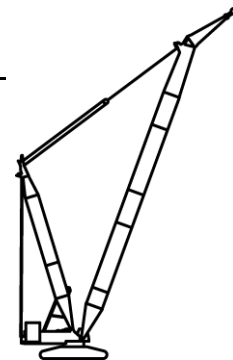


Liftcrane Boom Extended Upper Point Capacities

**Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
456,000 lb Crane Counterweight
232,000 lb Carbody Counterweight
360 Degree Rating**

Meets
ANSI B30.5
Requirements



Manitowoc
18000

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 (*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 30,000 lb, or 60,000 lb with two part line. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.

Weight of all load blocks, hooks, weight balls, slings, hoist lines, etc., beneath upper boom point sheaves, is considered part of extended upper boom point 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-E or 8514-F** 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-C**.

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: Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point (lower sheave) 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, 456,000 lb crane counterweight and 232,000 lb carbody counterweight.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
380 ft	(a) 360 ft
Load block, hook and weight ball on ground at start. (a) When equipped with boom catwalks upperworks jacking cylinders are required.	

Lower boom point must be removed when extended upper boom point is attached.

WARNING: This chart requires boom top modification No. A16449.

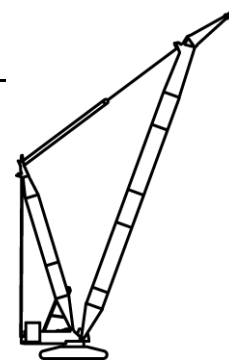
Boom Catwalks Deduct

Deduct 800 lbs from capacities when boom catwalks are attached.

Liftcrane Boom Extended Upper Point Capacities

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Meets
ANSI B30.5
Requirements



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200.0 ft Boom			
50	82.0	230.4	292,800 *
55	80.7	229.4	292,800 *
60	79.4	228.1	292,800 *
65	78.1	226.8	292,800 *
70	76.8	225.4	292,800 *
75	75.4	223.8	292,800 *
80	74.1	222.1	292,800 *
85	72.7	220.2	289,200
90	71.3	218.2	266,900
95	69.9	216.1	247,300
100	68.5	213.8	230,100
105	67.1	211.4	214,700
110	65.7	208.8	200,900
115	64.2	206.1	188,500
120	62.7	203.2	177,300
125	61.2	200.1	167,000
130	59.7	196.8	157,700
135	58.1	193.4	149,100
140	56.5	189.7	141,100
145	54.9	185.8	133,800
150	53.2	181.6	127,000
155	51.5	177.3	120,700
160	49.8	172.6	114,800
165	48.0	167.6	109,300
170	46.1	162.4	104,100
175	44.2	156.7	99,300
180	42.2	150.6	94,700
185	40.1	144.1	90,300
190	37.8	137.1	86,200
195	35.5	129.4	82,400

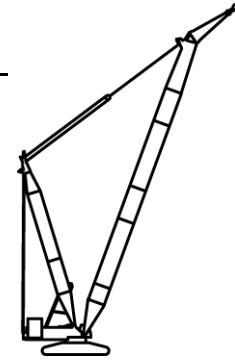
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220.0 ft Boom			
50	82.7	250.8	292,800 *
55	81.5	249.8	292,800 *
60	80.3	248.7	292,800 *
65	79.1	247.5	292,800 *
70	77.9	246.1	292,800 *
75	76.7	244.7	292,800 *
80	75.4	243.1	292,800 *
85	74.2	241.5	288,200
90	72.9	239.7	265,800
95	71.7	237.8	246,200
100	70.4	235.7	228,900
105	69.1	233.5	213,500
110	67.8	231.2	199,700
115	66.5	228.7	187,300
120	65.2	226.1	176,000
125	63.8	223.4	165,800
130	62.5	220.5	156,400
135	61.1	217.4	147,800
140	59.7	214.1	139,800
145	58.3	210.7	132,500
150	56.8	207.1	125,700
155	55.3	203.3	119,400
160	53.8	199.3	113,500
165	52.3	195.1	108,000
170	50.7	190.6	102,800
175	49.1	185.9	97,900
180	47.4	180.9	93,400
185	45.7	175.5	89,100
190	43.9	169.9	85,000
195	42.1	163.8	81,100
200	40.2	157.4	77,400
205	38.2	150.5	74,000
210	36.1	143.0	70,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240.0 ft Boom			
55	82.2	270.2	292,800 *
60	81.1	269.1	292,800 *
65	79.9	268.0	292,800 *
70	78.8	266.8	292,800 *
75	77.7	265.5	292,800 *
80	76.6	264.0	292,800 *
85	75.4	262.5	287,800
90	74.3	260.9	265,400
95	73.1	259.1	245,700
100	72.0	257.2	228,400
105	70.8	255.2	213,000
110	69.6	253.1	199,200
115	68.4	250.9	186,700
120	67.2	248.5	175,400
125	66.0	246.1	165,200
130	64.8	243.4	155,800
135	63.5	240.7	147,200
140	62.3	237.8	139,200
145	61.0	234.7	131,900
150	59.7	231.5	125,100
155	58.4	228.1	118,800
160	57.1	224.6	112,900
165	55.7	220.8	107,400
170	54.3	216.9	102,200
175	52.9	212.8	97,300
180	51.5	208.5	92,800
185	50.0	203.9	88,500
190	48.5	199.1	84,400
195	47.0	194.1	80,600
200	45.4	188.7	76,900
205	43.7	183.1	73,400
210	42.0	177.1	70,100
215	40.3	170.7	67,000
220	38.4	163.9	64,000
225	36.5	156.5	61,100

