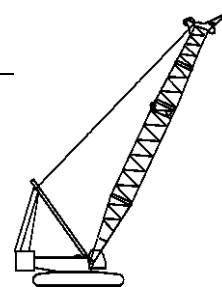




Liftcrane Boom Capacities

Boom No. 58 HL
150 590 kg Crane Counterweight
54 430 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing



16000 SERIES 3

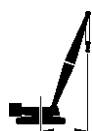


LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load over end of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

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. Drive and idler tumblers must be properly blocked so that centerline of tumblers becomes tipping fulcrum. Swing is limited to that sector shown on Operating Range Diagram **No. 8707-A**. 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, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.



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, 150 590 kg crane counterweight, two 13 610 kg and four 6 800 kg carbody counterweights.

Maximum Boom and Jib Lengths Lifted Unassisted

Over End of Blocked Crawlers	
Boom Length	Jib No. 133(A)
(a)(b) 96,0 m	—
90,0 m	—
84,0 m	—
78,0 m	—
72,0 m	24,4 m
66,0 m	39,6 m
60,0 m	42,7 m
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be attached on 96,0 m boom. (b) When equipped with boom catwalks, boom butt mounted auxiliary drum must be removed for 96,0 m boom.	

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.

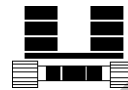
**Deduct From Capacities
When Jib Is Attached**

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

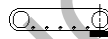
Weight of jib and 3 700 kg suspended beneath jib point have been included in deduct.

Explanation of Symbols

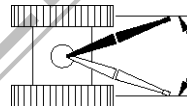

Boom No. 58 Heavy Lift Top



Crane Counterweight
+
Carbody Counterweight



Rating Over End of
Blocked Crawlers



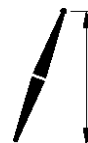
Limited Swing Area



Operating Radius
(see page 1)



Boom Angle
(see page 1)



Boom Point Elevation
(see page 1)



Lifting Capacities
(see page 1)



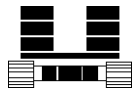
Boom Length

16000 S-3

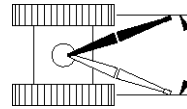
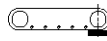
ANSI B30.5



58 HL



150 590 kg
+
54 430 kg



m	o	m	kg
30,0 m			
6,4	82,9	32,3	400 000 *
7,0	81,7	32,2	368 300 *
8,0	79,8	32,0	323 800 *
9,0	77,8	31,7	288 400 *
10,0	75,8	31,5	256 400 *
11,0	73,8	31,2	230 300 *
12,0	71,8	30,8	208 700 *
14,0	67,7	30,0	175 200 *
16,0	63,4	29,0	149 800 *
18,0	59,0	27,8	127 800
20,0	54,3	26,3	109 300
22,0	49,2	24,6	94 900
24,0	43,8	22,6	83 600
26,0	37,6	20,1	74 300
28,0	30,4	16,8	66 500
30,0	20,7	12,2	59 900

m	o	m	kg
36,0 m			
7,3	82,6	38,2	351 500 *
8,0	81,5	38,1	323 300 *
9,0	79,9	37,9	288 000 *
10,0	78,3	37,7	256 100 *
11,0	76,6	37,4	230 000 *
12,0	75,0	37,1	208 400 *
14,0	71,6	36,5	174 700 *
16,0	68,2	35,7	148 000 *
18,0	64,6	34,7	127 500
20,0	61,0	33,6	109 400
22,0	57,2	32,3	95 100
24,0	53,3	30,8	83 700
26,0	49,1	29,1	74 400
28,0	44,6	27,1	66 700
30,0	39,6	24,7	60 200
32,0	34,1	21,9	54 600
34,0	27,5	18,2	49 800
36,0	18,7	13,1	45 400

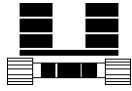
m	o	m	kg
42,0 m			
7,9	82,8	44,2	283 800 *
8,0	82,7	44,2	283 400 *
9,0	81,3	44,0	279 000 *
10,0	80,0	43,8	256 600 *
11,0	78,6	43,6	229 900 *
12,0	77,2	43,4	208 300 *
14,0	74,3	42,8	173 400 *
16,0	71,4	42,1	146 600 *
18,0	68,5	41,3	126 400 *
20,0	65,5	40,4	109 700
22,0	62,4	39,4	95 300
24,0	59,3	38,2	83 900
26,0	56,0	36,8	74 700
28,0	52,5	35,3	67 000
30,0	48,9	33,6	60 500
32,0	45,1	31,6	54 900
34,0	41,0	29,3	50 100
36,0	36,5	26,7	45 800
38,0	31,4	23,5	42 100
40,0	25,3	19,6	38 800

