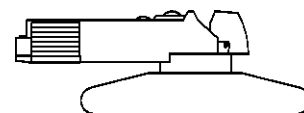


Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
276,000 Lb. Crane Counterweight
56,000 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, 276,000 Lb. crane counterweight and 56,000 Lb. carbody counterweight.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
300 Ft.	280 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.

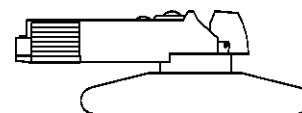
Upper Boom Point Capacity For Liftcrane Service - Whip Line		
28 mm		32 mm
Drum 2	Drum 3	Drum 2
Single Part Line		
35,800 Lb.	30,000 Lb.	48,800 Lb.
Two Part Line		
Upper Boom Point No. 170419		
60,000 Lb.	60,000 Lb.	60,000 Lb.
Upper Boom Point No. A08516		
71,600 Lb.	60,000 Lb.	97,600 Lb.
In all cases, 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
276,000 Lb. Crane Counterweight
56,000 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	944,800 *
30	80.3	128.8	882,500 *
32	79.3	128.4	820,700 *
34	78.3	127.9	766,600 *
36	77.3	127.4	699,400
38	76.3	126.8	636,300
40	75.4	126.2	583,100
45	72.8	124.6	480,500
50	70.3	122.7	406,700
55	67.7	120.6	351,200
60	65.0	118.1	307,800
65	62.3	115.4	273,000
70	59.5	112.3	244,400
75	56.6	108.9	220,600
80	53.7	105.2	200,300
85	50.5	100.9	182,900
90	47.2	96.2	167,800
95	43.8	90.9	154,500
100	40.0	84.8	142,700
105	35.9	77.9	132,200
110	31.3	69.7	122,800
115	26.0	59.6	114,200
120	19.0	46.0	106,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. Boom			
28	82.5	149.5	941,500 *
30	81.7	149.2	879,800 *
32	80.9	148.8	818,100 *
34	80.0	148.4	764,100 *
36	79.2	148.0	699,500
38	78.3	147.5	636,200
40	77.5	147.0	582,900
45	75.4	145.6	480,000
50	73.2	144.0	406,100
55	71.1	142.2	350,400
60	68.9	140.2	307,000
65	66.6	137.9	272,100
70	64.3	135.4	243,500
75	62.0	132.7	219,500
80	59.6	129.7	199,300
85	57.1	126.3	181,800
90	54.6	122.7	166,700
95	52.0	118.7	153,400
100	49.3	114.3	141,700
105	46.4	109.5	131,200
110	43.4	104.1	121,800
115	40.2	98.1	113,300
120	36.8	91.3	105,600
125	33.0	83.6	98,600
130	28.8	74.6	92,100
135	23.8	63.5	86,200
140	17.5	48.7	80,600

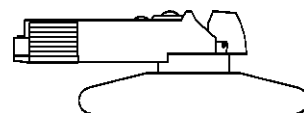
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. Boom			
30	82.7	169.5	876,100 *
32	82.0	169.1	814,700 *
34	81.3	168.8	760,800 *
36	80.6	168.4	699,000
38	79.8	168.0	635,500
40	79.1	167.6	581,900
45	77.3	166.4	478,800
50	75.4	165.0	404,700
55	73.5	163.4	348,900
60	71.6	161.7	305,300
65	69.7	159.8	270,300
70	67.8	157.6	241,600
75	65.8	155.3	217,600
80	63.8	152.8	197,300
85	61.7	150.0	179,800
90	59.6	147.0	164,700
95	57.5	143.7	151,400
100	55.3	140.2	139,600
105	53.1	136.4	129,200
110	50.7	132.2	119,800
115	48.3	127.7	111,300
120	45.8	122.7	103,600
125	43.2	117.3	96,600
130	40.4	111.3	90,200
135	37.4	104.8	84,300
140	34.2	97.4	78,800
145	30.7	89.0	73,800
150	26.8	79.2	69,100
155	22.2	67.2	64,600
160	16.2	51.3	60,400