Liftcrane Boom Extended Upper Point Capacities

Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
456,000 lb Crane Counterweight
232,000 lb Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



Manitowoc
18000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260.0 ft Boom			
55	82.7	290.5	292,800 *
60	81.7	289.5	292,800 *
65	80.7	288.5	292,800 *
70	79.6	287.4	292,800 *
75	78.6	286.1	292,800 *
80	77.5	284.8	292,800 *
85	76.5	283.4	286,600
90	75.4	281.9	264,100
95	74.4	280.3	244,400
100	73.3	278.5	227,000
105	72.2	276.7	211,600
110	71.1	274.8	197,700
115	70.1	272.7	185,200
120	69.0	270.5	173,900
125	67.8	268.3	163,600
130	66.7	265.9	154,200
135	65.6	263.4	145,600
140	64.4	260.7	137,600
145	63.3	258.0	130,300
150	62.1	255.0	123,500
155	60.9	252.0	117,200
160	59.7	248.8	111,200
165	58.5	245.5	105,700
170	57.3	242.0	100,600
175	56.0	238.3	95,700
180	54.8	234.5	91,100
185	53.5	230.5	86,800
190	52.2	226.3	82,800
195	50.8	221.9	78,900
200	49.4	217.2	75,300
205	48.0	212.4	71,800
210	46.6	207.3	68,500
215	45.1	201.9	65,400
220	43.6	196.2	62,400
225	42.0	190.3	59,600
230	40.4	183.9	56,800
235	38.7	177.2	54,200
240	36.9	170.1	51,700
245	35.1	162.4	49,300

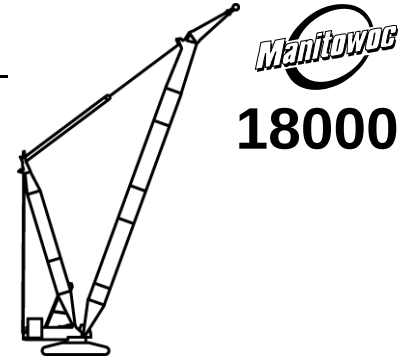
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280.0 ft Boom			
60	82.2	309.9	292,800 *
65	81.3	308.9	292,800 *
70	80.3	307.9	292,800 *
75	79.4	306.7	292,800 *
80	78.4	305.5	292,800 *
85	77.4	304.2	285,800
90	76.4	302.8	263,300
95	75.4	301.2	243,600
100	74.5	299.6	226,200
105	73.5	298.0	210,700
110	72.5	296.2	196,800
115	71.4	294.3	184,300
120	70.4	292.3	173,000
125	69.4	290.2	162,700
130	68.4	288.0	153,300
135	67.3	285.6	144,600
140	66.3	283.2	136,700
145	65.2	280.7	129,300
150	64.2	278.0	122,500
155	63.1	275.2	116,200
160	62.0	272.3	110,300
165	60.9	269.3	104,800
170	59.8	266.1	99,600
175	58.6	262.8	94,700
180	57.5	259.4	90,200
185	56.3	255.8	85,900
190	55.1	252.0	81,800
195	53.9	248.1	78,000
200	52.7	244.0	74,300
205	51.5	239.7	70,900
210	50.2	235.2	67,600
215	48.9	230.5	64,500
220	47.6	225.6	61,500
225	46.2	220.5	58,600
230	44.9	215.1	55,900
235	43.4	209.4	53,300
240	42.0	203.5	50,800
245	40.4	197.2	48,400
250	38.9	190.6	46,100
255	37.2	183.5	43,900
260	35.5	176.0	41,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
300.0 ft Boom			
60	82.7	330.2	292,800 *
65	81.8	329.3	292,800 *
70	80.9	328.3	292,800 *
75	80.0	327.2	292,800 *
80	79.1	326.1	284,700 *
85	78.2	324.8	269,600 *
90	77.3	323.5	256,100 *
95	76.4	322.1	242,200
100	75.4	320.6	224,700
105	74.5	319.0	209,200
110	73.6	317.4	195,300
115	72.6	315.6	182,700
120	71.7	313.8	171,400
125	70.8	311.8	161,000
130	69.8	309.8	151,600
135	68.8	307.6	142,900
140	67.9	305.4	135,000
145	66.9	303.0	127,600
150	65.9	300.6	120,800
155	64.9	298.0	114,400
160	63.9	295.3	108,500
165	62.9	292.5	103,000
170	61.9	289.6	97,800
175	60.8	286.6	92,900
180	59.8	283.5	88,300
185	58.7	280.2	84,000
190	57.6	276.8	80,000
195	56.6	273.2	76,100
200	55.5	269.5	72,500
205	54.3	265.6	69,000
210	53.2	261.6	65,700
215	52.0	257.5	62,600
220	50.9	253.1	59,600
225	49.7	248.6	56,800
230	48.5	243.8	54,100
235	47.2	238.9	51,500
240	45.9	233.7	49,000
245	44.6	228.3	46,600
250	43.3	222.6	44,300
255	41.9	216.7	42,100
260	40.5	210.4	40,000
265	39.0	203.9	38,000
270	37.5	196.9	36,000
275	36.0	189.6	34,100

