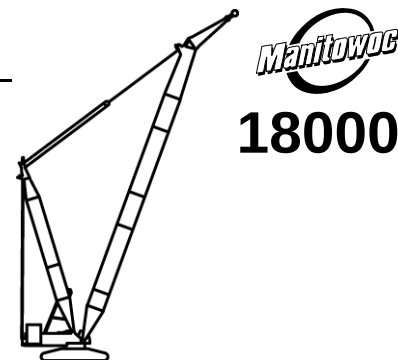


Liftcrane Boom Extended Upper Point Capacities

**Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
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 (*).

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, 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
340 ft	320 ft
Load block, hook and weight ball on ground at start.	

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

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

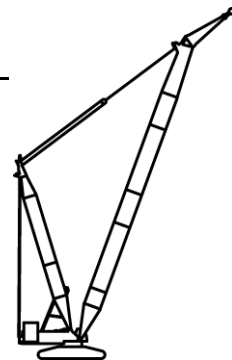
Boom Catwalks Deduct

Deduct 800 lbs from capacities
when boom catwalks are attached.

Liftcrane Boom Extended Upper Point Capacities

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360 Degree Rating

Meets
ANSI B30.5
Requirements



18000

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	268,900
85	72.7	220.2	246,400
90	71.3	218.2	227,000
95	69.9	216.1	209,900
100	68.5	213.8	194,800
105	67.1	211.4	181,400
110	65.7	208.8	169,400
115	64.2	206.1	158,500
120	62.7	203.2	148,700
125	61.2	200.1	139,800
130	59.7	196.8	131,600
135	58.1	193.4	124,100
140	56.5	189.7	117,200
145	54.9	185.8	110,700
150	53.2	181.6	104,800
155	51.5	177.3	99,300
160	49.8	172.6	94,100
165	48.0	167.6	89,300
170	46.1	162.4	84,800
175	44.2	156.7	80,500
180	42.2	150.6	76,500
185	40.1	144.1	72,700
190	37.8	137.1	69,100
195	35.5	129.4	65,700

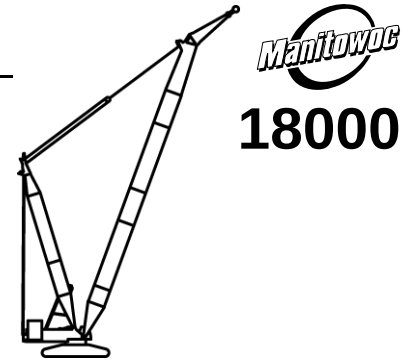
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220.0 ft Boom			
50	82.7	250.8	292,800 *
55	81.5	249.8	292,800 *
60	80.3	248.7	292,800 *
65	79.1	247.5	292,800 *
70	77.9	246.1	292,800 *
75	76.7	244.7	292,800 *
80	75.4	243.1	268,000
85	74.2	241.5	245,500
90	72.9	239.7	225,900
95	71.7	237.8	208,800
100	70.4	235.7	193,700
105	69.1	233.5	180,200
110	67.8	231.2	168,200
115	66.5	228.7	157,300
120	65.2	226.1	147,500
125	63.8	223.4	138,500
130	62.5	220.5	130,300
135	61.1	217.4	122,800
140	59.7	214.1	115,800
145	58.3	210.7	109,400
150	56.8	207.1	103,500
155	55.3	203.3	97,900
160	53.8	199.3	92,800
165	52.3	195.1	88,000
170	50.7	190.6	83,400
175	49.1	185.9	79,200
180	47.4	180.9	75,200
185	45.7	175.5	71,400
190	43.9	169.9	67,800
195	42.1	163.8	64,400
200	40.2	157.4	61,200
205	38.2	150.5	58,100
210	36.1	143.0	55,200

