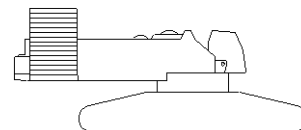


Liftcrane Boom Capacities

Boom No. 55 or No. 55A with 100 Ft. Mast No. 56
528,000 Lb. Crane Counterweight
320,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
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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. Capacities based on structural competence are denoted by an asterisk (*).

Weight of jib, all 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. 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. 8517-B**.

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 38 Ft. 9 in. crawlers, 60 in. treads, 30 Ft. live mast, 100 Ft. mast, 16 part boom hoist reeving, boom support straps, 528,000 Lb. crane counterweight and 320,000 Lb. carbody counterweight.

Maximum Boom and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib Length	Boom Length	Jib Length
320 Ft.	—	300 Ft.	—
300 Ft.	—	280 Ft.	—
280 Ft.	—	260 Ft.	—
260 Ft.	—	240 Ft.	—
240 Ft.	—	220 Ft.	—
220 Ft.	50 Ft.	200 Ft.	50 Ft.
200 Ft.	90 Ft.	180 Ft.	90 Ft.
180 Ft.	110 Ft.	160 Ft.	110 Ft.
Load block, hook and weight ball on ground at start.			

Deduct From Capacities When Jib is Attached	
Jib Length	Jib No. 79A
50 Ft.	106,100 Lb.
70 Ft.	123,600 Lb.
90 Ft.	143,800 Lb.
110 Ft.	159,400 Lb.
Weight of jib and 27,000 Lb. suspended beneath jib point sheaves have been included in deduct.	

Consult chart No. 8558-A for jib capacities.
Upper boom point cannot be used when jib is attached.

Boom Catwalks Deduct
Deduct 600 Lb. from capacities when boom catwalks are attached.

Upper Boom Point Capacity For Liftcrane Service - Whip Line		
28 mm	32 mm	
Drum 2	Drum 3	Drum 2
Single Part Line		
35,800 Lb.	30,000 Lb.	48,800 Lb.
Two Part Line		
Upper Boom Point No. 170419		
60,000 Lb.	60,000 Lb.	60,000 Lb.
Upper Boom Point No. A08516		
71,600 Lb.	60,000 Lb.	97,600 Lb.
In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.		

Liftcrane Boom Capacities

Meets
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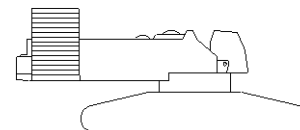
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Boom No. 55 or No. 55A with 100 Ft. Mast No. 56

528,000 Lb. Crane Counterweight

320,000 Lb. Carbody Counterweight

360 Degree Rating



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. Boom			
24	83.2	129.9	1,322,800 *
26	82.3	129.6	1,145,700 *
28	81.3	129.2	1,065,800 *
30	80.3	128.8	995,900 *
32	79.3	128.4	934,100 *
34	78.4	127.9	879,200 *
36	77.4	127.4	830,100 *
38	76.4	126.8	785,900 *
40	75.4	126.2	745,800 *
45	72.9	124.6	657,700 *
50	70.3	122.7	583,200 *
55	67.7	120.6	522,700 *
60	65.1	118.1	472,600 *
65	62.4	115.4	430,400 *
70	59.6	112.3	394,400 *
75	56.7	108.9	363,400 *
80	53.7	105.2	336,300 *
85	50.6	100.9	310,800
90	47.3	96.2	286,300
95	43.8	90.9	264,800
100	40.1	84.8	245,700
105	36.0	77.9	228,700
110	31.4	69.7	213,500
115	26.0	59.6	199,700
120	19.1	46.0	187,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. Boom			
28	82.6	149.6	1,062,000 *
30	81.7	149.2	992,200 *
32	80.9	148.8	930,500 *
34	80.1	148.4	875,700 *
36	79.2	148.0	826,600 *
38	78.4	147.5	782,500 *
40	77.5	147.0	742,500 *
45	75.4	145.6	654,900 *
50	73.3	144.0	580,400 *
55	71.1	142.2	520,000 *
60	68.9	140.2	469,900 *
65	66.6	137.9	427,800 *
70	64.4	135.4	391,900 *
75	62.0	132.7	360,800 *
80	59.6	129.7	333,800 *
85	57.2	126.4	309,200
90	54.6	122.7	284,700
95	52.0	118.7	263,200
100	49.3	114.3	244,200
105	46.5	109.5	227,200
110	43.5	104.1	212,000
115	40.3	98.1	198,300
120	36.8	91.4	185,900
125	33.1	83.6	174,600
130	28.8	74.6	164,200
135	23.9	63.5	154,600
140	17.5	48.8	145,700