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
276,000 Lb. Crane Counterweight
56,000 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	813,800 *
34	82.3	189.1	759,800 *
36	81.6	188.7	700,700
38	81.0	188.4	637,000
40	80.3	188.0	583,200
45	78.7	186.9	479,700
50	77.1	185.7	405,300
55	75.4	184.4	349,200
60	73.7	182.8	305,400
65	72.1	181.1	270,300
70	70.4	179.3	241,500
75	68.7	177.3	217,500
80	66.9	175.1	197,100
85	65.2	172.7	179,600
90	63.4	170.1	164,300
95	61.5	167.3	151,000
100	59.7	164.3	139,200
105	57.8	161.1	128,700
110	55.9	157.6	119,300
115	53.9	153.9	110,800
120	51.8	149.9	103,100
125	49.7	145.6	96,100
130	47.6	141.0	89,700
135	45.3	135.9	83,800
140	43.0	130.5	78,400
145	40.5	124.6	73,300
150	37.9	118.1	68,600
155	35.1	111.0	64,300
160	32.1	103.0	60,200
165	28.8	94.0	56,400
170	25.1	83.5	52,700
175	20.8	70.7	49,300
180	15.2	53.8	46,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. Boom			
36	82.5	209.0	702,600
38	81.9	208.7	638,700
40	81.3	208.3	584,800
45	79.8	207.4	481,000
50	78.4	206.3	406,300
55	76.9	205.1	350,100
60	75.4	203.7	306,300
65	73.9	202.2	271,100
70	72.4	200.6	242,200
75	70.9	198.8	218,100
80	69.4	196.8	197,600
85	67.8	194.7	180,100
90	66.2	192.5	164,800
95	64.6	190.0	151,500
100	63.0	187.4	139,700
105	61.4	184.6	129,100
110	59.7	181.6	119,700
115	58.0	178.5	111,200
120	56.3	175.1	103,500
125	54.5	171.4	96,500
130	52.7	167.6	90,100
135	50.9	163.4	84,200
140	48.9	159.0	78,800
145	47.0	154.3	73,700
150	44.9	149.2	69,100
155	42.8	143.7	64,700
160	40.6	137.9	60,700
165	38.3	131.5	56,900
170	35.8	124.5	53,300
175	33.2	116.8	49,900
180	30.4	108.3	46,800
185	27.3	98.7	43,700
190	23.8	87.5	40,900
195	19.6	74.0	38,100

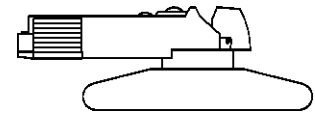
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. Boom			
38	82.6	228.9	639,200
40	82.1	228.6	585,100
45	80.8	227.7	480,900
50	79.5	226.8	406,100
55	78.1	225.7	349,700
60	76.8	224.4	305,700
65	75.4	223.1	270,300
70	74.1	221.6	241,400
75	72.7	220.0	217,200
80	71.3	218.2	196,700
85	69.9	216.4	179,100
90	68.5	214.3	163,800
95	67.1	212.2	150,400
100	65.7	209.9	138,600
105	64.2	207.4	128,000
110	62.8	204.7	118,600
115	61.3	201.9	110,100
120	59.7	199.0	102,300
125	58.2	195.8	95,300
130	56.6	192.5	88,900
135	55.0	188.9	83,000
140	53.4	185.1	77,500
145	51.7	181.1	72,500
150	50.0	176.9	67,900
155	48.3	172.4	63,500
160	46.5	167.6	59,500
165	44.6	162.4	55,700
170	42.7	157.0	52,100
175	40.7	151.1	48,800
180	38.6	144.8	45,600
185	36.4	137.9	42,600
190	34.0	130.5	39,800
195	31.5	122.4	37,100
200	28.9	113.3	34,600
205	25.9	103.1	32,100
210	22.6	91.3	29,800
215	18.6	77.1	27,600