Liftcrane Boom Extended Upper Point Capacities

Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
456,000 lb Crane Counterweight
232,000 lb Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
320.0 ft Boom			
65	82.3	349.6	292,800 *
70	81.5	348.6	291,900 *
75	80.6	347.6	286,700 *
80	79.8	346.6	270,100 *
85	78.9	345.4	255,500 *
90	78.0	344.2	242,400 *
95	77.2	342.9	230,600 *
100	76.3	341.5	220,000 *
105	75.5	340.0	208,100
110	74.6	338.4	194,200
115	73.7	336.8	181,600
120	72.8	335.0	170,200
125	71.9	333.2	159,900
130	71.0	331.3	150,400
135	70.1	329.3	141,800
140	69.2	327.2	133,800
145	68.3	325.0	126,400
150	67.4	322.8	119,600
155	66.5	320.4	113,200
160	65.6	317.9	107,300
165	64.6	315.3	101,700
170	63.7	312.6	96,600
175	62.7	309.8	91,700
180	61.7	306.9	87,100
185	60.8	303.9	82,800
190	59.8	300.8	78,700
195	58.8	297.5	74,900
200	57.8	294.1	71,300
205	56.8	290.6	67,800
210	55.7	287.0	64,500
215	54.7	283.2	61,400
220	53.6	279.2	58,400
225	52.5	275.2	55,600
230	51.5	270.9	52,900
235	50.3	266.5	50,300
240	49.2	261.9	47,800
245	48.1	257.1	45,400
250	46.9	252.1	43,100
255	45.7	246.9	41,000
260	44.4	241.5	38,800
265	43.2	235.8	36,800
270	41.9	229.9	34,900
275	40.6	223.7	33,000
280	39.2	217.2	31,200
285	37.8	210.3	29,400
290	36.3	203.1	27,700