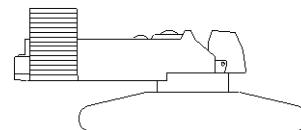
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. Boom			
30	82.8	169.5	987,900 *
32	82.0	169.1	926,300 *
34	81.3	168.8	871,500 *
36	80.6	168.4	822,500 *
38	79.9	168.0	778,400 *
40	79.1	167.6	738,400 *
45	77.3	166.4	651,500 *
50	75.4	165.0	577,000 *
55	73.6	163.4	516,600 *
60	71.7	161.7	466,500 *
65	69.7	159.8	424,400 *
70	67.8	157.6	388,500 *
75	65.8	155.3	357,500 *
80	63.8	152.8	330,500 *
85	61.8	150.0	306,700 *
90	59.7	147.0	282,400
95	57.5	143.7	260,800
100	55.3	140.2	241,800
105	53.1	136.4	224,900
110	50.8	132.2	209,700
115	48.3	127.7	196,000
120	45.8	122.7	183,600
125	43.2	117.3	172,300
130	40.4	111.4	161,900
135	37.4	104.8	152,400
140	34.3	97.4	143,600
145	30.8	89.0	135,500
150	26.8	79.2	127,900
155	22.2	67.2	120,900
160	16.2	51.3	114,200

Liftcrane Boom Capacities

Boom No. 55 or No. 55A with 100 Ft. Mast No. 56
528,000 Lb. Crane Counterweight
320,000 Lb. Carbody Counterweight
360 Degree Rating

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. Boom			
32	82.9	189.4	922,700 *
34	82.3	189.1	867,900 *
36	81.6	188.7	818,900 *
38	81.0	188.4	774,800 *
40	80.3	188.0	734,800 *
45	78.7	186.9	648,400 *
50	77.1	185.7	573,800 *
55	75.4	184.4	513,400 *
60	73.8	182.8	463,300 *
65	72.1	181.1	421,200 *
70	70.4	179.3	385,300 *
75	68.7	177.3	354,200 *
80	66.9	175.1	327,200 *
85	65.2	172.7	303,400 *
90	63.4	170.1	279,900 *
95	61.6	167.3	258,300 *
100	59.7	164.3	239,200 *
105	57.8	161.1	222,300 *
110	55.9	157.6	207,000 *
115	53.9	153.9	193,300 *
120	51.9	149.9	180,900 *
125	49.8	145.6	169,500 *
130	47.6	141.0	159,200 *
135	45.3	136.0	149,700 *
140	43.0	130.5	140,900 *
145	40.5	124.6	132,800 *
150	37.9	118.1	125,300 *
155	35.1	111.0	118,200 *
160	32.2	103.0	111,700 *
165	28.9	94.0	105,500 *
170	25.2	83.5	99,800 *
175	20.8	70.7	94,300 *
180	15.2	53.8	89,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. Boom			
36	82.5	209.0	816,700 *
38	81.9	208.7	772,500 *
40	81.3	208.3	732,600 *
45	79.9	207.4	646,600 *
50	78.4	206.3	572,000 *
55	76.9	205.1	511,600 *
60	75.4	203.7	461,500 *
65	73.9	202.2	419,400 *
70	72.4	200.6	383,400 *
75	70.9	198.8	352,400 *
80	69.4	196.8	325,300 *
85	67.8	194.7	301,500 *
90	66.3	192.5	278,900 *
95	64.7	190.0	257,200 *
100	63.1	187.4	238,100 *
105	61.4	184.6	221,100 *
110	59.7	181.6	205,800 *
115	58.0	178.5	192,100 *
120	56.3	175.1	179,600 *
125	54.5	171.4	168,300 *
130	52.7	167.6	157,900 *
135	50.9	163.4	148,400 *
140	49.0	159.0	139,600 *
145	47.0	154.3	131,500 *
150	45.0	149.2	124,000 *
155	42.8	143.7	117,000 *
160	40.6	137.9	110,400 *
165	38.3	131.5	104,300 *
170	35.8	124.5	98,600 *
175	33.2	116.8	93,200 *
180	30.4	108.3	88,100 *
185	27.3	98.7	83,300 *
190	23.8	87.5	78,700 *
195	19.6	74.0	74,400 *

