

Liftcrane Boom Capacities

Boom No. 55 or No. 55A with 42,7 m Mast No. 56

223 170 kg Crane Counterweight

145 150 kg Carbody Counterweight

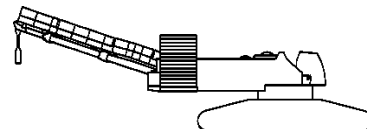
0 kg Hanging Counterweight

at 18 m Position

Rating Over End of Blocked Crawlers

No Travel - Limited Swing

18000 With 21000 MAX-ER



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 (*).

Exit MAX-ER mode before operating without hanging counterweight.

Simultaneous hoisting of both load drums is required for even block travel.

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 with mast up. Drive or 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. 8933-A**. Refer to boom rigging **No. A05377**, Wire Rope Specification chart **No. 8573-A or 8573-B** and Counterweight Arrangement chart **No. 8577-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 operators 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 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 MAX-ER, 11 811 mm crawlers, 1 524 mm treads, 9,1 m live mast, 42,7 m mast, 16 part boom hoist reeving, boom support straps, 223 170 kg crane counterweight, 145 150 kg carbody counterweight and 0 kg hanging counterweight.

Boom Catwalks Deduct

Deduct 400 kg from capacities when boom catwalks are attached.

Deduct From Capacities When Jib is Attached	
Jib Length	Jib No. 79A
15,2 m	48 100 kg
21,3 m	56 100 kg
27,4 m	65 200 kg
33,5 m	72 300 kg
Weight of jib and 12 300 kg suspended beneath jib point sheaves have been included in deduct.	

Consult jib chart No. 8665-AM for jib capacities.

Upper boom point cannot be used when boom is attached.

Upper Boom Point Capacity For Liftcrane Service - Whip Line		
28 mm		32 mm
Drum 2	Drum 3	Drum 2
Single Part Line		
16 240 kg	13 610 kg	22 140 kg
Two Part Line		
Upper Boom Point No. 170419		
27 220 kg	27 220 kg	27 220 kg
Upper Boom Point No. A08516		
32 480 kg	27 220 kg	44 270 kg
In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.		

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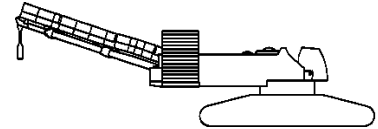
145 150 kg Carbody Counterweight

0 kg Hanging Counterweight
at 18 m Position

Rating Over End of Blocked Crawlers

No Travel - Limited Swing

**18000 With
21000 MAX-ER**



Maximum Boom Length Lifted Unassisted Over End of Blocked Crawlers With 0 kg Hanging Counterweight	
Boom Length	Jib Length
103,6 m	—
97,5 m	—
91,4 m	—
85,3 m	—
79,2 m	—
73,2 m	—
67,1 m	15,2 m
61,0 m	27,4 m
54,9 m	33,5 m
Load block, hook and weight ball on ground at start.	

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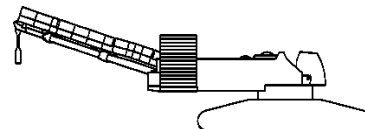
0 kg Hanging Counterweight

