,1	13 400
46,0	43,3	43,0	11 900
48,0	40,4	40,6	10 600
50,0	37,2	38,0	9 300
52,0	33,9	35,1	8 200
54,0	30,1	31,8	7 100
56,0	25,9	27,8	6 200
58,0	20,9	23,0	5 200

16000 S-1

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m	o	m	kg
11,0	82,8	68,0	153 700
12,0	81,9	67,8	132 300
14,0	80,1	67,5	103 000
16,0	78,3	67,1	83 300
18,0	76,6	66,6	69 200
20,0	74,8	66,0	58 500
22,0	72,9	65,4	50 200
24,0	71,1	64,7	43 500
26,0	69,3	64,0	38 000
28,0	67,4	63,1	33 400
30,0	65,5	62,2	29 500
32,0	63,5	61,2	26 200
34,0	61,5	60,1	23 200
36,0	59,5	59,0	20 700
38,0	57,5	57,7	18 400
40,0	55,4	56,3	16 500
42,0	53,2	54,8	14 600
44,0	51,0	53,2	13 000
46,0	48,7	51,5	11 500
48,0	46,3	49,5	10 200
50,0	43,8	47,5	9 000
52,0	41,1	45,2	7 800
54,0	38,4	42,7	6 800
56,0	35,4	40,0	5 800
58,0	32,2	36,8	4 900
60,0	28,7	33,3	4 100

m	o	m	kg
11,6	82,9	74,0	140 200
12,0	82,6	73,9	132 300
14,0	81,0	73,6	102 700
16,0	79,3	73,2	82 900
18,0	77,7	72,8	68 700
20,0	76,1	72,3	58 000
22,0	74,4	71,7	49 700
24,0	72,7	71,1	42 900
26,0	71,1	70,4	37 400
28,0	69,4	69,6	32 800
30,0	67,6	68,8	28 900
32,0	65,9	67,9	25 500
34,0	64,1	66,9	22 600
36,0	62,3	65,9	20 100
38,0	60,5	64,8	17 800
40,0	58,6	63,5	15 800
42,0	56,7	62,2	14 000
44,0	54,8	60,8	12 300
46,0	52,8	59,3	10 900
48,0	50,7	57,7	9 500
50,0	48,6	55,9	8 300
52,0	46,4	54,0	7 200
54,0	44,2	52,0	6 100
56,0	41,8	49,8	5 200
58,0	39,3	47,3	4 300