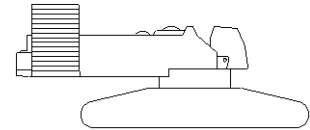
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. Boom			
38	82.6	228.9	768,500 *
40	82.1	228.6	728,600 *
45	80.8	227.7	643,100 *
50	79.5	226.8	568,500 *
55	78.1	225.7	508,000 *
60	76.8	224.4	457,900 *
65	75.5	223.1	415,700 *
70	74.1	221.6	379,800 *
75	72.7	220.0	348,700 *
80	71.3	218.2	321,700 *
85	70.0	216.4	297,800 *
90	68.6	214.3	276,100 *
95	67.1	212.2	254,400 *
100	65.7	209.9	235,200 *
105	64.2	207.4	218,100 *
110	62.8	204.7	202,800 *
115	61.3	201.9	189,000 *
120	59.8	199.0	176,500 *
125	58.2	195.8	165,200 *
130	56.7	192.5	154,800 *
135	55.1	188.9	145,200 *
140	53.4	185.1	136,400 *
145	51.8	181.1	128,300 *
150	50.1	176.9	120,800 *
155	48.3	172.4	113,800 *
160	46.5	167.6	107,200 *
165	44.6	162.4	101,100 *
170	42.7	157.0	95,400 *
175	40.7	151.1	90,000 *
180	38.6	144.8	84,900 *
185	36.4	137.9	80,200 *
190	34.1	130.5	75,600 *
195	31.6	122.4	71,300 *
200	28.9	113.3	67,300 *
205	25.9	103.1	63,400 *
210	22.6	91.4	59,700 *
215	18.7	77.1	55,700 *

Liftcrane Boom Capacities

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Boom No. 55 or No. 55A with 100 Ft. Mast No. 56
528,000 Lb. Crane Counterweight
320,000 Lb. Carbody Counterweight
360 Degree Rating