at 18 m Position

Rating Over End of Blocked Crawlers

No Travel - Limited Swing

18000 With 21000 MAX-ER



Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42,7 m Boom			
8,5	82,6	45,6	500 500 *
10,0	80,6	45,3	427 800 *
12,0	77,8	44,8	355 800 *
14,0	75,0	44,3	303 200 *
16,0	72,2	43,6	260 500 *
18,0	69,3	42,8	227 300 *
20,0	66,4	42,0	201 000 *
22,0	63,3	40,9	179 600 *
24,0	60,2	39,8	161 900 *
26,0	57,0	38,5	146 900 *
28,0	53,7	37,0	134 100 *
30,0	50,2	35,3	123 000 *
32,0	46,5	33,4	113 400 *
34,0	42,5	31,2	104 800 *
36,0	38,2	28,6	97 200 *
38,0	33,3	25,6	89 700 *
40,0	27,7	22,0	82 600 *
42,0	20,6	17,0	76 200 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48,8 m Boom			
9,1	82,8	51,7	465 800 *
10,0	81,7	51,5	426 000 *
12,0	79,4	51,1	354 100 *
14,0	76,9	50,6	301 600 *
16,0	74,5	50,0	259 000 *
18,0	72,0	49,4	225 800 *
20,0	69,5	48,6	199 600 *
22,0	66,9	47,8	178 200 *
24,0	64,3	46,8	160 400 *
26,0	61,6	45,7	145 500 *
28,0	58,9	44,4	132 700 *
30,0	56,0	43,1	121 700 *
32,0	53,1	41,6	112 000 *
34,0	50,0	39,9	103 500 *
36,0	46,8	38,0	96 000 *
38,0	43,4	35,9	88 900 *
40,0	39,7	33,5	82 000 *
42,0	35,7	30,7	75 800 *
44,0	31,2	27,5	70 100 *
46,0	26,0	23,5	64 800 *
48,0	19,5	18,3	59 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54,9 m Boom			
9,8	82,9	57,7	435 400 *
10,0	82,7	57,7	425 000 *
12,0	80,6	57,3	352 800 *
14,0	78,4	56,9	300 300 *
16,0	76,3	56,4	257 900 *
18,0	74,1	55,8	224 800 *
20,0	71,9	55,1	198 500 *
22,0	69,7	54,4	177 100 *
24,0	67,4	53,5	159 400 *
26,0	65,1	52,6	144 500 *
28,0	62,7	51,5	131 700 *
30,0	60,3	50,4	120 700 *
32,0	57,8	49,1	111 000 *
34,0	55,3	47,7	102 500 *
36,0	52,6	46,2	95 000 *
38,0	49,9	44,5	88 200 *
40,0	47,0	42,6	81 500 *
42,0	44,0	40,5	75 300 *
44,0	40,9	38,2	69 600 *
46,0	37,4	35,6	64 400 *
48,0	33,7	32,7	59 700 *
50,0	29,5	29,2	55 300 *
52,0	24,7	25,0	51 100 *
54,0	18,6	19,5	47 200 *

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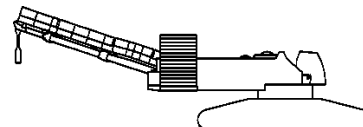
145 150 kg Carbody Counterweight

 0 kg Hanging Counterweight
at 18 m Position

Rating Over End of Blocked Crawlers

No Travel - Limited Swing

18000 With 21000 MAX-ER



Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61,0 m Boom			
11,0	82,5	63,7	385 100 *
12,0	81,5	63,5	351 200 *
14,0	79,6	63,2	298 700 *
16,0	77,7	62,7	256 500 *
18,0	75,7	62,2	223 300 *
20,0	73,8	61,6	197 000 *
22,0	71,8	60,9	175 600 *
24,0	69,8	60,1	157 900 *
26,0	67,7	59,3	142 900 *
28,0	65,7	58,4	130 100 *
30,0	63,6	57,4	119 000 *
32,0	61,4	56,3	109 400 *
34,0	59,2	55,1	100 900 *
36,0	57,0	53,8	93 300 *
38,0	54,7	52,3	86 600 *
40,0	52,3	50,8	80 000 *
42,0	49,8	49,1	73 800 *
44,0	47,2	47,2	68 100 *
46,0	44,6	45,2	62 900 *
48,0	41,7	42,9	58 200 *
50,0	38,7	40,5	53 800 *
52,0	35,5	37,7	49 700 *
54,0	32,0	34,5	45 900 *
56,0	28,1	30,9	42 400 *
58,0	23,6	26,5	39 000 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67,1 m Boom			
11,6	82,6	69,8	362 600 *
12,0	82,3	69,7	349 800 *
14,0	80,6	69,4	297 000 *
16,0	78,8	68,9	255 000 *
18,0	77,1	68,5	221 700 *
20,0	75,3	67,9	195 400 *
22,0	73,5	67,3	174 000 *
24,0	71,7	66,7	156 200 *
26,0	69,9	65,9	141 200 *
28,0	68,0	65,1	128 400 *
30,0	66,2	64,2	117 400 *
32,0	64,2	63,2	107 700 *
34,0	62,3	62,2	99 200 *
36,0	60,3	61,0	91 700 *
38,0	58,3	59,8	84 900 *
40,0	56,3	58,4	78 300 *
42,0	54,2	56,9	72 000 *
44,0	52,0	55,4	66 300 *
46,0	49,7	53,7	61 200 *
48,0	47,4	51,8	56 400 *
50,0	45,0	49,8	52 000 *
52,0	42,5	47,6	48 000 *
54,0	39,8	45,2	44 200 *
56,0	37,0	42,6	40 700 *
58,0	33,9	39,6	37 500 *
60,0	30,6	36,3	34 400 *
62,0	26,9	32,5	31 500 *
64,0	22,6	27,9	28 700 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73,2 m Boom			
12,2	82,8	75,8	342 800 *
14,0	81,4	75,6	296 100 *
16,0	79,8	75,2	254 200 *
18,0	78,2	74,8	220 900 *
20,0	76,5	74,3	194 600 *
22,0	74,9	73,7	173 100 *
24,0	73,3	73,1	155 400 *
26,0	71,6	72,4	140 400 *
28,0	70,0	71,7	127 600 *
30,0	68,3	70,9	116 500 *
32,0	66,6	70,0	106 800 *
34,0	64,8	69,0	98 300 *
36,0	63,1	68,0	90 800 *
38,0	61,3	66,9	84 000 *
40,0	59,4	65,7	77 700 *
42,0	57,6	64,4	71 300 *
44,0	55,7	63,0	65 600 *
46,0	53,7	61,6	60 400 *
48,0	51,7	60,0	55 600 *
50,0	49,7	58,3	51 300 *
52,0	47,5	56,4	47 200 *
54,0	45,3	54,5	43 500 *
56,0	43,0	52,3	40 000 *
58,0	40,6	50,0	36 700 *
60,0	38,1	47,4	33 700 *
62,0	35,4	44,6	30 800 *
64,0	32,5	41,5	28 200 *
66,0	29,4	38,0	25 600 *
68,0	25,9	34,0	23 200 *
70,0	21,8	29,2	20 800 *