16000 S-3

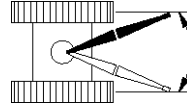
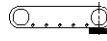
ANSI B30.5



58 HL



150 590 kg
+
54 430 kg



m	o	m	kg
48,0 m			
8,5	83,0	50,2	270 700 *
9,0	82,4	50,1	269 300 *
10,0	81,2	49,9	257 200 *
11,0	80,0	49,7	229 300 *
12,0	78,8	49,5	207 700 *
14,0	76,3	49,0	171 400 *
16,0	73,8	48,5	144 900 *
18,0	71,3	47,8	124 800 *
20,0	68,8	47,0	109 000
22,0	66,2	46,1	95 100
24,0	63,5	45,1	83 600
26,0	60,7	44,0	74 400
28,0	57,9	42,7	66 700
30,0	55,0	41,3	60 100
32,0	52,0	39,8	54 600
34,0	48,8	38,0	49 700
36,0	45,5	36,1	45 500
38,0	42,0	33,9	41 800
40,0	38,1	31,4	38 500
42,0	33,9	28,5	35 500
44,0	29,2	25,1	32 800
46,0	23,5	20,8	30 400

m	o	m	kg
54,0 m			
9,8	82,5	56,0	219 000 *
10,0	82,2	56,0	216 100 *
11,0	81,1	55,8	204 600 *
12,0	80,1	55,7	193 900 *
14,0	77,9	55,2	170 700 *
16,0	75,7	54,7	143 600 *
18,0	73,5	54,1	123 700 *
20,0	71,2	53,4	108 000 *
22,0	69,0	52,7	95 100
24,0	66,7	51,8	83 500
26,0	64,3	50,8	74 200
28,0	61,9	49,7	66 500
30,0	59,4	48,6	60 000
32,0	56,9	47,3	54 400
34,0	54,3	45,8	49 500
36,0	51,6	44,2	45 300
38,0	48,8	42,5	41 600
40,0	45,8	40,6	38 300
42,0	42,7	38,4	35 400
44,0	39,4	36,0	32 700
46,0	35,8	33,3	30 300
48,0	31,9	30,2	28 100
50,0	27,4	26,5	26 100
52,0	22,1	21,9	24 000 *

m	o	m	kg
60,0 m			
10,4	82,6	62,0	197 500 *
11,0	82,0	61,9	191 300 *
12,0	81,1	61,8	181 900 *
14,0	79,1	61,4	163 700 *
16,0	77,2	60,9	142 800 *
18,0	75,2	60,4	122 200 *
20,0	73,2	59,8	106 600 *
22,0	71,2	59,1	94 000
24,0	69,1	58,3	83 200
26,0	67,0	57,5	73 800
28,0	64,9	56,5	66 000
30,0	62,8	55,5	59 500
32,0	60,6	54,4	53 900
34,0	58,4	53,1	49 000
36,0	56,1	51,8	44 800
38,0	53,7	50,3	41 100
40,0	51,2	48,7	37 800
42,0	48,7	47,0	34 800
44,0	46,1	45,1	32 200
46,0	43,3	43,0	29 800
48,0	40,4	40,6	27 600
50,0	37,2	38,0	25 600
52,0	33,9	35,1	23 700 *
54,0	30,1	31,8	21 700 *
56,0	25,9	27,8	19 800 *
58,0	20,9	23,0	17 900 *

16000 S-3

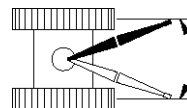
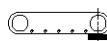
ANSI B30.5



