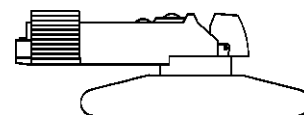


Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
384,000 Lb. Crane Counterweight
144,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



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 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. 8514-A or 8514-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 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-A**.

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, 384,000 Lb. crane counterweight and 144,000 Lb. carbody counterweight.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
360 Ft.	320 Ft.
Load block, hook and weight ball on ground at start.	

Upper Boom Point Deduct
Deduct 600 Lbs. from capacities when upper boom point No. A08516 is attached.

Boom Catwalks Deduct
Deduct 800 Lbs. from capacities when boom catwalks are attached.

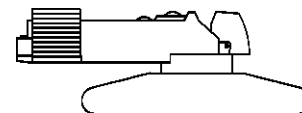
Upper Boom Point Capacity For Liftcrane Service - Whip Line		
28 mm		32 mm
Drum 2	Drum 3	Drum 2
Single Part Line		
35,800 Lb.	30,000 Lb.	48,800 Lb.
Two Part Line		
Upper Boom Point No. 170419		
60,000 Lb.	60,000 Lb.	60,000 Lb.
Upper Boom Point No. A08516		
71,600 Lb.	60,000 Lb.	97,600 Lb.
In all cases,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

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
384,000 Lb. Crane Counterweight
144,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. Boom			
26	82.2	129.6	1,000,000 *
28	81.3	129.2	1,000,000 *
30	80.3	128.8	937,500 *
32	79.3	128.4	880,000 *
34	78.3	127.9	828,900 *
36	77.3	127.4	780,100 *
38	76.3	126.8	734,300 *
40	75.4	126.2	693,400 *
45	72.8	124.6	607,600 *
50	70.3	122.7	520,500
55	67.7	120.6	450,900
60	65.0	118.1	396,600
65	62.3	115.4	353,000
70	59.5	112.3	317,200
75	56.6	108.9	287,300
80	53.7	105.2	262,000
85	50.5	100.9	240,200
90	47.2	96.2	221,300
95	43.8	90.9	204,700
100	40.0	84.8	190,000
105	35.9	77.9	176,900
110	31.3	69.7	165,100
115	26.0	59.6	154,400
120	19.0	46.0	144,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. Boom			
28	82.5	149.5	999,300 *
30	81.7	149.2	934,300 *
32	80.9	148.8	876,900 *
34	80.0	148.4	825,800 *
36	79.2	148.0	777,600 *
38	78.3	147.5	731,900 *
40	77.5	147.0	690,900 *
45	75.4	145.6	605,300 *
50	73.2	144.0	519,900
55	71.1	142.2	450,100
60	68.9	140.2	395,700
65	66.6	137.9	352,000
70	64.3	135.4	316,200
75	62.0	132.7	286,300
80	59.6	129.7	260,900
85	57.1	126.3	239,100
90	54.6	122.7	220,200
95	52.0	118.7	203,600
100	49.3	114.3	188,900
105	46.4	109.5	175,800
110	43.4	104.1	164,100
115	40.2	98.1	153,500
120	36.8	91.3	143,900
125	33.0	83.6	135,200
130	28.8	74.6	127,100
135	23.8	63.5	119,700
140	17.5	48.7	112,700

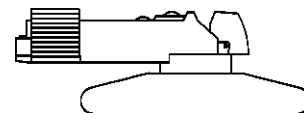
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. Boom			
30	82.7	169.5	930,300 *
32	82.0	169.1	872,900 *
34	81.3	168.8	822,000 *
36	80.6	168.4	774,300 *
38	79.8	168.0	728,600 *
40	79.1	167.6	687,700 *
45	77.3	166.4	602,100 *
50	75.4	165.0	518,500
55	73.5	163.4	448,600
60	71.6	161.7	394,000
65	69.7	159.8	350,300
70	67.8	157.6	314,400
75	65.8	155.3	284,400
80	63.8	152.8	258,900
85	61.7	150.0	237,100
90	59.6	147.0	218,200
95	57.5	143.7	201,500
100	55.3	140.2	186,900
105	53.1	136.4	173,800
110	50.7	132.2	162,100
115	48.3	127.7	151,500
120	45.8	122.7	141,900
125	43.2	117.3	133,200
130	40.4	111.3	125,200
135	37.4	104.8	117,800
140	34.2	97.4	111,000
145	30.7	89.0	104,700
150	26.8	79.2	98,900
155	22.2	67.2	93,400
160	16.2	51.3	88,200