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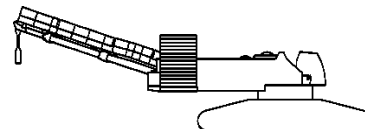
0 kg Hanging Counterweight

at 18 m Position

Rating Over End of Blocked Crawlers

No Travel - Limited Swing

18000 With 21000 MAX-ER



Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79,2 m Boom			
13,7	82,2	81,8	301 000 *
14,0	82,0	81,7	294 800 *
16,0	80,6	81,4	252 600 *
18,0	79,1	81,0	219 200 *
20,0	77,6	80,5	192 900 *
22,0	76,1	80,0	171 400 *
24,0	74,6	79,5	153 600 *
26,0	73,1	78,8	138 700 *
28,0	71,6	78,2	125 800 *
30,0	70,0	77,4	114 700 *
32,0	68,5	76,6	105 100 *
34,0	66,9	75,8	96 600 *
36,0	65,3	74,8	89 000 *
38,0	63,7	73,8	82 200 *
40,0	62,0	72,8	75 800 *
42,0	60,4	71,6	69 400 *
44,0	58,7	70,4	63 700 *
46,0	56,9	69,1	58 400 *
48,0	55,2	67,7	53 700 *
50,0	53,4	66,2	49 300 *
52,0	51,5	64,6	45 200 *
54,0	49,6	62,9	41 500 *
56,0	47,7	61,0	38 000 *
58,0	45,6	59,1	34 700 *
60,0	43,5	57,0	31 700 *
62,0	41,4	54,7	28 900 *
64,0	39,1	52,2	26 200 *
66,0	36,6	49,6	23 700 *
68,0	34,1	46,6	21 300 *
70,0	31,3	43,4	19 000 *
72,0	28,3	39,7	16 900 *
74,0	25,0	35,5	14 800 *
76,0	21,1	30,6	12 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
85,3 m Boom			
13,7	82,8	87,9	299 800 *
14,0	82,6	87,9	293 600 *
16,0	81,2	87,6	251 600 *
18,0	79,9	87,2	218 100 *
20,0	78,5	86,8	191 800 *
22,0	77,1	86,3	170 300 *
24,0	75,7	85,8	152 500 *
26,0	74,3	85,2	137 600 *
28,0	72,9	84,6	124 700 *
30,0	71,5	83,9	113 600 *
32,0	70,1	83,2	104 000 *
34,0	68,6	82,4	95 500 *
36,0	67,2	81,5	87 900 *
38,0	65,7	80,6	81 100 *
40,0	64,2	79,7	74 700 *
42,0	62,7	78,6	68 400 *
44,0	61,2	77,5	62 600 *
46,0	59,6	76,3	57 400 *
48,0	58,0	75,1	52 600 *
50,0	56,4	73,7	48 200 *
52,0	54,7	72,3	44 100 *
54,0	53,1	70,8	40 300 *
56,0	51,3	69,2	36 900 *
58,0	49,6	67,5	33 600 *
60,0	47,8	65,6	30 600 *
62,0	45,9	63,7	27 700 *
64,0	44,0	61,6	25 100 *
66,0	41,9	59,4	22 600 *
68,0	39,9	57,0	20 200 *
70,0	37,7	54,4	18 000 *
72,0	35,3	51,6	15 800 *
74,0	32,9	48,5	13 900 *
76,0	30,2	45,2	11 900 *
78,0	27,4	41,4	10 000 *
80,0	24,2	37,0	8 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
91,4 m Boom			
15,2	82,3	93,9	264 800 *
16,0	81,8	93,8	250 400 *
18,0	80,6	93,4	216 400 *
20,0	79,3	93,0	190 100 *
22,0	78,0	92,6	168 600 *
24,0	76,7	92,1	150 700 *
26,0	75,4	91,6	135 700 *
28,0	74,1	91,0	122 900 *
30,0	72,8	90,4	111 800 *
32,0	71,5	89,7	102 200 *
34,0	70,1	88,9	93 600 *
36,0	68,8	88,2	86 100 *
38,0	67,4	87,3	79 300 *
40,0	66,1	86,4	72 700 *
42,0	64,7	85,5	66 300 *
44,0	63,3	84,4	60 500 *
46,0	61,8	83,4	55 300 *
48,0	60,4	82,2	50 400 *
50,0	58,9	81,0	46 100 *
52,0	57,4	79,7	42 000 *
54,0	55,9	78,4	38 200 *
56,0	54,4	76,9	34 700 *
58,0	52,8	75,4	31 500 *
60,0	51,2	73,8	28 500 *
62,0	49,5	72,1	25 600 *
64,0	47,8	70,2	23 000 *
66,0	46,1	68,3	20 400 *
68,0	44,3	66,3	18 100 *
70,0	42,5	64,1	15 800 *
72,0	40,5	61,7	13 700 *
74,0	38,5	59,2	11 700 *
76,0	36,4	56,5	9 800 *
78,0	34,2	53,6	8 000 *