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 Ft. Boom			
40	82.8	248.9	725,900 *
45	81.6	248.1	640,800 *
50	80.4	247.2	566,200 *
55	79.1	246.1	505,600 *
60	77.9	245.0	455,500 *
65	76.7	243.8	413,300 *
70	75.5	242.4	377,400 *
75	74.2	241.0	346,300 *
80	73.0	239.4	319,200 *
85	71.7	237.7	295,400 *
90	70.4	235.9	274,300 *
95	69.1	233.9	252,600
100	67.9	231.8	233,400
105	66.5	229.6	216,300
110	65.2	227.2	200,900
115	63.9	224.7	187,100
120	62.5	222.1	174,600
125	61.2	219.3	163,200
130	59.8	216.3	152,800
135	58.4	213.2	143,300
140	56.9	209.9	134,500
145	55.5	206.4	126,300
150	54.0	202.7	118,800
155	52.5	198.8	111,800
160	51.0	194.7	105,300
165	49.4	190.3	99,100
170	47.7	185.7	93,400
175	46.1	180.8	88,000
180	44.4	175.7	83,000
185	42.6	170.2	78,200
190	40.8	164.3	73,700
195	38.8	158.1	69,400
200	36.8	151.4	65,400
205	34.7	144.1	61,500
210	32.5	136.3	57,900
215	30.1	127.7	54,400
220	27.6	118.1	50,400 *
225	24.8	107.4	46,400 *
230	21.6	95.0	42,600 *
235	17.8	80.1	38,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. Boom			
45	82.2	268.3	636,700 *
50	81.1	267.5	562,400 *
55	80.0	266.6	501,800 *
60	78.9	265.5	451,700 *
65	77.7	264.4	409,500 *
70	76.6	263.1	373,500 *
75	75.5	261.8	342,500 *
80	74.3	260.4	315,400 *
85	73.2	258.8	291,500 *
90	72.0	257.1	270,400 *
95	70.8	255.3	249,500
100	69.7	253.4	230,300
105	68.5	251.4	213,100
110	67.3	249.3	197,700
115	66.1	247.0	183,900
120	64.8	244.6	171,300
125	63.6	242.1	159,900
130	62.3	239.4	149,500
135	61.1	236.6	139,900
140	59.8	233.6	131,100
145	58.5	230.5	122,900
150	57.2	227.2	115,400
155	55.9	223.8	108,400
160	54.5	220.2	101,800
165	53.1	216.4	95,700
170	51.7	212.4	90,000
175	50.3	208.1	84,600
180	48.8	203.7	79,500
185	47.3	199.0	74,700
190	45.7	194.1	70,200
195	44.1	188.9	65,900
200	42.5	183.4	61,900
205	40.8	177.6	58,100
210	39.0	171.4	54,400
215	37.2	164.7	50,500 *
220	35.3	157.6	46,500 *
225	33.3	150.0	42,600 *
230	31.2	141.7	38,900 *
235	28.9	132.7	35,300 *
240	26.4	122.7	31,800 *
245	23.7	111.5	28,500 *
250	20.7	98.5	25,200 *
255	17.1	82.9	21,900 *

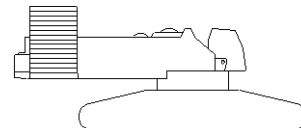
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280 Ft. Boom			
45	82.8	288.5	633,700 *
50	81.8	287.8	559,800 *
55	80.7	286.9	499,200 *
60	79.7	286.0	449,000 *
65	78.6	284.9	406,800 *
70	77.6	283.8	370,800 *
75	76.5	282.5	339,700 *
80	75.5	281.2	312,600 *
85	74.4	279.7	288,800 *
90	73.3	278.2	267,600 *
95	72.3	276.5	247,400
100	71.2	274.8	228,100
105	70.1	272.9	210,900
110	69.0	271.0	195,500
115	67.9	268.9	181,600
120	66.8	266.7	169,000
125	65.6	264.4	157,600
130	64.5	262.0	147,100
135	63.3	259.4	137,600
140	62.2	256.7	128,700
145	61.0	253.9	120,600
150	59.8	250.9	113,000
155	58.6	247.8	106,000
160	57.4	244.6	99,400
165	56.2	241.2	93,300
170	54.9	237.6	87,500
175	53.6	233.9	82,200
180	52.3	230.0	77,100
185	51.0	225.9	72,300
190	49.7	221.6	67,800
195	48.3	217.1	63,500
200	46.9	212.4	59,500
205	45.4	207.4	55,700
210	43.9	202.1	52,000 *
215	42.4	196.6	47,800 *
220	40.9	190.8	43,800 *
225	39.2	184.6	40,000 *
230	37.5	178.1	36,300 *
235	35.8	171.1	32,800 *
240	34.0	163.7	29,400 *
245	32.0	155.7	26,100 *
250	30.0	147.0	23,000 *
255	27.8	137.6	19,900 *
260	25.4	127.1	16,900 *