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
384,000 Lb. Crane Counterweight
144,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. Boom			
32	82.9	189.4	820,700 *
34	82.3	189.1	820,500 *
36	81.6	188.7	773,300 *
38	81.0	188.4	727,600 *
40	80.3	188.0	686,700 *
45	78.7	186.9	601,100 *
50	77.1	185.7	519,000
55	75.4	184.4	448,900
60	73.7	182.8	394,200
65	72.1	181.1	350,300
70	70.4	179.3	314,300
75	68.7	177.3	284,200
80	66.9	175.1	258,700
85	65.2	172.7	236,800
90	63.4	170.1	217,800
95	61.5	167.3	201,200
100	59.7	164.3	186,400
105	57.8	161.1	173,300
110	55.9	157.6	161,600
115	53.9	153.9	151,000
120	51.8	149.9	141,400
125	49.7	145.6	132,700
130	47.6	141.0	124,700
135	45.3	135.9	117,300
140	43.0	130.5	110,500
145	40.5	124.6	104,300
150	37.9	118.1	98,500
155	35.1	111.0	93,000
160	32.1	103.0	88,000
165	28.8	94.0	83,200
170	25.1	83.5	78,700
175	20.8	70.7	74,500
180	15.2	53.8	70,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. Boom			
36	82.5	209.0	754,200 *
38	81.9	208.7	727,400 *
40	81.3	208.3	686,500 *
45	79.8	207.4	600,900 *
50	78.4	206.3	520,100
55	76.9	205.1	449,800
60	75.4	203.7	395,000
65	73.9	202.2	351,000
70	72.4	200.6	315,000
75	70.9	198.8	284,800
80	69.4	196.8	259,300
85	67.8	194.7	237,400
90	66.2	192.5	218,300
95	64.6	190.0	201,600
100	63.0	187.4	186,900
105	61.4	184.6	173,800
110	59.7	181.6	162,000
115	58.0	178.5	151,400
120	56.3	175.1	141,800
125	54.5	171.4	133,100
130	52.7	167.6	125,100
135	50.9	163.4	117,700
140	48.9	159.0	110,900
145	47.0	154.3	104,700
150	44.9	149.2	98,900
155	42.8	143.7	93,500
160	40.6	137.9	88,400
165	38.3	131.5	83,700
170	35.8	124.5	79,300
175	33.2	116.8	75,100
180	30.4	108.3	71,200
185	27.3	98.7	67,400
190	23.8	87.5	63,900
195	19.6	74.0	60,500

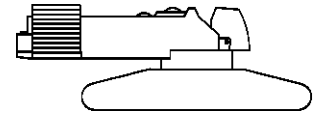
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. Boom			
38	82.6	228.9	683,200 *
40	82.1	228.6	683,200 *
45	80.8	227.7	599,200 *
50	79.5	226.8	519,800
55	78.1	225.7	449,400
60	76.8	224.4	394,400
65	75.4	223.1	350,300
70	74.1	221.6	314,100
75	72.7	220.0	283,900
80	71.3	218.2	258,300
85	69.9	216.4	236,400
90	68.5	214.3	217,300
95	67.1	212.2	200,600
100	65.7	209.9	185,800
105	64.2	207.4	172,600
110	62.8	204.7	160,900
115	61.3	201.9	150,200
120	59.7	199.0	140,600
125	58.2	195.8	131,900
130	56.6	192.5	123,900
135	55.0	188.9	116,500
140	53.4	185.1	109,700
145	51.7	181.1	103,500
150	50.0	176.9	97,700
155	48.3	172.4	92,300
160	46.5	167.6	87,200
165	44.6	162.4	82,500
170	42.7	157.0	78,100
175	40.7	151.1	73,900
180	38.6	144.8	70,000
185	36.4	137.9	66,300
190	34.0	130.5	62,800
195	31.5	122.4	59,500
200	28.9	113.3	56,400
205	25.9	103.1	53,300
210	22.6	91.3	50,500
215	18.6	77.1	47,700