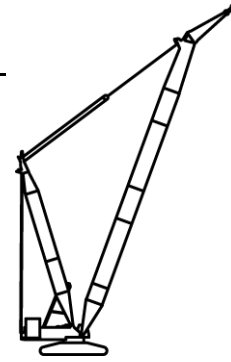
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
340.0 ft Boom			
65	82.7	369.9	254,100 *
70	81.9	369.0	253,100 *
75	81.1	368.0	252,100 *
80	80.3	367.0	251,200 *
85	79.5	365.9	242,000 *
90	78.7	364.8	229,200 *
95	77.9	363.5	217,800 *
100	77.1	362.2	207,500 *
105	76.3	360.8	198,100 *
110	75.5	359.4	189,500 *
115	74.6	357.8	179,900
120	73.8	356.2	168,500
125	73.0	354.5	158,100
130	72.1	352.7	148,700
135	71.3	350.8	140,000
140	70.4	348.8	132,000
145	69.6	346.8	124,600
150	68.7	344.7	117,700
155	67.9	342.5	111,300
160	67.0	340.1	105,400
165	66.1	337.7	99,800
170	65.2	335.2	94,600
175	64.4	332.6	89,800
180	63.5	329.9	85,200
185	62.6	327.1	80,900
190	61.7	324.2	76,800
195	60.7	321.2	73,000
200	59.8	318.1	69,300
205	58.9	314.9	65,800
210	57.9	311.5	62,600
215	57.0	308.0	59,400
220	56.0	304.4	56,500
225	55.0	300.7	53,600
230	54.0	296.8	50,900
235	53.0	292.8	48,300
240	52.0	288.7	45,800
245	50.9	284.3	43,500
250	49.9	279.9	41,200
255	48.8	275.2	39,000
260	47.7	270.4	36,900
265	46.6	265.4	34,900
270	45.4	260.1	32,900
275	44.3	254.7	31,000
280	43.1	249.0	29,200
285	41.9	243.1	27,500
290	40.6	237.0	25,800
295	39.3	230.5	24,200
300	38.0	223.7	22,600
305	36.6	216.6	21,000
310	35.2	209.1	19,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
360.0 ft Boom			
70	82.4	389.3	220,900 *
75	81.6	388.4	219,800 *
80	80.8	387.4	218,700 *
85	80.1	386.4	217,700 *
90	79.3	385.3	213,300 *
95	78.6	384.1	203,200 *
100	77.8	382.9	194,000 *
105	77.0	381.6	185,600 *
110	76.2	380.2	178,000 *
115	75.5	378.7	170,900 *
120	74.7	377.2	164,300 *
125	73.9	375.6	156,500
130	73.1	373.9	147,000
135	72.3	372.1	138,300
140	71.5	370.3	130,200
145	70.7	368.4	122,800
150	69.9	366.4	115,900
155	69.1	364.3	109,600
160	68.3	362.1	103,600
165	67.5	359.9	98,000
170	66.6	357.5	92,800
175	65.8	355.1	88,000
180	65.0	352.6	83,400
185	64.1	350.0	79,000
190	63.3	347.2	75,000
195	62.4	344.5	71,100
200	61.6	341.5	67,400
205	60.7	338.5	64,000
210	59.8	335.4	60,700
215	58.9	332.2	57,600
220	58.0	328.9	54,600
225	57.1	325.4	51,700
230	56.2	321.9	49,000
235	55.3	318.2	46,400
240	54.3	314.4	44,000
245	53.4	310.4	41,600
250	52.4	306.4	39,300
255	51.4	302.1	37,100
260	50.4	297.8	35,000
265	49.4	293.2	33,000
270	48.4	288.5	31,100
275	47.4	283.7	29,200
280	46.3	278.6	27,400
285	45.2	273.4	25,700
290	44.1	267.9	24,000
295	43.0	262.2	22,400
300	41.8	256.4	20,800
305	40.7	250.2	19,300
310	39.4	243.8	17,800
315	38.2	237.1	16,400

Liftcrane Boom Extended Upper Point Capacities

**Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
456,000 lb Crane Counterweight
232,000 lb Carbody Counterweight
360 Degree Rating**

Meets
ANSI B30.5
Requirements



18000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
380.0 ft Boom			
70	82.8	409.5	192,700 *
75	82.0	408.7	191,000 *
80	81.3	407.8	190,900 *
85	80.6	406.8	190,100 *
90	79.9	405.8	189,200 *
95	79.1	404.6	188,400 *
100	78.4	403.5	185,500 *
105	77.7	402.2	177,000 *
110	76.9	400.9	169,300 *
115	76.2	399.5	162,200 *
120	75.5	398.1	155,700 *
125	74.7	396.6	149,600 *
130	74.0	395.0	143,900 *
135	73.2	393.3	136,400
140	72.5	391.6	128,400
145	71.7	389.8	120,900
150	71.0	387.9	114,000
155	70.2	385.9	107,600
160	69.4	383.9	101,700
165	68.7	381.7	96,100
170	67.9	379.5	90,900
175	67.1	377.2	86,000
180	66.3	374.9	81,400
185	65.5	372.4	77,100
190	64.7	369.9	73,000
195	63.9	367.3	69,100
200	63.1	364.6	65,400
205	62.3	361.8	62,000
210	61.5	358.9	58,700
215	60.7	355.9	55,500
220	59.8	352.8	52,600
225	59.0	349.5	49,700
230	58.1	346.2	47,000
235	57.3	342.8	44,400
240	56.4	339.3	41,900
245	55.5	335.7	39,600
250	54.6	331.9	37,300
255	53.7	328.0	35,100
260	52.8	324.0	33,000
265	51.9	319.9	31,000
270	51.0	315.6	29,000
275	50.0	311.1	27,200
280	49.1	306.6	25,400
285	48.1	301.8	23,600
290	47.1	296.9	21,900
295	46.1	291.9	20,300
300	45.0	286.6	18,800
305	44.0	281.1	17,200
310	42.9	275.5	15,800