Liftcrane Boom Capacities

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Boom No. 55 or No. 55A with 100 Ft. Mast No. 56
528,000 Lb. Crane Counterweight
320,000 Lb. Carbody Counterweight
360 Degree Rating



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
300 Ft. Boom			
50	82.3	308.0	556,000 *
55	81.3	307.2	495,300 *
60	80.4	306.3	445,100 *
65	79.4	305.3	402,900 *
70	78.4	304.3	366,800 *
75	77.4	303.1	335,800 *
80	76.5	301.9	308,600 *
85	75.5	300.5	284,800 *
90	74.5	299.1	263,700 *
95	73.5	297.6	244,200 *
100	72.5	296.0	224,800 *
105	71.5	294.2	207,600 *
110	70.5	292.4	192,100 *
115	69.4	290.5	178,200 *
120	68.4	288.5	165,600 *
125	67.4	286.4	154,200 *
130	66.3	284.1	143,700 *
135	65.3	281.8	134,100 *
140	64.2	279.3	125,200 *
145	63.1	276.7	117,000 *
150	62.0	274.0	109,400 *
155	60.9	271.2	102,400 *
160	59.8	268.3	95,800 *
165	58.7	265.2	89,700 *
170	57.6	262.0	83,900 *
175	56.4	258.6	78,500 *
180	55.3	255.1	73,500 *
185	54.1	251.4	68,700 *
190	52.9	247.6	64,200 *
195	51.6	243.6	59,900 *
200	50.4	239.4	55,900 *
205	49.1	235.0	51,700 *
210	47.8	230.4	47,400 *
215	46.5	225.7	43,200 *
220	45.2	220.6	39,200 *
225	43.8	215.4	35,400 *
230	42.4	209.9	31,800 *
235	40.9	204.0	28,300 *
240	39.4	197.9	24,900 *
245	37.8	191.4	21,700 *
250	36.2	184.6	18,600 *
255	34.5	177.3	15,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
320 Ft. Boom			
50	82.8	328.2	546,600 *
55	81.9	327.5	495,400 *
60	81.0	326.6	445,100 *
65	80.1	325.7	402,900 *
70	79.2	324.7	366,900 *
75	78.2	323.6	335,800 *
80	77.3	322.5	308,700 *
85	76.4	321.2	284,800 *
90	75.5	319.9	263,700 *
95	74.5	318.5	244,700 *
100	73.6	317.0	225,300 *
105	72.7	315.4	208,100 *
110	71.7	313.7	192,600 *
115	70.8	311.9	178,700 *
120	69.8	310.0	166,100 *
125	68.9	308.0	154,600 *
130	67.9	306.0	144,100 *
135	66.9	303.8	134,500 *
140	65.9	301.5	125,600 *
145	64.9	299.1	117,400 *
150	63.9	296.7	109,800 *
155	62.9	294.1	102,800 *
160	61.9	291.4	96,200 *
165	60.9	288.5	90,100 *
170	59.8	285.6	84,300 *
175	58.8	282.5	78,900 *
180	57.7	279.3	73,800 *
185	56.7	276.0	69,100 *
190	55.6	272.5	64,500 *
195	54.5	268.9	60,300 *
200	53.3	265.1	56,200 *
205	52.2	261.2	52,000 *
210	51.0	257.1	47,800 *
215	49.9	252.9	43,900 *
220	48.7	248.4	40,100 *
225	47.5	243.8	36,300 *
230	46.2	239.0	32,700 *
235	44.9	233.9	29,200 *
240	43.6	228.6	25,800 *
245	42.3	223.1	22,600 *
250	40.9	217.3	19,500 *
255	39.5	211.2	16,600 *