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
384,000 Lb. Crane Counterweight
144,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 Ft. Boom			
40	82.8	248.9	633,700 *
45	81.6	248.1	598,400 *
50	80.3	247.1	520,000
55	79.1	246.1	449,500
60	77.9	245.0	394,400
65	76.7	243.8	350,200
70	75.4	242.4	314,000
75	74.2	241.0	283,700
80	72.9	239.4	258,100
85	71.7	237.7	236,100
90	70.4	235.9	217,000
95	69.1	233.9	200,200
100	67.8	231.8	185,500
105	66.5	229.6	172,300
110	65.2	227.2	160,500
115	63.9	224.7	149,900
120	62.5	222.1	140,200
125	61.2	219.3	131,500
130	59.8	216.3	123,500
135	58.4	213.2	116,100
140	56.9	209.9	109,300
145	55.5	206.4	103,100
150	54.0	202.7	97,300
155	52.5	198.8	91,900
160	50.9	194.7	86,800
165	49.3	190.3	82,100
170	47.7	185.7	77,700
175	46.1	180.8	73,600
180	44.3	175.7	69,700
185	42.6	170.2	66,000
190	40.7	164.3	62,500
195	38.8	158.1	59,200
200	36.8	151.4	56,100
205	34.7	144.1	53,100
210	32.5	136.2	50,300
215	30.1	127.7	47,600
220	27.6	118.1	45,000
225	24.7	107.4	42,500
230	21.5	95.0	40,100
235	17.8	80.1	37,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. Boom			
45	82.2	268.3	562,600 *
50	81.1	267.5	509,600 *
55	80.0	266.5	448,600
60	78.9	265.5	393,400
65	77.7	264.4	349,100
70	76.6	263.1	312,800
75	75.4	261.8	282,500
80	74.3	260.4	256,800
85	73.1	258.8	234,700
90	72.0	257.1	215,600
95	70.8	255.3	198,800
100	69.6	253.4	184,000
105	68.4	251.4	170,800
110	67.2	249.3	159,000
115	66.0	247.0	148,300
120	64.8	244.6	138,700
125	63.6	242.1	129,900
130	62.3	239.4	121,900
135	61.1	236.6	114,500
140	59.8	233.6	107,700
145	58.5	230.5	101,500
150	57.2	227.2	95,700
155	55.8	223.8	90,300
160	54.5	220.2	85,200
165	53.1	216.4	80,500
170	51.7	212.4	76,100
175	50.2	208.1	72,000
180	48.8	203.7	68,100
185	47.3	199.0	64,400
190	45.7	194.1	60,900
195	44.1	188.9	57,600
200	42.5	183.4	54,500
205	40.8	177.6	51,600
210	39.0	171.4	48,700
215	37.2	164.7	46,100
220	35.3	157.6	43,500
225	33.3	150.0	41,100
230	31.2	141.7	38,700
235	28.9	132.7	36,500
240	26.4	122.7	34,300
245	23.7	111.5	32,200
250	20.6	98.5	30,200
255	17.0	82.9	28,200