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	267,600
85	75.4	262.5	245,100
90	74.3	260.9	225,500
95	73.1	259.1	208,300
100	72.0	257.2	193,200
105	70.8	255.2	179,700
110	69.6	253.1	167,600
115	68.4	250.9	156,700
120	67.2	248.5	146,900
125	66.0	246.1	137,900
130	64.8	243.4	129,700
135	63.5	240.7	122,200
140	62.3	237.8	115,200
145	61.0	234.7	108,800
150	59.7	231.5	102,900
155	58.4	228.1	97,300
160	57.1	224.6	92,200
165	55.7	220.8	87,400
170	54.3	216.9	82,800
175	52.9	212.8	78,600
180	51.5	208.5	74,600
185	50.0	203.9	70,800
190	48.5	199.1	67,300
195	47.0	194.1	63,900
200	45.4	188.7	60,700
205	43.7	183.1	57,600
210	42.0	177.1	54,700
215	40.3	170.7	52,000
220	38.4	163.9	49,300
225	36.5	156.5	46,800

Liftcrane Boom Extended Upper Point Capacities

Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
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
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	266,500
85	76.5	283.4	243,800
90	75.4	281.9	224,200
95	74.4	280.3	207,000
100	73.3	278.5	191,800
105	72.2	276.7	178,300
110	71.1	274.8	166,200
115	70.1	272.7	155,300
120	69.0	270.5	145,400
125	67.8	268.3	136,400
130	66.7	265.9	128,200
135	65.6	263.4	120,600
140	64.4	260.7	113,700
145	63.3	258.0	107,200
150	62.1	255.0	101,300
155	60.9	252.0	95,700
160	59.7	248.8	90,600
165	58.5	245.5	85,700
170	57.3	242.0	81,200
175	56.0	238.3	76,900
180	54.8	234.5	72,900
185	53.5	230.5	69,200
190	52.2	226.3	65,600
195	50.8	221.9	62,200
200	49.4	217.2	59,000
205	48.0	212.4	56,000
210	46.6	207.3	53,100
215	45.1	201.9	50,400
220	43.6	196.2	47,800
225	42.0	190.3	45,200
230	40.4	183.9	42,800
235	38.7	177.2	40,500
240	36.9	170.1	38,300
245	35.1	162.4	36,200

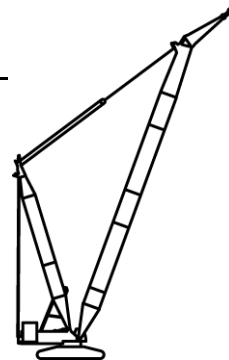
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280.0 ft Boom			
60	82.2	309.9	292,800 *
65	81.3	308.9	292,800 *
70	80.3	307.9	292,800 *
75	79.4	306.7	292,200
80	78.4	305.5	265,800
85	77.4	304.2	243,100
90	76.4	302.8	223,400
95	75.4	301.2	206,200
100	74.5	299.6	191,000
105	73.5	298.0	177,400
110	72.5	296.2	165,300
115	71.4	294.3	154,400
120	70.4	292.3	144,500
125	69.4	290.2	135,500
130	68.4	288.0	127,200
135	67.3	285.6	119,700
140	66.3	283.2	112,700
145	65.2	280.7	106,300
150	64.2	278.0	100,300
155	63.1	275.2	94,700
160	62.0	272.3	89,600
165	60.9	269.3	84,700
170	59.8	266.1	80,200
175	58.6	262.8	76,000
180	57.5	259.4	72,000
185	56.3	255.8	68,200
190	55.1	252.0	64,600
195	53.9	248.1	61,300
200	52.7	244.0	58,100
205	51.5	239.7	55,100
210	50.2	235.2	52,200
215	48.9	230.5	49,400
220	47.6	225.6	46,800
225	46.2	220.5	44,300
230	44.9	215.1	41,900
235	43.4	209.4	39,700
240	42.0	203.5	37,500
245	40.4	197.2	35,400
250	38.9	190.6	33,300
255	37.2	183.5	31,400
260	35.5	176.0	29,500

