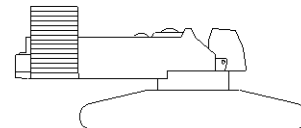


Liftcrane Boom Capacities

Boom No. 55 or No. 55A with 30.5m Mast No. 56
239 500 kg Crane Counterweight
145 150 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements
Similar to
AS1418.1 and
AS1418.5

18000



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and may be based on percent of tipping, strength of structural components, some operating speeds and other factors. 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 with recommended out of levelness of 0.75 percent or less and in no case shall exceed 1 percent on a firm uniformly supporting surface with mast up. Refer to boom rigging **No. A04341**, Wire Rope Specification chart **No. 8514-C or 8514-D** 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 operators 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. 8551-B**. Maximum available travel speed is 0.7 MPH (0.3 m/s). Travel with load (pick and carry) is not restricted with available travel speed.

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, 9.1m live mast, 30.5m mast, 16 part boom hoist reeving, boom support straps, 239 500 kg crane counterweight and 145 150 kg carbody counterweight.

Maximum Boom Length Lifted/Lowered Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
97.5m	91.4m
Load block, hook and weight ball on ground at start.	

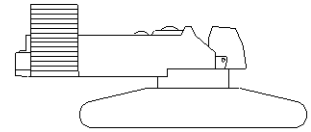
Upper Boom Point Capacity For Liftcrane Service - Whip Line		
28 mm		32 mm
Drum 2	Drum 3	Drum 2
Single Part Line		
16 240 kg	13 610 kg	22 140 kg
Two Part Line		
Upper Boom Point No. 170419		
27 220 kg	27 220 kg	27 220 kg
Upper Boom Point No. A08516		
32 480 kg	27 220 kg	44 270 kg
In all cases, upper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

Liftcrane Boom Capacities

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) Boom			
7.3	83.2	39.6	600 000 *
8.0	82.1	39.5	512 800 *
9.0	80.6	39.3	458 800 *
10.0	78.9	39.1	413 200 *
11.0	77.3	38.8	375 500 *
12.0	75.7	38.5	343 800 *
