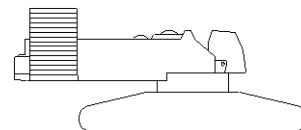


Liftcrane Boom Capacities

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

Maximum Operating Wind Speeds

14 m/s thru 91.4 m Boom
10 m/s with 97.5 m Boom



18000

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. 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 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. 8644-A**.

MAX PERMISSIBLE SLEWING SPEED: Slewing 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, 239 500 kg crane counterweight and 145 150 kg carbody counterweight.

Boom Catwalks Deduct

Deduct 300 kg from capacities when boom catwalks are attached.

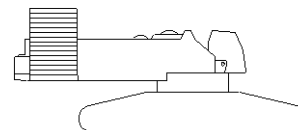
Liftcrane Boom Capacities

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239 500 kg Crane Counterweight
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Maximum Operating
Wind Speeds

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10 m/s with 97.5 m Boom



Maximum Boom and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib Length	Boom Length	Jib Length
97.5 m	—	85.3 m	—
91.4 m	—	79.2 m	—
85.3 m	—	73.2 m	—
79.2 m	—	67.1 m	—
73.2 m	—	61.0 m	15.2 m
67.1 m	15.2 m	54.9 m	21.3 m
61.0 m	21.3 m	48.8 m	33.5 m
54.9 m	33.5 m		

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.

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 chart No. 8559-A for jib capacities.

Upper boom point cannot be used when jib is attached.

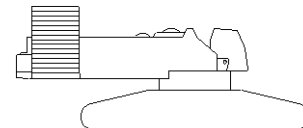
Liftcrane Boom Capacities

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**Maximum Operating
Wind Speeds**

14 m/s thru 91.4 m Boom
10 m/s with 97.5 m Boom



Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6 m (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	141 000 *
28.0	46.0	28.7	128 700 *
30.0	41.3	26.5	118 100 *
32.0	36.0	23.7	108 800 *
34.0	29.8	20.4	99 900
36.0	22.0	15.8	91 400
42.7 m (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	139 900 *
28.0	53.7	37.0	127 600 *
30.0	50.2	35.3	117 000 *
32.0	46.5	33.4	107 700 *
34.0	42.5	31.2	99 200
36.0	38.2	28.6	90 800
38.0	33.3	25.6	83 400
40.0	27.7	22.0	76 800
42.0	20.6	17.0	70 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8 m (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	138 500 *
28.0	58.9	44.4	126 200 *
30.0	56.0	43.1	115 600 *
32.0	53.1	41.6	106 300 *
34.0	50.0	39.9	98 000
36.0	46.8	38.0	89 600
38.0	43.4	35.9	82 200
40.0	39.7	33.5	75 700
42.0	35.7	30.7	69 800
44.0	31.2	27.5	64 600
46.0	26.0	23.5	59 800
48.0	19.5	18.3	55 300
54.9 m (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	137 000 *
28.0	62.7	51.5	124 700 *
30.0	60.3	50.4	114 100 *
32.0	57.8	49.1	104 800 *
34.0	55.3	47.7	96 500
36.0	52.6	46.2	88 200
38.0	49.9	44.5	80 900
40.0	47.0	42.6	74 300
42.0	44.0	40.5	68 400
44.0	40.9	38.2	63 200
46.0	37.4	35.6	58 400
48.0	33.7	32.7	54 000
50.0	29.5	29.2	50 000
52.0	24.7	25.0	46 300
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	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	123 800 *
30.0	63.6	57.4	113 200 *
32.0	61.4	56.3	104 000 *
34.0	59.2	55.1	95 700
36.0	57.0	53.8	87 600
38.0	54.7	52.3	80 200
40.0	52.3	50.8	73 700
42.0	49.8	49.1	67 800
44.0	47.2	47.2	62 500
46.0	44.6	45.2	57 700
48.0	41.7	42.9	53 400
50.0	38.7	40.5	49 400
52.0	35.5	37.7	45 800
54.0	32.0	34.5	42 400
56.0	28.1	30.9	39 200
58.0	23.6	26.5	36 300

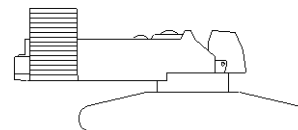
Liftcrane Boom Capacities

18000

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239 500 kg Crane Counterweight
145 150 kg Carbody Counterweight
360 Degree Rating

Maximum Operating
Wind Speeds

14 m/s thru 91.4 m Boom
10 m/s with 97.5 m Boom



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	346 900
12.0	82.3	69.7	334 100
14.0	80.6	69.4	282 500
16.0	78.8	68.9	243 200
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	122 200 *
30.0	66.2	64.2	111 600 *
32.0	64.2	63.2	102 300 *
34.0	62.3	62.2	94 100
36.0	60.3	61.0	86 000
38.0	58.3	59.7	78 600
40.0	56.3	58.4	72 000
42.0	54.2	56.9	66 200
44.0	52.0	55.4	60 900
46.0	49.7	53.7	56 100
48.0	47.4	51.8	51 800
50.0	45.0	49.8	47 800
52.0	42.5	47.6	44 100
54.0	39.8	45.2	40 700
56.0	37.0	42.6	37 600
58.0	33.9	39.6	34 800
60.0	30.6	36.3	32 000
62.0	26.9	32.5	29 500
64.0	22.6	27.9	27 100