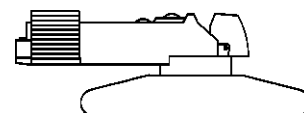
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280 Ft. Boom			
45	82.8	288.5	488,000 *
50	81.7	287.8	481,200 *
55	80.7	286.9	440,100 *
60	79.7	286.0	393,000
65	78.6	284.9	348,600
70	77.6	283.8	312,200
75	76.5	282.5	281,800
80	75.5	281.2	256,100
85	74.4	279.7	234,000
90	73.3	278.2	214,800
95	72.2	276.5	198,000
100	71.2	274.8	183,200
105	70.1	272.9	170,000
110	69.0	271.0	158,200
115	67.9	268.9	147,500
120	66.7	266.7	137,800
125	65.6	264.4	129,100
130	64.5	262.0	121,000
135	63.3	259.4	113,700
140	62.2	256.7	106,900
145	61.0	253.9	100,600
150	59.8	250.9	94,800
155	58.6	247.8	89,400
160	57.4	244.6	84,300
165	56.1	241.2	79,600
170	54.9	237.6	75,200
175	53.6	233.9	71,100
180	52.3	230.0	67,200
185	51.0	225.9	63,500
190	49.6	221.6	60,100
195	48.3	217.1	56,800
200	46.9	212.4	53,700
205	45.4	207.4	50,700
210	43.9	202.1	47,900
215	42.4	196.6	45,300
220	40.8	190.8	42,700
225	39.2	184.6	40,300
230	37.5	178.1	38,000
235	35.8	171.1	35,700
240	33.9	163.7	33,600
245	32.0	155.7	31,500
250	30.0	147.0	29,600
255	27.8	137.6	27,700
260	25.4	127.1	25,800
265	22.8	115.4	24,100
270	19.8	101.9	22,300
275	16.4	85.7	20,600

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
384,000 Lb. Crane Counterweight
144,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
300 Ft. Boom			
50	82.3	308.0	430,500 *
55	81.3	307.2	416,100 *
60	80.4	306.3	383,400 *
65	79.4	305.3	347,300
70	78.4	304.3	310,800
75	77.4	303.1	280,400
80	76.4	301.9	254,600
85	75.5	300.5	232,500
90	74.5	299.1	213,200
95	73.5	297.6	196,400
100	72.5	296.0	181,500
105	71.5	294.2	168,300
110	70.4	292.4	156,400
115	69.4	290.5	145,800
120	68.4	288.5	136,100
125	67.3	286.4	127,300
130	66.3	284.1	119,200
135	65.2	281.8	111,900
140	64.2	279.3	105,100
145	63.1	276.7	98,800
150	62.0	274.0	93,000
155	60.9	271.2	87,500
160	59.8	268.3	82,500
165	58.7	265.2	77,800
170	57.6	262.0	73,400
175	56.4	258.6	69,200
180	55.2	255.1	65,300
185	54.1	251.4	61,700
190	52.9	247.6	58,200
195	51.6	243.6	54,900
200	50.4	239.4	51,800
205	49.1	235.0	48,900
210	47.8	230.4	46,100
215	46.5	225.7	43,400
220	45.1	220.6	40,900
225	43.8	215.4	38,400
230	42.3	209.9	36,100
235	40.9	204.0	33,900
240	39.4	197.9	31,800
245	37.8	191.4	29,700
250	36.2	184.6	27,800
255	34.5	177.3	25,900
260	32.7	169.5	24,100
265	30.9	161.1	22,400
270	28.9	152.1	20,700
275	26.8	142.2	19,000
280	24.5	131.4	17,500
285	22.0	119.2	15,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
320 Ft. Boom			
50	82.8	328.2	397,500 *
55	81.9	327.5	385,100 *
60	81.0	326.6	364,300 *
65	80.1	325.7	337,600 *
70	79.1	324.7	310,000
75	78.2	323.6	279,500
80	77.3	322.5	253,600
85	76.4	321.2	231,400
90	75.5	319.9	212,200
95	74.5	318.5	195,300
100	73.6	317.0	180,400
105	72.7	315.4	167,200
110	71.7	313.7	155,300
115	70.8	311.9	144,600
120	69.8	310.0	134,900
125	68.8	308.0	126,100
130	67.9	306.0	118,100
135	66.9	303.8	110,700
140	65.9	301.5	103,900
145	64.9	299.1	97,600
150	63.9	296.7	91,800
155	62.9	294.1	86,400
160	61.9	291.4	81,300
165	60.9	288.5	76,600
170	59.8	285.6	72,200
175	58.8	282.5	68,100
180	57.7	279.3	64,200
185	56.6	276.0	60,500
190	55.5	272.5	57,000
195	54.4	268.9	53,700
200	53.3	265.1	50,600
205	52.2	261.2	47,700
210	51.0	257.1	44,900
215	49.9	252.9	42,200
220	48.7	248.4	39,700
225	47.4	243.8	37,300
230	46.2	238.9	35,000
235	44.9	233.9	32,800
240	43.6	228.6	30,700
245	42.3	223.1	28,600
250	40.9	217.3	26,700
255	39.5	211.2	24,800
260	38.0	204.7	23,000
265	36.5	198.0	21,300
270	35.0	190.8	19,600
275	33.3	183.2	18,000
280	31.6	175.1	16,400