58 HL



150 590 kg
+
54 430 kg



m	o	m	kg
66,0 m			
11,0	82,8	68,0	167 100 *
12,0	81,9	67,8	159 600 *
14,0	80,1	67,5	145 900 *
16,0	78,3	67,1	133 700 *
18,0	76,6	66,6	120 800 *
20,0	74,8	66,0	105 500 *
22,0	72,9	65,4	92 900 *
24,0	71,1	64,7	82 600
26,0	69,3	64,0	73 400
28,0	67,4	63,1	65 600
30,0	65,5	62,2	59 100
32,0	63,5	61,2	53 500
34,0	61,5	60,1	48 700
36,0	59,5	59,0	44 400
38,0	57,5	57,7	40 700
40,0	55,4	56,3	37 400
42,0	53,2	54,8	34 500
44,0	51,0	53,2	31 800
46,0	48,7	51,5	29 400
48,0	46,3	49,5	27 200
50,0	43,8	47,5	25 200
52,0	41,1	45,2	23 300 *
54,0	38,4	42,7	21 300 *
56,0	35,4	40,0	19 600 *
58,0	32,2	36,8	17 800 *
60,0	28,7	33,3	16 200 *
62,0	24,6	29,1	14 700 *
64,0	19,9	24,0	13 200 *

m	o	m	kg
72,0 m			
11,6	82,9	74,0	149 900 *
12,0	82,6	73,9	147 000 *
14,0	81,0	73,6	134 000 *
16,0	79,3	73,2	122 400 *
18,0	77,7	72,8	111 900 *
20,0	76,1	72,3	102 400 *
22,0	74,4	71,7	91 900 *
24,0	72,7	71,1	81 400 *
26,0	71,1	70,4	72 700
28,0	69,4	69,6	65 100
30,0	67,6	68,8	58 500
32,0	65,9	67,9	52 900
34,0	64,1	66,9	48 100
36,0	62,3	65,9	43 900
38,0	60,5	64,8	40 100
40,0	58,6	63,5	36 800
42,0	56,7	62,2	33 800
44,0	54,8	60,8	31 200
46,0	52,8	59,3	28 800
48,0	50,7	57,7	26 500 *
50,0	48,6	55,9	24 300 *
52,0	46,4	54,0	22 300 *
54,0	44,2	52,0	20 500 *
56,0	41,8	49,8	18 700 *
58,0	39,3	47,3	17 100 *
60,0	36,6	44,7	15 500 *
62,0	33,8	41,8	14 100 *
64,0	30,7	38,5	12 700 *
66,0	27,4	34,7	11 400 *
68,0	23,5	30,4	10 100 *
70,0	19,0	25,0	8 800 *

m	o	m	kg
78,0 m			
12,2	83,0	79,9	137 300 *
14,0	81,7	79,7	129 700 *
16,0	80,2	79,3	121 800 *
18,0	78,7	78,9	114 400 *
20,0	77,2	78,5	103 500 *
22,0	75,6	77,9	90 800 *
24,0	74,1	77,4	80 500 *
26,0	72,6	76,7	71 900 *
28,0	71,0	76,1	64 500
30,0	69,5	75,3	58 100
32,0	67,9	74,5	52 400
34,0	66,3	73,6	47 600
36,0	64,6	72,7	43 300
38,0	63,0	71,6	39 600
40,0	61,3	70,5	36 300
42,0	59,6	69,4	33 300
44,0	57,9	68,1	30 600
46,0	56,1	66,8	28 000 *
48,0	54,3	65,3	25 700 *
50,0	52,4	63,8	23 500 *
52,0	50,5	62,2	21 500 *
54,0	48,6	60,4	19 700 *
56,0	46,6	58,5	18 000 *
58,0	44,5	56,5	16 300 *
60,0	42,3	54,3	14 800 *
62,0	40,0	52,0	13 400 *
64,0	37,6	49,4	12 100 *
66,0	35,1	46,6	10 800 *
68,0	32,4	43,5	9 500 *
70,0	29,5	40,0	8 400 *
72,0	26,2	36,1	7 300 *
74,0	22,6	31,5	6 200 *
76,0	18,2	25,9	5 100 *

16000 S-3

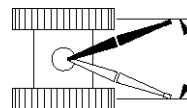
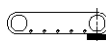
ANSI B30.5