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
276,000 Lb. Crane Counterweight
56,000 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	585,800
45	81.6	248.1	481,300
50	80.3	247.1	406,300
55	79.1	246.1	349,800
60	77.9	245.0	305,600
65	76.7	243.8	270,300
70	75.4	242.4	241,200
75	74.2	241.0	217,000
80	72.9	239.4	196,400
85	71.7	237.7	178,800
90	70.4	235.9	163,500
95	69.1	233.9	150,100
100	67.8	231.8	138,200
105	66.5	229.6	127,700
110	65.2	227.2	118,200
115	63.9	224.7	109,700
120	62.5	222.1	102,000
125	61.2	219.3	94,900
130	59.8	216.3	88,500
135	58.4	213.2	82,600
140	56.9	209.9	77,200
145	55.5	206.4	72,100
150	54.0	202.7	67,500
155	52.5	198.8	63,100
160	50.9	194.7	59,100
165	49.3	190.3	55,300
170	47.7	185.7	51,700
175	46.1	180.8	48,400
180	44.3	175.7	45,300
185	42.6	170.2	42,300
190	40.7	164.3	39,500
195	38.8	158.1	36,800
200	36.8	151.4	34,300
205	34.7	144.1	31,900
210	32.5	136.2	29,600
215	30.1	127.7	27,500
220	27.6	118.1	25,400
225	24.7	107.4	23,300
230	21.5	95.0	21,400
235	17.8	80.1	19,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. Boom			
45	82.2	268.3	480,900
50	81.1	267.5	405,600
55	80.0	266.5	348,900
60	78.9	265.5	304,700
65	77.7	264.4	269,200
70	76.6	263.1	240,100
75	75.4	261.8	215,700
80	74.3	260.4	195,100
85	73.1	258.8	177,400
90	72.0	257.1	162,100
95	70.8	255.3	148,600
100	69.6	253.4	136,700
105	68.4	251.4	126,200
110	67.2	249.3	116,700
115	66.0	247.0	108,100
120	64.8	244.6	100,400
125	63.6	242.1	93,400
130	62.3	239.4	86,900
135	61.1	236.6	81,000
140	59.8	233.6	75,600
145	58.5	230.5	70,500
150	57.2	227.2	65,900
155	55.8	223.8	61,500
160	54.5	220.2	57,500
165	53.1	216.4	53,700
170	51.7	212.4	50,100
175	50.2	208.1	46,800
180	48.8	203.7	43,700
185	47.3	199.0	40,700
190	45.7	194.1	37,900
195	44.1	188.9	35,300
200	42.5	183.4	32,700
205	40.8	177.6	30,400
210	39.0	171.4	28,100
215	37.2	164.7	25,900
220	35.3	157.6	23,800
225	33.3	150.0	21,900
230	31.2	141.7	20,000
235	28.9	132.7	18,100
240	26.4	122.7	16,400

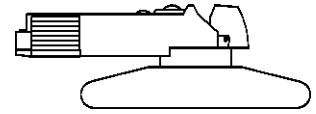
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280 Ft. Boom			
45	82.8	288.5	480,800
50	81.7	287.8	405,400
55	80.7	286.9	348,500
60	79.7	286.0	304,200
65	78.6	284.9	268,600
70	77.6	283.8	239,500
75	76.5	282.5	215,100
80	75.5	281.2	194,400
85	74.4	279.7	176,700
90	73.3	278.2	161,300
95	72.2	276.5	147,900
100	71.2	274.8	136,000
105	70.1	272.9	125,400
110	69.0	271.0	115,900
115	67.9	268.9	107,300
120	66.7	266.7	99,600
125	65.6	264.4	92,500
130	64.5	262.0	86,100
135	63.3	259.4	80,100
140	62.2	256.7	74,700
145	61.0	253.9	69,700
150	59.8	250.9	65,000
155	58.6	247.8	60,600
160	57.4	244.6	56,600
165	56.1	241.2	52,800
170	54.9	237.6	49,300
175	53.6	233.9	45,900
180	52.3	230.0	42,800
185	51.0	225.9	39,800
190	49.6	221.6	37,000
195	48.3	217.1	34,400
200	46.9	212.4	31,900
205	45.4	207.4	29,500
210	43.9	202.1	27,300
215	42.4	196.6	25,100
220	40.8	190.8	23,100
225	39.2	184.6	21,100
230	37.5	178.1	19,200
235	35.8	171.1	17,400
240	33.9	163.7	15,700

Liftcrane Boom Capacities

18000

Boom No. 55-79A with 100 Ft. Mast No. 56
276,000 Lb. Crane Counterweight
56,000 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	404,500
55	81.3	307.2	347,500
60	80.4	306.3	303,000
65	79.4	305.3	267,300
70	78.4	304.3	238,100
75	77.4	303.1	213,600
80	76.4	301.9	192,900
85	75.5	300.5	175,200
90	74.5	299.1	159,700
95	73.5	297.6	146,200
100	72.5	296.0	134,300
105	71.5	294.2	123,700
110	70.4	292.4	114,100
115	69.4	290.5	105,600
120	68.4	288.5	97,800
125	67.3	286.4	90,700
130	66.3	284.1	84,300
135	65.2	281.8	78,300
140	64.2	279.3	72,900
145	63.1	276.7	67,800
150	62.0	274.0	63,200
155	60.9	271.2	58,800
160	59.8	268.3	54,700
165	58.7	265.2	51,000
170	57.6	262.0	47,400
175	56.4	258.6	44,100
180	55.2	255.1	40,900
185	54.1	251.4	38,000
190	52.9	247.6	35,200
195	51.6	243.6	32,500
200	50.4	239.4	30,000
205	49.1	235.0	27,700
210	47.8	230.4	25,400
215	46.5	225.7	23,300
220	45.1	220.6	21,200
225	43.8	215.4	19,300
230	42.3	209.9	17,400
235	40.9	204.0	15,600