14.0	72.4	37.9	291 500 *
16.0	69.0	37.1	250 000 *
18.0	65.6	36.2	218 300 *
20.0	62.0	35.1	193 000 *
22.0	58.3	33.8	172 400 *
24.0	54.5	32.3	155 400 *
26.0	50.4	30.7	140 200
28.0	46.0	28.7	126 000
30.0	41.3	26.5	114 000
32.0	36.0	23.7	103 700
34.0	29.8	20.4	94 800
36.0	22.0	15.8	86 900
42.7m (140 Ft.) Boom			
8.5	82.6	45.6	481 700 *
9.0	81.9	45.5	457 500 *
10.0	80.6	45.3	411 600 *
11.0	79.2	45.1	373 900 *
12.0	77.8	44.8	342 300 *
14.0	75.0	44.3	290 300 *
16.0	72.2	43.6	248 800 *
18.0	69.3	42.8	217 000 *
20.0	66.4	42.0	191 800 *
22.0	63.3	40.9	171 300 *
24.0	60.2	39.8	154 300 *
26.0	57.0	38.5	139 500
28.0	53.7	37.0	125 300
30.0	50.2	35.3	113 300
32.0	46.5	33.4	103 000
34.0	42.5	31.2	94 100
36.0	38.2	28.6	86 300
38.0	33.3	25.6	79 500
40.0	27.7	22.0	73 300
42.0	20.6	17.0	67 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) Boom			
9.1	82.8	51.7	448 100 *
10.0	81.7	51.5	409 700 *
11.0	80.6	51.3	372 100 *
12.0	79.4	51.1	340 400 *
14.0	76.9	50.6	288 700 *
16.0	74.5	50.0	247 200 *
18.0	72.0	49.4	215 500 *
20.0	69.5	48.6	190 300 *
22.0	66.9	47.7	169 800 *
24.0	64.3	46.8	152 800 *
26.0	61.6	45.7	138 400
28.0	58.9	44.4	124 200
30.0	56.0	43.1	112 200
32.0	53.1	41.6	102 000
34.0	50.0	39.9	93 100
36.0	46.8	38.0	85 300
38.0	43.4	35.9	78 400
40.0	39.7	33.5	72 300
42.0	35.7	30.7	66 800
44.0	31.2	27.5	61 900
46.0	26.0	23.5	57 400
48.0	19.5	18.3	53 300
54.9m (180 Ft.) Boom			
9.8	82.9	57.7	418 500 *
10.0	82.7	57.7	408 400 *
11.0	81.6	57.5	370 500 *
12.0	80.6	57.3	338 800 *
14.0	78.4	56.9	287 300 *
16.0	76.3	56.4	245 800 *
18.0	74.1	55.8	214 000 *
20.0	71.9	55.1	188 800 *
22.0	69.7	54.4	168 300 *
24.0	67.4	53.5	151 300 *
26.0	65.1	52.6	136 900
28.0	62.7	51.5	123 200
30.0	60.3	50.4	111 100
32.0	57.8	49.1	100 800
34.0	55.3	47.7	91 800
36.0	52.6	46.2	84 100
38.0	49.9	44.5	77 200
40.0	47.0	42.6	71 100
42.0	44.0	40.5	65 600
44.0	40.9	38.2	60 600
46.0	37.4	35.6	56 200
48.0	33.7	32.7	52 100
50.0	29.5	29.2	48 300
52.0	24.7	25.0	44 900
54.0	18.6	19.5	41 700

