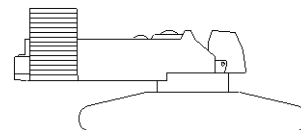


Liftcrane Boom Capacities

18000

Boom No. 55 or No. 55A with 100 ft Mast No. 56
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing



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 (*).

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. 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. 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, 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 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	
Boom Length	Jib Length
320 ft	—
300 ft	—
280 ft	—
260 ft	—
240 ft	—
220 ft	50 ft
200 ft	90 ft
180 ft	110 ft
Load block, hook and weight ball on ground at start.	

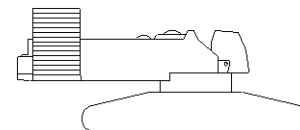
Deduct From Capacities When Jib is Attached	
Jib Length	Jib No. 79A
50 ft	106,100 lb
70 ft	123,600 lb
90 ft	143,800 lb
110 ft	159,400 lb
Weight of jib and 27,000 lb suspended beneath jib point sheaves have been included in deduct.	

Consult chart No. 8558-B 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

18000
Boom No. 55 or No. 55A with 100 ft Mast No. 56
528,000 lb Crane Counterweight
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Rating Over End of Blocked Crawlers
No Travel - Limited Swing


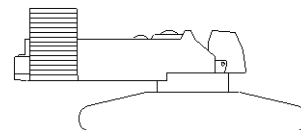
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120.0 ft Boom			
24	83.2	129.9	1,322,800 *
26	82.3	129.6	1,145,700 *
28	81.3	129.2	1,065,800 *
30	80.3	128.8	995,900 *
32	79.3	128.4	934,100 *
34	78.4	127.9	879,200 *
36	77.4	127.4	830,100 *
38	76.4	126.8	785,900 *
40	75.4	126.2	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	312,400 *
90	47.3	96.2	291,200 *
95	43.8	90.9	272,300 *
100	40.1	84.8	255,300 *
105	36.0	77.9	239,900 *
110	31.4	69.7	225,800 *
115	26.0	59.6	213,000 *
120	19.1	46.0	200,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140.0 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	309,900 *
90	54.6	122.7	288,800 *
95	52.0	118.7	269,900 *
100	49.3	114.3	253,000 *
105	46.5	109.5	237,600 *
110	43.5	104.1	223,700 *
115	40.3	98.1	211,000 *
120	36.8	91.4	199,300 *
125	33.1	83.6	188,500 *
130	28.8	74.6	178,400 *
135	23.9	63.5	167,300 *
140	17.5	48.8	156,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160.0 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	285,600 *
95	57.5	143.7	266,800 *
100	55.3	140.2	249,800 *
105	53.1	136.4	234,500 *
110	50.8	132.2	220,600 *
115	48.3	127.7	207,900 *
120	45.8	122.7	196,300 *
125	43.2	117.3	185,600 *
130	40.4	111.4	175,800 *
135	37.4	104.8	166,600 *
140	34.3	97.4	156,700 *
145	30.8	89.0	147,400 *
150	26.8	79.2	138,600 *
155	22.2	67.2	130,200 *
160	16.2	51.3	122,000 *

Liftcrane Boom Capacities

18000

Boom No. 55 or No. 55A with 100 ft Mast No. 56
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing


Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180.0 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	282,300 *
95	61.6	167.3	263,400 *
100	59.7	164.3	246,500 *
105	57.8	161.1	231,200 *
110	55.9	157.6	217,300 *
115	53.9	153.9	204,600 *
120	51.9	149.9	193,000 *
125	49.8	145.6	182,300 *
130	47.6	141.0	172,400 *
135	45.3	136.0	163,300 *
140	43.0	130.5	154,500 *
145	40.5	124.6	145,200 *
150	37.9	118.1	136,600 *
155	35.1	111.0	128,500 *
160	32.2	103.0	120,800 *
165	28.9	94.0	113,600 *
170	25.2	83.5	106,700 *
175	20.8	70.7	100,000 *
180	15.2	53.8	93,500 *