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	315 400
14.0	81.4	75.6	272 200
16.0	79.8	75.2	235 200
18.0	78.2	74.7	206 100
20.0	76.5	74.3	182 500
22.0	74.9	73.7	163 000
24.0	73.3	73.1	146 600
26.0	71.6	72.4	132 700
28.0	70.0	71.7	120 600
30.0	68.3	70.9	110 100
32.0	66.6	70.0	100 900
34.0	64.8	69.0	92 800
36.0	63.1	68.0	85 100
38.0	61.3	66.9	77 600
40.0	59.4	65.7	71 100
42.0	57.6	64.4	65 200
44.0	55.7	63.0	59 900
46.0	53.7	61.6	55 100
48.0	51.7	60.0	50 700
50.0	49.7	58.3	46 800
52.0	47.5	56.4	43 100
54.0	45.3	54.5	39 700
56.0	43.0	52.3	36 600
58.0	40.6	50.0	33 800
60.0	38.1	47.4	31 100
62.0	35.4	44.6	28 600
64.0	32.5	41.5	26 200
66.0	29.4	38.0	24 000
68.0	25.9	34.0	21 700 *
70.0	21.8	29.2	19 400 *

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	267 700
14.0	82.0	81.7	262 300
16.0	80.6	81.4	226 600
18.0	79.1	81.0	198 800
20.0	77.6	80.5	176 100
22.0	76.1	80.0	157 200
24.0	74.6	79.5	141 400
26.0	73.1	78.8	127 900
28.0	71.6	78.2	116 200
30.0	70.0	77.4	105 900
32.0	68.5	76.6	96 900
34.0	66.9	75.8	88 900
36.0	65.3	74.8	81 800
38.0	63.7	73.8	75 400
40.0	62.0	72.8	69 400
42.0	60.4	71.6	63 500
44.0	58.7	70.4	58 200
46.0	56.9	69.1	53 400
48.0	55.2	67.7	49 000
50.0	53.4	66.2	45 000
52.0	51.5	64.6	41 400
54.0	49.6	62.9	38 000
56.0	47.7	61.0	34 900
58.0	45.6	59.1	32 000
60.0	43.5	57.0	29 300
62.0	41.4	54.7	26 800
64.0	39.1	52.2	24 500
66.0	36.6	49.6	22 200
68.0	34.1	46.6	20 000 *
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 *

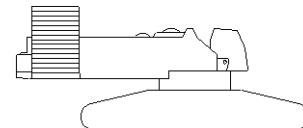
Liftcrane Boom Capacities

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360 Degree Rating

**Maximum Operating
Wind Speeds**

14 m/s thru 91.4 m Boom
10 m/s with 97.5 m Boom



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	257 900
14.0	82.6	87.9	252 800
16.0	81.2	87.6	218 900
18.0	79.9	87.2	192 200
20.0	78.5	86.8	170 400
22.0	77.1	86.3	152 200
24.0	75.7	85.8	136 900
26.0	74.3	85.2	123 800
28.0	72.9	84.6	112 400
30.0	71.5	83.9	102 400
32.0	70.1	83.2	93 600
34.0	68.6	82.4	85 800
36.0	67.2	81.5	78 800
38.0	65.7	80.6	72 600
40.0	64.2	79.7	66 900
42.0	62.7	78.6	61 700
44.0	61.2	77.5	56 900
46.0	59.6	76.3	52 100
48.0	58.0	75.1	47 800
50.0	56.4	73.7	43 800
52.0	54.7	72.3	40 100
54.0	53.1	70.8	36 800
56.0	51.3	69.2	33 600
58.0	49.6	67.5	30 800
60.0	47.8	65.6	28 100
62.0	45.9	63.7	25 600
64.0	44.0	61.6	23 200
66.0	41.9	59.4	21 000
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 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
91.4 m (300 Ft.) Boom			
15.2	82.3	93.9	222 200
16.0	81.8	93.8	211 400
18.0	80.6	93.4	185 300
20.0	79.3	93.0	164 300
22.0	78.0	92.6	146 700
24.0	76.7	92.1	131 800
26.0	75.4	91.6	119 100
28.0	74.1	91.0	108 000
30.0	72.8	90.4	98 300
32.0	71.5	89.7	89 700
34.0	70.1	88.9	82 000
36.0	68.8	88.2	75 200
38.0	67.4	87.3	69 100
40.0	66.1	86.4	63 500
42.0	64.7	85.5	58 400
44.0	63.3	84.4	53 700
46.0	61.8	83.4	49 500
48.0	60.4	82.2	45 500
50.0	58.9	81.0	41 900
52.0	57.4	79.7	38 300
54.0	55.9	78.4	34 900
56.0	54.4	76.9	31 800
58.0	52.8	75.4	28 900
60.0	51.2	73.8	26 300
62.0	49.5	72.1	23 800
64.0	47.8	70.2	21 400
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
97.5 m (320 Ft.) Boom			
15.2	82.8	100.0	216 000
16.0	82.3	99.9	205 600
18.0	81.2	99.6	180 600
20.0	80.0	99.2	160 400
22.0	78.8	98.8	143 500
24.0	77.6	98.4	129 100
26.0	76.3	97.9	116 700
28.0	75.1	97.3	105 900
30.0	73.9	96.8	96 400
32.0	72.7	96.1	88 100
34.0	71.4	95.4	80 600
36.0	70.2	94.7	73 900
38.0	68.9	93.9	67 900
40.0	67.6	93.1	62 400
42.0	66.4	92.2	57 400
44.0	65.1	91.3	52 900
46.0	63.8	90.3	48 600
48.0	62.4	89.2	44 800
50.0	61.1	88.1	41 200
52.0	59.7	86.9	37 900
54.0	58.3	85.7	34 800
56.0	56.9	84.4	32 000
58.0	55.5	83.0	29 100
60.0	54.0	81.5	26 400
62.0	52.6	80.0	23 900
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 *