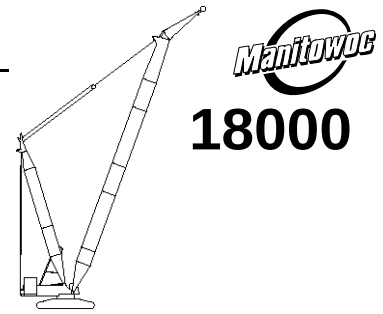


Liftcrane Boom Extended Upper Point Capacities

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

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, 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
280 ft	260 ft
Load block, hook and weight ball on ground at start.	

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

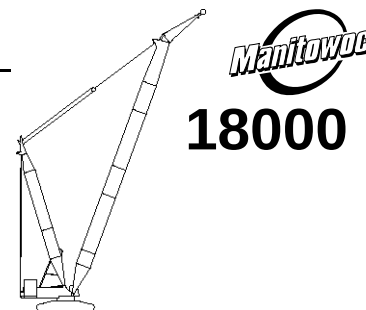
WARNING: This chart requires boom top modification No. A16449.

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

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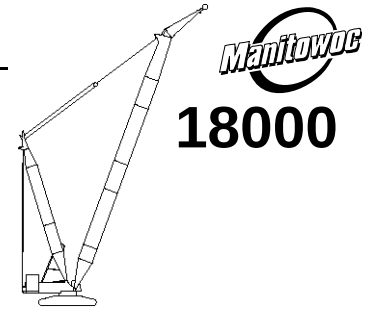
**Meets
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18000

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	282,700
70	76.8	225.4	253,000
75	75.4	223.8	228,200
80	74.1	222.1	207,200
85	72.7	220.2	189,200
90	71.3	218.2	173,500
95	69.9	216.1	159,700
100	68.5	213.8	147,600
105	67.1	211.4	136,800
110	65.7	208.8	127,100
115	64.2	206.1	118,400
120	62.7	203.2	110,400
125	61.2	200.1	103,200
130	59.7	196.8	96,600
135	58.1	193.4	90,600
140	56.5	189.7	85,000
145	54.9	185.8	79,800
150	53.2	181.6	75,000
155	51.5	177.3	70,500
160	49.8	172.6	66,400
165	48.0	167.6	62,500
170	46.1	162.4	58,800
175	44.2	156.7	55,300
180	42.2	150.6	52,100
185	40.1	144.1	49,000
190	37.8	137.1	46,100
195	35.5	129.4	43,300

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	282,100
70	77.9	246.1	252,300
75	76.7	244.7	227,400
80	75.4	243.1	206,300
85	74.2	241.5	188,200
90	72.9	239.7	172,500
95	71.7	237.8	158,700
100	70.4	235.7	146,500
105	69.1	233.5	135,600
110	67.8	231.2	125,900
115	66.5	228.7	117,100
120	65.2	226.1	109,200
125	63.8	223.4	102,000
130	62.5	220.5	95,300
135	61.1	217.4	89,300
140	59.7	214.1	83,700
145	58.3	210.7	78,500
150	56.8	207.1	73,700
155	55.3	203.3	69,200
160	53.8	199.3	65,000
165	52.3	195.1	61,100
170	50.7	190.6	57,500
175	49.1	185.9	54,000
180	47.4	180.9	50,800
185	45.7	175.5	47,700
190	43.9	169.9	44,800
195	42.1	163.8	42,100
200	40.2	157.4	39,400
205	38.2	150.5	36,900
210	36.1	143.0	34,600

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	282,000
70	78.8	266.8	252,100
75	77.7	265.5	227,100
80	76.6	264.0	205,900
85	75.4	262.5	187,800
90	74.3	260.9	172,000
95	73.1	259.1	158,200
100	72.0	257.2	146,000
105	70.8	255.2	135,100
110	69.6	253.1	125,300
115	68.4	250.9	116,600
120	67.2	248.5	108,600
125	66.0	246.1	101,400
130	64.8	243.4	94,700
135	63.5	240.7	88,700
140	62.3	237.8	83,100
145	61.0	234.7	77,900
150	59.7	231.5	73,100
155	58.4	228.1	68,600
160	57.1	224.6	64,400
165	55.7	220.8	60,500
170	54.3	216.9	56,900
175	52.9	212.8	53,400
180	51.5	208.5	50,200
185	50.0	203.9	47,100
190	48.5	199.1	44,200
195	47.0	194.1	41,500
200	45.4	188.7	38,900
205	43.7	183.1	36,400
210	42.0	177.1	34,100
215	40.3	170.7	31,800
220	38.4	163.9	29,700
225	36.5	156.5	27,600



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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
260.0 ft Boom			
55	82.7	290.5	292,800 *
60	81.7	289.5	292,800 *
65	80.7	288.5	281,100
70	79.6	287.4	251,100
75	78.6	286.1	226,100
80	77.5	284.8	204,800
85	76.5	283.4	186,600
90	75.4	281.9	170,700
95	74.4	280.3	156,800
100	73.3	278.5	144,600
105	72.2	276.7	133,700
110	71.1	274.8	123,900
115	70.1	272.7	115,100
120	69.0	270.5	107,100
125	67.8	268.3	99,800
130	66.7	265.9	93,200
135	65.6	263.4	87,100
140	64.4	260.7	81,500
145	63.3	258.0	76,300
150	62.1	255.0	71,500
155	60.9	252.0	67,000
160	59.7	248.8	62,800
165	58.5	245.5	58,900
170	57.3	242.0	55,200
175	56.0	238.3	51,800
180	54.8	234.5	48,500
185	53.5	230.5	45,500
190	52.2	226.3	42,600
195	50.8	221.9	39,900
200	49.4	217.2	37,300
205	48.0	212.4	34,800
210	46.6	207.3	32,500
215	45.1	201.9	30,200
220	43.6	196.2	28,100
225	42.0	190.3	26,100
230	40.4	183.9	24,100
235	38.7	177.2	22,200
240	36.9	170.1	20,400
245	35.1	162.4	18,700

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	280,700
70	80.3	307.9	250,600
75	79.4	306.7	225,400
80	78.4	305.5	204,100
85	77.4	304.2	185,800
90	76.4	302.8	170,000
95	75.4	301.2	156,000
100	74.5	299.6	143,800
105	73.5	298.0	132,800
110	72.5	296.2	123,000
115	71.4	294.3	114,200
120	70.4	292.3	106,200
125	69.4	290.2	98,900
130	68.4	288.0	92,300
135	67.3	285.6	86,100
140	66.3	283.2	80,500
145	65.2	280.7	75,300
150	64.2	278.0	70,500
155	63.1	275.2	66,000
160	62.0	272.3	61,800
165	60.9	269.3	57,900
170	59.8	266.1	54,200
175	58.6	262.8	50,800
180	57.5	259.4	47,600
185	56.3	255.8	44,500
190	55.1	252.0	41,600
195	53.9	248.1	38,900
200	52.7	244.0	36,300
205	51.5	239.7	33,900
210	50.2	235.2	31,500
215	48.9	230.5	29,300
220	47.6	225.6	27,200
225	46.2	220.5	25,100
230	44.9	215.1	23,200
235	43.4	209.4	21,300
240	42.0	203.5	19,600
245	40.4	197.2	17,800