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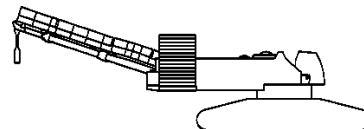
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at 18 m Position

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
97,5 m Boom			
15,2	82,8	100,0	255 000 *
16,0	82,3	99,9	245 600 *
18,0	81,2	99,6	217 300 *
20,0	80,0	99,2	190 200 *
22,0	78,8	98,8	168 700 *
24,0	77,6	98,4	150 900 *
26,0	76,3	97,9	135 900 *
28,0	75,1	97,3	123 100 *
30,0	73,9	96,8	112 000 *
32,0	72,7	96,1	102 300 *
34,0	71,4	95,4	93 800 *
36,0	70,2	94,7	86 200 *
38,0	68,9	93,9	79 500 *
40,0	67,6	93,1	73 300 *
42,0	66,4	92,2	66 800 *
44,0	65,1	91,3	61 000 *
46,0	63,8	90,3	55 800 *
48,0	62,4	89,2	51 000 *
50,0	61,1	88,1	46 600 *
52,0	59,7	86,9	42 500 *
54,0	58,3	85,7	38 700 *
56,0	56,9	84,4	35 200 *
58,0	55,5	83,0	32 000 *
60,0	54,0	81,5	29 000 *
62,0	52,6	80,0	26 100 *
64,0	51,0	78,4	23 500 *
66,0	49,5	76,7	21 000 *
68,0	47,9	74,8	18 600 *
70,0	46,3	72,9	16 400 *
72,0	44,6	70,9	14 300 *
74,0	42,9	68,8	12 300 *
76,0	41,1	66,5	10 400 *
78,0	39,2	64,0	8 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
103,6 m Boom			
16,8	82,4	106,0	223 100 *
18,0	81,7	105,8	213 000 *
20,0	80,6	105,4	188 400 *
22,0	79,4	105,1	166 900 *
24,0	78,3	104,6	149 100 *
26,0	77,2	104,2	134 100 *
28,0	76,0	103,7	121 300 *
30,0	74,9	103,1	110 100 *
32,0	73,7	102,5	100 500 *
34,0	72,6	101,9	92 000 *
36,0	71,4	101,2	84 400 *
38,0	70,2	100,5	77 600 *
40,0	69,0	99,7	71 200 *
42,0	67,8	98,9	64 700 *
44,0	66,6	98,0	58 900 *
46,0	65,4	97,1	53 600 *
48,0	64,2	96,1	48 800 *
50,0	62,9	95,1	44 400 *
52,0	61,7	94,0	40 300 *
54,0	60,4	92,8	36 500 *
56,0	59,1	91,6	33 000 *
58,0	57,8	90,4	29 700 *
60,0	56,5	89,0	26 700 *
62,0	55,1	87,6	23 900 *
64,0	53,8	86,2	21 200 *
66,0	52,4	84,6	18 700 *
68,0	50,9	83,0	16 400 *
70,0	49,5	81,3	14 100 *
72,0	48,0	79,4	12 000 *
74,0	46,5	77,6	10 000 *
76,0	44,9	75,5	8 200 *