

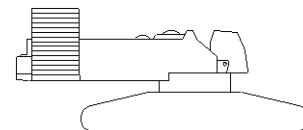
Liftcrane Boom Capacities

18000

Boom No. 55-79A with 30,5 m Mast No. 56
206 840 kg Crane Counterweight
105 230 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds

14 m/s with 36,6 m thru 91,4 m Boom
10 m/s with 97,5 m thru 103,6 m Boom
7 m/s with 109,7 m Boom



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 (*).

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom 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. Refer to boom rigging **No. A05379**, Wire Rope Specification chart **No. 8652-A or 8652-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, 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 be operated in winds stated in Maximum Operating Wind Speed table provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind will have a considerable effect on load with a large "sail area" and must be compensated for accordingly by reducing load ratings, reducing operating speeds, or by a combination of both. Wind speed to be measured at boom point elevation. **Operation is not permitted when wind is above conditions stated in Maximum Operating Wind Speed table.** Park crane (upper inline with crawlers) with load block on ground or secured and position boom at 70 degrees. Lower boom onto blocking at ground level and haul in boom hoist wire rope just wire enough to tension mast straps when wind is above 22 m/s. Lower mast to ground when wind is above 34 m/s.

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. 8653-A** for travel on grade.

MAX PERMISSIBLE SLEWING SPEED: Slew 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 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 11 811 mm crawlers, 1 524 mm treads, 9,1 m live mast, 30,5 m mast, 16 part boom hoist reeving, boom support straps, 206 840 kg crane counterweight and 105 230 kg carbody counterweight.

Maximum Boom Length Lifted Unassisted

Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
109,7 m	103,6 m
Load block, hook and weight ball on ground at start.	

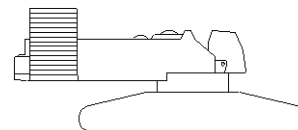
Upper Boom Point Deduct

Deduct 270 kg from capacities when upper boom point No. A08516 is attached.

Boom Catwalks Deduct

Deduct 400 kg from capacities when boom catwalks are attached.

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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.		

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36,6 m (120 Ft.) Boom			
7,9	82,2	39,5	452 100 *
8,0	82,1	39,5	452 100 *
9,0	80,5	39,3	444 100 *
10,0	78,9	39,1	404 500 *
12,0	75,7	38,5	336 800 *
14,0	72,4	37,9	283 500 *
16,0	69,0	37,1	244 000 *
18,0	65,5	36,2	213 700 *
20,0	62,0	35,1	189 600 *
22,0	58,3	33,8	169 800
24,0	54,4	32,3	151 600
26,0	50,3	30,7	135 300
28,0	46,0	28,7	121 800
30,0	41,2	26,5	110 400
32,0	35,9	23,7	100 700
34,0	29,8	20,4	92 200
36,0	21,9	15,8	84 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42,7 m (140 Ft.) Boom			
8,5	82,5	45,6	452 100 *
10,0	80,5	45,3	403 100 *
12,0	77,8	44,8	335 600 *
14,0	75,0	44,3	282 500 *
16,0	72,2	43,6	243 000 *
18,0	69,3	42,8	212 700 *
20,0	66,3	42,0	188 700 *
22,0	63,3	40,9	169 000
24,0	60,2	39,8	151 100
26,0	57,0	38,5	134 700
28,0	53,6	37,0	121 200
30,0	50,1	35,3	109 900
32,0	46,4	33,4	100 200
34,0	42,5	31,2	91 700
36,0	38,1	28,6	84 300
38,0	33,3	25,6	77 800
40,0	27,7	22,0	72 000
42,0	20,5	17,0	66 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48,8 m (160 Ft.) Boom			
9,1	82,7	51,7	426 000 *
10,0	81,7	51,5	402 700 *
12,0	79,3	51,1	334 000 *
14,0	76,9	50,6	281 000 *
16,0	74,5	50,0	241 600 *
18,0	72,0	49,4	211 300 *
20,0	69,5	48,6	187 300 *
22,0	66,9	47,7	167 700 *
24,0	64,3	46,8	150 000
26,0	61,6	45,7	133 700
28,0	58,9	44,4	120 200
30,0	56,0	43,1	108 800
32,0	53,1	41,6	99 100
34,0	50,0	39,9	90 700
36,0	46,8	38,0	83 300
38,0	43,3	35,9	76 800
40,0	39,7	33,5	71 000
42,0	35,7	30,7	65 800
44,0	31,2	27,5	61 100
46,0	26,0	23,5	56 800
48,0	19,4	18,3	52 900