58 HL



150 590 kg
+
54 430 kg



m	o	m	kg
84,0 m			
13,7	82,5	85,8	114 300 *
14,0	82,3	85,7	113 700 *
16,0	80,9	85,4	110 000 *
18,0	79,5	85,1	105 100 *
20,0	78,1	84,6	98 500 *
22,0	76,7	84,2	89 900 *
24,0	75,3	83,6	79 200 *
26,0	73,9	83,0	70 600 *
28,0	72,4	82,4	63 300 *
30,0	71,0	81,7	57 000 *
32,0	69,5	81,0	51 600 *
34,0	68,1	80,2	46 800 *
36,0	66,6	79,3	42 500 *
38,0	65,1	78,3	38 700 *
40,0	63,5	77,3	35 300 *
42,0	62,0	76,3	32 300 *
44,0	60,4	75,2	29 500 *
46,0	58,8	73,9	26 900 *
48,0	57,2	72,7	24 600 *
50,0	55,6	71,3	22 400 *
52,0	53,9	69,8	20 500 *
54,0	52,1	68,3	18 600 *
56,0	50,4	66,6	16 900 *
58,0	48,6	64,9	15 300 *
60,0	46,7	63,0	13 800 *
62,0	44,8	61,0	12 400 *
64,0	42,8	58,8	11 100 *
66,0	40,7	56,5	9 900 *
68,0	38,5	54,0	8 700 *
70,0	36,2	51,3	7 600 *
72,0	33,8	48,4	6 500 *
74,0	31,2	45,2	5 500 *
76,0	28,4	41,5	4 500 *

m	o	m	kg
90,0 m			
13,7	83,0	91,8	95 900 *
14,0	82,8	91,8	95 500 *
16,0	81,5	91,5	92 300 *
18,0	80,2	91,2	89 400 *
20,0	78,9	90,8	86 700 *
22,0	77,6	90,3	84 000 *
24,0	76,3	89,8	78 600 *
26,0	75,0	89,3	69 800 *
28,0	73,6	88,7	62 500 *
30,0	72,3	88,1	56 200 *
32,0	71,0	87,4	50 800 *
34,0	69,6	86,6	46 000 *
36,0	68,2	85,8	41 700 *
38,0	66,8	85,0	38 000 *
40,0	65,4	84,0	34 500 *
42,0	64,0	83,1	31 500 *
44,0	62,6	82,0	28 700 *
46,0	61,1	80,9	26 100 *
48,0	59,7	79,7	23 800 *
50,0	58,2	78,5	21 700 *
52,0	56,6	77,2	19 700 *
54,0	55,1	75,8	17 900 *
56,0	53,5	74,3	16 200 *
58,0	51,9	72,8	14 600 *
60,0	50,2	71,1	13 100 *
62,0	48,5	69,3	11 800 *
64,0	46,8	67,5	10 400 *
66,0	45,0	65,5	9 200 *
68,0	43,1	63,3	8 100 *
70,0	41,2	61,1	6 900 *
72,0	39,2	58,7	5 900 *
74,0	37,1	56,0	4 900 *
76,0	34,9	53,2	3 900 *

m	o	m	kg
96,0 m			
15,2	82,5	97,7	80 900 *
16,0	82,0	97,6	79 800 *
18,0	80,8	97,2	77 200 *
20,0	79,6	96,9	74 800 *
22,0	78,4	96,5	72 500 *
24,0	77,2	96,0	70 100 *
26,0	75,9	95,5	67 900 *
28,0	74,7	94,9	61 500 *
30,0	73,4	94,4	55 100 *
32,0	72,2	93,7	49 600 *
34,0	70,9	93,0	44 800 *
36,0	69,7	92,3	40 600 *
38,0	68,4	91,5	36 800 *
40,0	67,1	90,6	33 400 *
42,0	65,8	89,7	30 300 *
44,0	64,4	88,8	27 600 *
46,0	63,1	87,7	25 100 *
48,0	61,7	86,7	22 700 *
50,0	60,4	85,5	20 600 *
52,0	59,0	84,3	18 600 *
54,0	57,6	83,1	16 800 *
56,0	56,1	81,7	15 100 *
58,0	54,7	80,3	13 500 *
60,0	53,2	78,8	12 100 *
62,0	51,7	77,2	10 700 *
64,0	50,1	75,6	9 400 *
66,0	48,5	73,8	8 200 *
68,0	46,9	71,9	7 000 *
70,0	45,2	70,0	5 900 *
72,0	43,5	67,9	4 900 *
74,0	41,7	65,6	3 900 *