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	291,000
80	79.1	326.1	264,500
85	78.2	324.8	241,800
90	77.3	323.5	222,000
95	76.4	322.1	204,800
100	75.4	320.6	189,500
105	74.5	319.0	175,900
110	73.6	317.4	163,700
115	72.6	315.6	152,800
120	71.7	313.8	142,800
125	70.8	311.8	133,800
130	69.8	309.8	125,500
135	68.8	307.6	117,900
140	67.9	305.4	111,000
145	66.9	303.0	104,500
150	65.9	300.6	98,500
155	64.9	298.0	93,000
160	63.9	295.3	87,800
165	62.9	292.5	82,900
170	61.9	289.6	78,400
175	60.8	286.6	74,200
180	59.8	283.5	70,200
185	58.7	280.2	66,400
190	57.6	276.8	62,800
195	56.6	273.2	59,400
200	55.5	269.5	56,300
205	54.3	265.6	53,200
210	53.2	261.6	50,300
215	52.0	257.5	47,600
220	50.9	253.1	45,000
225	49.7	248.6	42,500
230	48.5	243.8	40,100
235	47.2	238.9	37,800
240	45.9	233.7	35,700
245	44.6	228.3	33,600
250	43.3	222.6	31,500
255	41.9	216.7	29,600
260	40.5	210.4	27,800
265	39.0	203.9	26,000
270	37.5	196.9	24,200
275	36.0	189.6	22,600

Liftcrane Boom Extended Upper Point Capacities

Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
384,000 lb Crane Counterweight
144,000 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
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	263,600
85	78.9	345.4	240,900
90	78.0	344.2	221,100
95	77.2	342.9	203,800
100	76.3	341.5	188,500
105	75.5	340.0	174,800
110	74.6	338.4	162,600
115	73.7	336.8	151,600
120	72.8	335.0	141,700
125	71.9	333.2	132,600
130	71.0	331.3	124,400
135	70.1	329.3	116,800
140	69.2	327.2	109,800
145	68.3	325.0	103,300
150	67.4	322.8	97,300
155	66.5	320.4	91,800
160	65.6	317.9	86,600
165	64.6	315.3	81,700
170	63.7	312.6	77,200
175	62.7	309.8	72,900
180	61.7	306.9	68,900
185	60.8	303.9	65,100
190	59.8	300.8	61,600
195	58.8	297.5	58,200
200	57.8	294.1	55,000
205	56.8	290.6	52,000
210	55.7	287.0	49,100
215	54.7	283.2	46,400
220	53.6	279.2	43,800
225	52.5	275.2	41,300
230	51.5	270.9	38,900
235	50.3	266.5	36,600
240	49.2	261.9	34,400
245	48.1	257.1	32,400
250	46.9	252.1	30,400
255	45.7	246.9	28,400
260	44.4	241.5	26,600
265	43.2	235.8	24,800
270	41.9	229.9	23,100
275	40.6	223.7	21,400
280	39.2	217.2	19,800
285	37.8	210.3	18,300
290	36.3	203.1	16,800

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	239,500
90	78.7	364.8	219,600
95	77.9	363.5	202,200
100	77.1	362.2	186,900
105	76.3	360.8	173,200
110	75.5	359.4	161,000
115	74.6	357.8	150,000
120	73.8	356.2	140,000
125	73.0	354.5	130,900
130	72.1	352.7	122,600
135	71.3	350.8	115,000
140	70.4	348.8	108,000
145	69.6	346.8	101,500
150	68.7	344.7	95,500
155	67.9	342.5	89,900
160	67.0	340.1	84,700
165	66.1	337.7	79,800
170	65.2	335.2	75,300
175	64.4	332.6	71,000
180	63.5	329.9	67,000
185	62.6	327.1	63,200
190	61.7	324.2	59,600
195	60.7	321.2	56,300
200	59.8	318.1	53,100
205	58.9	314.9	50,000
210	57.9	311.5	47,200
215	57.0	308.0	44,400
220	56.0	304.4	41,800
225	55.0	300.7	39,300
230	54.0	296.8	36,900
235	53.0	292.8	34,700
240	52.0	288.7	32,500
245	50.9	284.3	30,400
250	49.9	279.9	28,400
255	48.8	275.2	26,500
260	47.7	270.4	24,600
265	46.6	265.4	22,800
270	45.4	260.1	21,100
275	44.3	254.7	19,500
280	43.1	249.0	17,900
285	41.9	243.1	16,400