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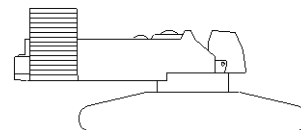
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7 m/s with 109,7 m Boom



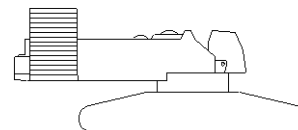
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54,9 m (180 Ft.) Boom			
9,8	82,9	57,7	372 200 *
10,0	82,6	57,7	372 200 *
12,0	80,5	57,3	327 100
14,0	78,4	56,9	275 400
16,0	76,2	56,4	237 000
18,0	74,1	55,8	207 300
20,0	71,9	55,1	183 600
22,0	69,6	54,4	164 200
24,0	67,4	53,5	148 200
26,0	65,0	52,6	133 500
28,0	62,7	51,5	120 000
30,0	60,3	50,4	108 600
32,0	57,8	49,1	98 900
34,0	55,3	47,7	90 400
36,0	52,6	46,2	83 100
38,0	49,9	44,5	76 500
40,0	47,0	42,6	70 800
42,0	44,0	40,5	65 600
44,0	40,8	38,2	60 900
46,0	37,4	35,6	56 700
48,0	33,7	32,7	52 800
50,0	29,5	29,2	49 200
52,0	24,7	25,0	46 000
54,0	18,6	19,5	42 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61,0 m (200 Ft.) Boom			
11,0	82,5	63,7	342 000 *
12,0	81,5	63,5	315 300
14,0	79,6	63,2	266 400
16,0	77,6	62,7	230 000
18,0	75,7	62,2	201 700
20,0	73,7	61,6	179 100
22,0	71,8	60,9	160 500
24,0	69,7	60,1	145 000
26,0	67,7	59,3	131 900
28,0	65,6	58,4	120 300
30,0	63,5	57,4	108 900
32,0	61,4	56,3	99 100
34,0	59,2	55,1	90 600
36,0	56,9	53,8	83 200
38,0	54,6	52,3	76 700
40,0	52,3	50,8	70 900
42,0	49,8	49,1	65 800
44,0	47,2	47,2	61 100
46,0	44,5	45,2	56 900
48,0	41,7	42,9	53 000
50,0	38,7	40,5	49 500
52,0	35,5	37,7	46 200
54,0	32,0	34,5	43 300
56,0	28,1	30,9	40 500
58,0	23,5	26,5	37 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67,1 m (220 Ft.) Boom			
11,6	82,6	69,8	309 800 *
12,0	82,3	69,7	301 500
14,0	80,5	69,4	257 100
16,0	78,8	68,9	222 600
18,0	77,0	68,5	195 600
20,0	75,3	67,9	173 900
22,0	73,5	67,3	156 100
24,0	71,7	66,7	141 100
26,0	69,9	65,9	128 400
28,0	68,0	65,1	117 400
30,0	66,1	64,2	107 900
32,0	64,2	63,2	98 500
34,0	62,3	62,2	90 000
36,0	60,3	61,0	82 600
38,0	58,3	59,7	76 100
40,0	56,2	58,4	70 300
42,0	54,1	56,9	65 100
44,0	52,0	55,4	60 500
46,0	49,7	53,7	56 300
48,0	47,4	51,8	52 400
50,0	45,0	49,8	48 900
52,0	42,4	47,6	45 700
54,0	39,8	45,2	42 700
56,0	36,9	42,6	39 900
58,0	33,9	39,6	37 400
60,0	30,6	36,3	34 900
62,0	26,9	32,5	32 700
64,0	22,6	27,9	30 600