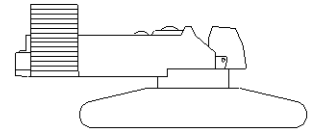
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) Boom			
11.0	82.5	63.7	370 400 *
12.0	81.5	63.5	337 700 *
14.0	79.6	63.2	286 500 *
16.0	77.7	62.7	244 900 *
18.0	75.7	62.2	213 200 *
20.0	73.8	61.6	188 000 *
22.0	71.8	60.9	167 500 *
24.0	69.8	60.1	150 400 *
26.0	67.7	59.3	136 100
28.0	65.7	58.4	122 700
30.0	63.6	57.4	110 600
32.0	61.4	56.3	100 300
34.0	59.2	55.1	91 300
36.0	57.0	53.8	83 500
38.0	54.7	52.3	76 600
40.0	52.3	50.8	70 500
42.0	49.8	49.1	65 000
44.0	47.2	47.2	60 100
46.0	44.6	45.2	55 600
48.0	41.7	42.9	51 500
50.0	38.7	40.5	47 800
52.0	35.5	37.7	44 400
54.0	32.0	34.5	41 200
56.0	28.1	30.9	38 300
58.0	23.6	26.5	35 500

Liftcrane Boom Capacities

Boom No. 55 or No. 55A with 30.5m Mast No. 56
239 500 kg Crane Counterweight
145 150 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements
Similar to
AS1418.1 and
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67.1m (220 Ft.) Boom			
11.6	82.6	69.8	348 500 *
12.0	82.3	69.7	336 100 *
14.0	80.6	69.4	285 000 *
16.0	78.8	68.9	243 300 *
18.0	77.1	68.5	211 600 *
20.0	75.3	67.9	186 300 *
22.0	73.5	67.3	165 800 *
24.0	71.7	66.7	148 800 *
26.0	69.9	65.9	134 400
28.0	68.0	65.1	121 500
30.0	66.2	64.2	109 300
32.0	64.2	63.2	98 900
34.0	62.3	62.2	89 900
36.0	60.3	61.0	82 100
38.0	58.3	59.7	75 200
40.0	56.3	58.4	69 100
42.0	54.2	56.9	63 500
44.0	52.0	55.4	58 600
46.0	49.7	53.7	54 100
48.0	47.4	51.8	50 100
50.0	45.0	49.8	46 300
52.0	42.5	47.6	42 900
54.0	39.8	45.2	39 800
56.0	37.0	42.6	36 900
58.0	33.9	39.6	34 100
60.0	30.6	36.3	31 600
62.0	26.9	32.5	29 300
64.0	22.6	27.9	27 000
73.2m (240 Ft.) Boom			
12.2	82.8	75.8	329 200 *
14.0	81.4	75.6	283 900 *
16.0	79.8	75.2	242 300 *
18.0	78.2	74.7	210 500 *
20.0	76.5	74.3	185 300 *
22.0	74.9	73.7	164 700 *
24.0	73.3	73.1	147 700 *
26.0	71.6	72.4	133 300 *
28.0	70.0	71.7	120 700
30.0	68.3	70.9	108 400
32.0	66.6	70.0	98 100
34.0	64.8	69.0	89 100
36.0	63.1	68.0	81 200
38.0	61.3	66.9	74 300
40.0	59.4	65.7	68 200
42.0	57.6	64.4	62 700
44.0	55.7	63.0	57 700
46.0	53.7	61.6	53 200
48.0	51.7	60.0	49 200
50.0	49.7	58.3	45 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73.2m (240 Ft.) Boom			
52.0	47.5	56.4	42 000
54.0	45.3	54.5	38 900
56.0	43.0	52.3	36 000
58.0	40.6	50.0	33 300
60.0	38.1	47.4	30 700
62.0	35.4	44.6	28 400
64.0	32.5	41.5	26 200
66.0	29.4	38.0	24 100
68.0	25.9	34.0	21 700 *
70.0	21.8	29.2	19 400 *
79.2m (260 Ft.) Boom			
13.7	82.2	81.8	288 800 *
14.0	82.0	81.7	282 500 *
16.0	80.6	81.4	240 600 *
18.0	79.1	81.0	208 800 *
20.0	77.6	80.5	183 500 *
22.0	76.1	80.0	163 000 *
24.0	74.6	79.5	145 900 *
26.0	73.1	78.8	131 600 *
28.0	71.6	78.2	119 100
30.0	70.0	77.4	107 100
32.0	68.5	76.6	96 600
34.0	66.9	75.8	87 600
36.0	65.3	74.8	79 700
38.0	63.7	73.8	72 800
40.0	62.0	72.8	66 700
42.0	60.4	71.6	61 100
44.0	58.7	70.4	56 200
46.0	56.9	69.1	51 700
48.0	55.2	67.7	47 600
50.0	53.4	66.2	43 900
52.0	51.5	64.6	40 500
54.0	49.6	62.9	37 300
56.0	47.7	61.0	34 400
58.0	45.6	59.1	31 700
60.0	43.5	57.0	29 200
62.0	41.4	54.7	26 800
64.0	39.1	52.2	24 600
66.0	36.6	49.6	22 300 *
68.0	34.1	46.6	19 900 *
70.0	31.3	43.4	17 700 *
72.0	28.3	39.7	15 600 *
74.0	25.0	35.5	13 500 *
76.0	21.1	30.6	11 600 *