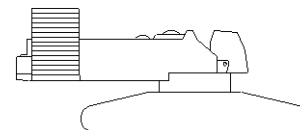
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200.0 ft Boom			
36	82.5	209.0	816,700 *
38	81.9	208.7	772,500 *
40	81.3	208.3	732,600 *
45	79.9	207.4	646,600 *
50	78.4	206.3	572,000 *
55	76.9	205.1	511,600 *
60	75.4	203.7	461,500 *
65	73.9	202.2	419,400 *
70	72.4	200.6	383,400 *
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	280,400 *
95	64.7	190.0	261,600 *
100	63.1	187.4	244,600 *
105	61.4	184.6	229,300 *
110	59.7	181.6	215,400 *
115	58.0	178.5	202,800 *
120	56.3	175.1	191,200 *
125	54.5	171.4	180,500 *
130	52.7	167.6	170,600 *
135	50.9	163.4	161,500 *
140	49.0	159.0	153,000 *
145	47.0	154.3	144,500 *
150	45.0	149.2	135,900 *
155	42.8	143.7	127,800 *
160	40.6	137.9	120,300 *
165	38.3	131.5	113,200 *
170	35.8	124.5	106,400 *
175	33.2	116.8	100,100 *
180	30.4	108.3	94,000 *
185	27.3	98.7	88,200 *
190	23.8	87.5	82,700 *
195	19.6	74.0	77,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220.0 ft Boom			
38	82.6	228.9	768,500 *
40	82.1	228.6	728,600 *
45	80.8	227.8	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	276,700 *
95	67.1	212.2	257,900 *
100	65.7	209.9	240,900 *
105	64.2	207.4	225,600 *
110	62.8	204.8	211,700 *
115	61.3	201.9	199,100 *
120	59.8	199.0	187,400 *
125	58.2	195.8	176,800 *
130	56.7	192.5	166,900 *
135	55.1	188.9	157,800 *
140	53.4	185.1	149,400 *
145	51.8	181.1	140,900 *
150	50.1	176.9	132,400 *
155	48.3	172.4	124,300 *
160	46.5	167.6	116,800 *
165	44.6	162.4	109,700 *
170	42.7	157.0	103,000 *
175	40.7	151.1	96,600 *
180	38.6	144.8	90,700 *
185	36.4	137.9	85,000 *
190	34.1	130.5	79,600 *
195	31.6	122.4	74,400 *
200	28.9	113.3	69,500 *
205	25.9	103.1	64,800 *
210	22.6	91.4	60,200 *
215	18.7	77.1	55,700 *

Liftcrane Boom Capacities

18000

Boom No. 55 or No. 55A with 100 ft Mast No. 56
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing