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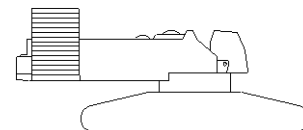
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73,2 m (240 Ft.) Boom			
12,2	82,8	75,8	286 800
14,0	81,3	75,6	248 600
16,0	79,7	75,2	216 000
18,0	78,1	74,7	190 200
20,0	76,5	74,3	169 400
22,0	74,9	73,7	152 200
24,0	73,3	73,1	137 700
26,0	71,6	72,4	125 400
28,0	69,9	71,7	114 800
30,0	68,2	70,9	105 600
32,0	66,5	70,0	97 400
34,0	64,8	69,0	90 000
36,0	63,0	68,0	82 500
38,0	61,2	66,9	75 900
40,0	59,4	65,7	70 100
42,0	57,6	64,4	64 900
44,0	55,7	63,0	60 300
46,0	53,7	61,6	56 000
48,0	51,7	60,0	52 200
50,0	49,7	58,3	48 700
52,0	47,5	56,4	45 500
54,0	45,3	54,5	42 500
56,0	43,0	52,3	39 700
58,0	40,6	50,0	37 200
60,0	38,1	47,4	34 800
62,0	35,4	44,6	32 600
64,0	32,5	41,5	30 500
66,0	29,4	38,0	28 600
68,0	25,8	34,0	26 700
70,0	21,8	29,2	25 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79,2 m (260 Ft.) Boom			
13,7	82,2	81,8	245 300
14,0	82,0	81,7	240 600
16,0	80,5	81,4	209 000
18,0	79,1	81,0	184 500
20,0	77,6	80,5	164 500
22,0	76,1	80,0	147 900
24,0	74,6	79,5	133 900
26,0	73,1	78,8	122 000
28,0	71,5	78,2	111 600
30,0	70,0	77,4	102 600
32,0	68,4	76,6	94 700
34,0	66,9	75,8	87 700
36,0	65,3	74,8	81 400
38,0	63,7	73,8	75 200
40,0	62,0	72,8	69 300
42,0	60,4	71,6	64 100
44,0	58,7	70,4	59 400
46,0	56,9	69,1	55 200
48,0	55,2	67,7	51 400
50,0	53,4	66,2	47 900
52,0	51,5	64,6	44 700
54,0	49,6	62,9	41 700
56,0	47,6	61,0	38 900
58,0	45,6	59,1	36 400
60,0	43,5	57,0	34 000
62,0	41,3	54,7	31 800
64,0	39,0	52,2	29 800
66,0	36,6	49,6	27 800
68,0	34,1	46,6	26 000
70,0	31,3	43,4	24 300
72,0	28,3	39,7	22 600
74,0	24,9	35,5	21 100
76,0	21,1	30,6	19 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
85,3 m (280 Ft.) Boom			
13,7	82,8	87,9	221 300 *
14,0	82,6	87,9	219 800
16,0	81,2	87,6	204 800
18,0	79,9	87,2	179 300
20,0	78,5	86,8	160 100
22,0	77,1	86,3	144 100
24,0	75,7	85,8	130 600
26,0	74,3	85,2	119 000
28,0	72,9	84,6	109 000
30,0	71,5	83,9	100 200
32,0	70,1	83,2	92 500
34,0	68,6	82,4	85 600
36,0	67,2	81,5	79 400
38,0	65,7	80,6	73 900
40,0	64,2	79,7	68 800
42,0	62,7	78,6	63 700
44,0	61,1	77,5	59 000
46,0	59,6	76,3	54 800
48,0	58,0	75,1	50 900
50,0	56,4	73,7	47 400
52,0	54,7	72,3	44 200
54,0	53,0	70,8	41 200
56,0	51,3	69,2	38 500
58,0	49,6	67,5	35 900
60,0	47,7	65,6	33 600
62,0	45,9	63,7	31 400
64,0	43,9	61,6	29 400
66,0	41,9	59,4	27 400
68,0	39,8	57,0	25 600
70,0	37,6	54,4	23 900
72,0	35,3	51,6	22 200
74,0	32,9	48,5	20 700
76,0	30,2	45,2	19 300
78,0	27,4	41,4	17 900
80,0	24,1	37,0	16 600
82,0	20,5	31,9	15 300