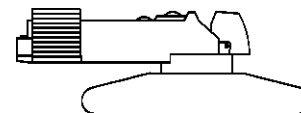
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
340 Ft. Boom			
55	82.4	347.7	313,700 *
60	81.5	346.9	311,600 *
65	80.6	346.1	309,500 *
70	79.8	345.1	298,400 *
75	78.9	344.1	277,900
80	78.1	343.0	252,000
85	77.2	341.9	229,800
90	76.3	340.6	210,500
95	75.5	339.3	193,600
100	74.6	337.9	178,700
105	73.7	336.4	165,400
110	72.8	334.8	153,500
115	71.9	333.1	142,800
120	71.0	331.4	133,100
125	70.1	329.5	124,200
130	69.2	327.6	116,200
135	68.3	325.6	108,800
140	67.4	323.5	102,000
145	66.5	321.2	95,700
150	65.6	318.9	89,800
155	64.6	316.5	84,400
160	63.7	314.0	79,300
165	62.7	311.4	74,600
170	61.8	308.7	70,200
175	60.8	305.9	66,100
180	59.8	302.9	62,200
185	58.8	299.9	58,500
190	57.9	296.7	55,000
195	56.8	293.4	51,700
200	55.8	289.9	48,600
205	54.8	286.4	45,700
210	53.7	282.6	42,900
215	52.7	278.8	40,200
220	51.6	274.8	37,700
225	50.5	270.6	35,300
230	49.4	266.3	33,000
235	48.2	261.8	30,800
240	47.1	257.1	28,600
245	45.9	252.2	26,600
250	44.7	247.1	24,700
255	43.5	241.9	22,800
260	42.2	236.3	21,000
265	40.9	230.5	19,300
270	39.6	224.4	17,600
275	38.2	218.1	16,000

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
384,000 Lb. Crane Counterweight
144,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
360 Ft. Boom			
55	82.8	367.9	298,700 *
60	82.0	367.2	298,300 *
65	81.2	366.4	295,800 *
70	80.4	365.5	282,800 *
75	79.6	364.5	265,300 *
80	78.7	363.5	249,000 *
85	77.9	362.4	228,300
90	77.1	361.2	209,000
95	76.3	360.0	192,100
100	75.5	358.6	177,100
105	74.6	357.2	163,800
110	73.8	355.7	151,900
115	73.0	354.2	141,200
120	72.1	352.5	131,500
125	71.3	350.8	122,600
130	70.5	349.0	114,500
135	69.6	347.1	107,100
140	68.7	345.1	100,300
145	67.9	343.1	94,000
150	67.0	340.9	88,200
155	66.1	338.7	82,700
160	65.3	336.3	77,700
165	64.4	333.9	72,900
170	63.5	331.4	68,500
175	62.6	328.7	64,400
180	61.7	326.0	60,500
185	60.8	323.2	56,800
190	59.8	320.2	53,300
195	58.9	317.2	50,000
200	58.0	314.0	46,900
205	57.0	310.7	44,000
210	56.1	307.3	41,200
215	55.1	303.8	38,500
220	54.1	300.1	36,000
225	53.1	296.4	33,600
230	52.1	292.4	31,300
235	51.1	288.4	29,100
240	50.0	284.1	26,900
245	49.0	279.7	24,900
250	47.9	275.2	23,000
255	46.8	270.4	21,100
260	45.7	265.5	19,300
265	44.5	260.4	17,600
270	43.4	255.1	16,000