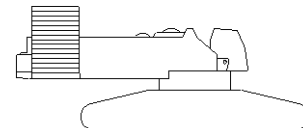
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240.0 ft Boom			
40	82.8	248.9	725,900 *
45	81.6	248.1	640,800 *
50	80.4	247.2	566,200 *
55	79.1	246.1	505,600 *
60	77.9	245.0	455,500 *
65	76.7	243.8	413,300 *
70	75.5	242.4	377,400 *
75	74.2	241.0	346,300 *
80	73.0	239.4	319,200 *
85	71.7	237.7	295,400 *
90	70.4	235.9	274,300 *
95	69.1	233.9	255,400 *
100	67.9	231.8	238,500 *
105	66.5	229.6	223,200 *
110	65.2	227.2	209,300 *
115	63.9	224.7	196,600 *
120	62.5	222.1	185,000 *
125	61.2	219.3	174,400 *
130	59.8	216.3	164,500 *
135	58.4	213.2	155,400 *
140	56.9	209.9	146,500 *
145	55.5	206.4	137,800 *
150	54.0	202.7	129,600 *
155	52.5	198.8	121,900 *
160	51.0	194.7	114,800 *
165	49.4	190.3	107,700 *
170	47.7	185.7	101,000 *
175	46.1	180.8	94,700 *
180	44.4	175.7	88,700 *
185	42.6	170.2	83,100 *
190	40.8	164.3	77,700 *
195	38.8	158.1	72,600 *
200	36.8	151.4	67,800 *
205	34.7	144.1	63,200 *
210	32.5	136.3	58,700 *
215	30.1	127.7	54,500 *
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
260.0 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	251,500 *
100	69.7	253.4	234,600 *
105	68.5	251.4	219,300 *
110	67.3	249.3	205,400 *
115	66.1	247.0	192,700 *
120	64.8	244.6	181,100 *
125	63.6	242.1	170,500 *
130	62.3	239.4	160,600 *
135	61.1	236.6	150,700 *
140	59.8	233.6	141,300 *
145	58.5	230.5	132,600 *
150	57.2	227.2	124,400 *
155	55.9	223.8	116,700 *
160	54.5	220.2	109,600 *
165	53.1	216.4	102,800 *
170	51.7	212.4	96,500 *
175	50.3	208.1	90,500 *
180	48.8	203.7	84,500 *
185	47.3	199.0	78,900 *
190	45.7	194.1	73,600 *
195	44.1	188.9	68,500 *
200	42.5	183.4	63,700 *
205	40.8	177.6	59,100 *
210	39.0	171.4	54,700 *
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
280.0 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	248,800 *
100	71.2	274.8	231,800 *
105	70.1	272.9	216,500 *
110	69.0	271.0	202,600 *
115	67.9	268.9	190,000 *
120	66.8	266.7	178,400 *
125	65.6	264.4	167,700 *
130	64.5	262.0	157,200 *
135	63.3	259.4	147,100 *
140	62.2	256.7	137,700 *
145	61.0	253.9	128,900 *
150	59.8	250.9	120,700 *
155	58.6	247.8	113,100 *
160	57.4	244.6	105,900 *
165	56.2	241.2	99,200 *
170	54.9	237.6	92,800 *
175	53.6	233.9	86,900 *
180	52.3	230.0	81,200 *
185	51.0	225.9	75,900 *
190	49.7	221.6	70,800 *
195	48.3	217.1	65,700 *
200	46.9	212.4	60,900 *
205	45.4	207.4	56,300 *
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

18000

Boom No. 55 or No. 55A with 100 ft Mast No. 56
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing


Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
300.0 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	244,800 *
100	72.5	296.0	227,800 *
105	71.5	294.2	212,500 *
110	70.5	292.4	198,600 *
115	69.4	290.5	185,900 *
120	68.4	288.5	174,300 *
125	67.4	286.4	162,800 *
130	66.3	284.1	151,800 *
135	65.3	281.8	141,700 *
140	64.2	279.3	132,300 *
145	63.1	276.7	123,500 *
150	62.0	274.0	115,400 *
155	60.9	271.2	107,700 *
160	59.8	268.3	100,600 *
165	58.7	265.2	93,800 *
170	57.6	262.0	87,500 *
175	56.4	258.6	81,500 *
180	55.3	255.1	75,900 *
185	54.1	251.4	70,500 *
190	52.9	247.6	65,500 *
195	51.6	243.6	60,700 *
200	50.4	239.4	56,100 *
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
320.0 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	244,800 *
100	73.6	317.0	227,900 *
105	72.7	315.4	212,600 *
110	71.7	313.7	198,700 *
115	70.8	311.9	186,000 *
120	69.8	310.0	174,400 *
125	68.9	308.0	162,900 *
130	67.9	306.0	151,900 *
135	66.9	303.8	141,800 *
140	65.9	301.5	132,400 *
145	64.9	299.1	123,700 *
150	63.9	296.7	115,500 *
155	62.9	294.1	107,900 *
160	61.9	291.4	100,700 *
165	60.9	288.5	94,000 *
170	59.8	285.6	87,700 *
175	58.8	282.5	81,700 *
180	57.7	279.3	76,100 *
185	56.7	276.0	70,700 *
190	55.6	272.5	65,700 *
195	54.5	268.9	60,900 *
200	53.3	265.1	56,300 *
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 *