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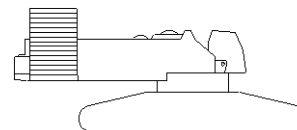
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91,4 m (300 Ft.) Boom			
15,2	82,3	93,9	195 200 *
16,0	81,8	93,8	191 200
18,0	80,5	93,4	174 700
20,0	79,3	93,0	155 400
22,0	78,0	92,6	139 900
24,0	76,7	92,1	126 800
26,0	75,4	91,6	115 600
28,0	74,1	91,0	105 800
30,0	72,8	90,4	97 300
32,0	71,5	89,7	89 700
34,0	70,1	88,9	83 000
36,0	68,8	88,2	77 000
38,0	67,4	87,3	71 600
40,0	66,0	86,4	66 700
42,0	64,6	85,5	62 200
44,0	63,2	84,4	58 000
46,0	61,8	83,4	53 900
48,0	60,4	82,2	50 000
50,0	58,9	81,0	46 500
52,0	57,4	79,7	43 300
54,0	55,9	78,4	40 300
56,0	54,4	76,9	37 600
58,0	52,8	75,4	35 000
60,0	51,2	73,8	32 600
62,0	49,5	72,1	30 400
64,0	47,8	70,2	28 400
66,0	46,1	68,3	26 500
68,0	44,3	66,3	24 700
70,0	42,4	64,1	22 900
72,0	40,5	61,7	21 300
74,0	38,5	59,2	19 800
76,0	36,4	56,5	18 400
78,0	34,2	53,6	17 000
80,0	31,8	50,4	15 700
82,0	29,3	46,9	14 500
84,0	26,5	43,0	13 300
86,0	23,4	38,5	12 200
88,0	19,9	33,2	11 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
97,5 m (320 Ft.) Boom			
15,2	82,8	100,0	180 300 *
16,0	82,3	99,9	177 400 *
18,0	81,1	99,6	167 300 *
20,0	79,9	99,2	151 200
22,0	78,7	98,8	136 200
24,0	77,5	98,4	123 500
26,0	76,3	97,9	112 600
28,0	75,1	97,3	103 200
30,0	73,9	96,8	94 800
32,0	72,7	96,1	87 500
34,0	71,4	95,4	80 900
36,0	70,2	94,7	75 000
38,0	68,9	93,9	69 700
40,0	67,6	93,1	64 900
42,0	66,3	92,2	60 500
44,0	65,0	91,3	56 500
46,0	63,7	90,3	52 800
48,0	62,4	89,2	49 300
50,0	61,1	88,1	45 900
52,0	59,7	86,9	42 700
54,0	58,3	85,7	39 700
56,0	56,9	84,4	37 000
58,0	55,5	83,0	34 400
60,0	54,0	81,5	32 100
62,0	52,5	80,0	29 900
64,0	51,0	78,4	27 800
66,0	49,5	76,7	25 900
68,0	47,9	74,8	24 100
70,0	46,3	72,9	22 400
72,0	44,6	70,9	20 800
74,0	42,9	68,7	19 300
76,0	41,1	66,5	17 800
78,0	39,2	64,0	16 500
80,0	37,3	61,4	15 200
82,0	35,3	58,6	14 000
84,0	33,1	55,5	12 800
86,0	30,9	52,2	11 700
88,0	28,4	48,6	10 600
90,0	25,8	44,5	9 600
92,0	22,8	39,9	8 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
103,6 m (340 Ft.) Boom			
16,8	82,4	106,0	142 200 *
18,0	81,7	105,8	141 500 *
20,0	80,5	105,4	139 900 *
22,0	79,4	105,1	132 000 *
24,0	78,3	104,6	120 000
26,0	77,2	104,2	109 300
28,0	76,0	103,7	100 100
30,0	74,9	103,1	92 000
32,0	73,7	102,5	84 700
34,0	72,6	101,9	78 300
36,0	71,4	101,2	72 600
38,0	70,2	100,5	67 400
40,0	69,0	99,7	62 600
42,0	67,8	98,9	58 300
44,0	66,6	98,0	54 400
46,0	65,4	97,1	50 800
48,0	64,2	96,1	47 400
50,0	62,9	95,1	44 300
52,0	61,7	94,0	41 500
54,0	60,4	92,8	38 700
56,0	59,1	91,6	35 900
58,0	57,8	90,4	33 400
60,0	56,5	89,0	31 100
62,0	55,1	87,6	28 900
64,0	53,7	86,2	26 800
66,0	52,3	84,6	24 900
68,0	50,9	83,0	23 100
70,0	49,5	81,3	21 400
72,0	48,0	79,4	19 800
74,0	46,4	77,6	18 200
76,0	44,9	75,5	16 800
78,0	43,3	73,4	15 500
80,0	41,6	71,2	14 200
82,0	39,9	68,8	13 000
84,0	38,1	66,2	11 800
86,0	36,2	63,5	10 700
88,0	34,3	60,6	9 600
90,0	32,2	57,4	8 600
92,0	30,0	54,0	7 600