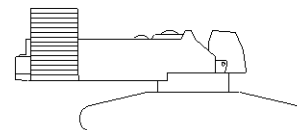
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
85.3m (280 Ft.) Boom			
13.7	82.8	87.9	287 400 *
14.0	82.6	87.9	281 100 *
16.0	81.2	87.6	239 400 *
18.0	79.9	87.2	207 600 *
20.0	78.5	86.8	182 300 *
22.0	77.1	86.3	161 700 *
24.0	75.7	85.8	144 700 *
26.0	74.3	85.2	130 300 *
28.0	72.9	84.6	117 900
30.0	71.5	83.9	106 100
32.0	70.1	83.2	95 600
34.0	68.6	82.4	86 600
36.0	67.2	81.5	78 700
38.0	65.7	80.6	71 800
40.0	64.2	79.7	65 600
42.0	62.7	78.6	60 100
44.0	61.2	77.5	55 100
46.0	59.6	76.3	50 600
48.0	58.0	75.1	46 500
50.0	56.4	73.7	42 800
52.0	54.7	72.3	39 300
54.0	53.1	70.8	36 200
56.0	51.3	69.2	33 300
58.0	49.6	67.5	30 600
60.0	47.8	65.6	28 100
62.0	45.9	63.7	25 800
64.0	44.0	61.6	23 500
66.0	41.9	59.4	21 100 *
68.0	39.9	57.0	18 700 *
70.0	37.7	54.4	16 500 *
72.0	35.3	51.6	14 400 *
74.0	32.9	48.5	12 400 *
76.0	30.2	45.2	10 600 *
78.0	27.4	41.4	8 700 *

Liftcrane Boom Capacities

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239 500 kg Crane Counterweight
145 150 kg Carbody Counterweight
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
91.4m (300 Ft.) Boom			
15.2	82.3	93.9	252 100 *
16.0	81.8	93.8	238 400 *
18.0	80.6	93.4	205 800 *
20.0	79.3	93.0	180 500 *
22.0	78.0	92.6	159 900 *
24.0	76.7	92.1	142 900 *
26.0	75.4	91.6	128 500 *
28.0	74.1	91.0	116 200
30.0	72.8	90.4	104 700
32.0	71.5	89.7	94 100
34.0	70.1	88.9	85 100
36.0	68.8	88.2	77 200
38.0	67.4	87.3	70 200
40.0	66.1	86.4	64 000
42.0	64.7	85.5	58 500
44.0	63.3	84.4	53 500
46.0	61.8	83.4	49 000
48.0	60.4	82.2	44 900
50.0	58.9	81.0	41 100
52.0	57.4	79.7	37 700
54.0	55.9	78.4	34 600
56.0	54.4	76.9	31 700
58.0	52.8	75.4	29 000
60.0	51.2	73.8	26 400
62.0	49.5	72.1	24 000
64.0	47.8	70.2	21 500 *
66.0	46.1	68.3	19 000 *
68.0	44.3	66.3	16 700 *
70.0	42.5	64.1	14 500 *
72.0	40.5	61.7	12 400 *
74.0	38.5	59.2	10 400 *
76.0	36.4	56.5	8 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
97.5m (320 Ft.) Boom			
15.2	82.8	100.0	247 900 *
16.0	82.3	99.9	236 300 *
18.0	81.2	99.6	206 100 *
20.0	80.0	99.2	180 500 *
22.0	78.8	98.8	160 000 *
24.0	77.6	98.4	142 900 *
26.0	76.3	97.9	128 500 *
28.0	75.1	97.3	116 200
30.0	73.9	96.8	104 900
32.0	72.7	96.1	94 400
34.0	71.4	95.4	85 300
36.0	70.2	94.7	77 400
38.0	68.9	93.9	70 400
40.0	67.6	93.1	64 200
42.0	66.4	92.2	58 700
44.0	65.1	91.3	53 700
46.0	63.8	90.3	49 200
48.0	62.4	89.2	45 100
50.0	61.1	88.1	41 300
52.0	59.7	86.9	37 900
54.0	58.3	85.7	34 700
56.0	56.9	84.4	31 800
58.0	55.5	83.0	29 100
60.0	54.0	81.5	26 600
62.0	52.6	80.0	24 100
64.0	51.0	78.4	21 600 *
66.0	49.5	76.7	19 300 *
68.0	47.9	74.8	17 100 *
70.0	46.3	72.9	14 900 *
72.0	44.6	70.9	12 800 *
74.0	42.9	68.7	10 800 *
76.0	41.1	66.5	9 000 *