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 30,5 m Mast No. 56
206 840 kg Crane Counterweight
105 230 kg Carbody Counterweight
360 Degree Rating
Maximum Operating Wind Speeds
14 m/s with 36,6 m thru 91,4 m Boom
10 m/s with 97,5 m thru 103,6 m Boom
7 m/s with 109,7 m Boom


Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
109,7 m (360 Ft.) Boom			
16,8	82,8	112,1	135 400 *
18,0	82,1	111,9	135 300 *
20,0	81,1	111,6	133 700 *
22,0	80,0	111,3	125 000 *
24,0	78,9	110,9	114 700 *
26,0	77,9	110,4	106 000
28,0	76,8	110,0	97 300
30,0	75,7	109,4	89 300
32,0	74,6	108,9	82 300
34,0	73,6	108,3	76 000
36,0	72,5	107,6	70 300
38,0	71,4	107,0	65 200
40,0	70,2	106,2	60 600
42,0	69,1	105,5	56 400
44,0	68,0	104,6	52 500
46,0	66,9	103,8	49 000
48,0	65,7	102,9	45 600
50,0	64,6	101,9	42 600
52,0	63,4	100,9	39 800
54,0	62,2	99,8	37 200
56,0	61,0	98,7	34 700
58,0	59,8	97,6	32 400
60,0	58,6	96,3	30 200
62,0	57,3	95,0	27 900
64,0	56,1	93,7	25 900
66,0	54,8	92,3	24 000
68,0	53,5	90,8	22 200
70,0	52,2	89,2	20 500
72,0	50,8	87,6	18 900
74,0	49,4	85,9	17 400
76,0	48,0	84,1	16 000
78,0	46,6	82,2	14 600
80,0	45,1	80,2	13 300
82,0	43,6	78,1	12 100
84,0	42,0	75,8	10 900
86,0	40,4	73,5	9 800
88,0	38,8	71,0	8 800
90,0	37,0	68,4	7 800