

Liftcrane Boom Extended Upper Point Capacities

2250 SERIES 1

**25 Ft. Extended Upper Boom Point With 14 Ft. Strut On
Boom No. 44 With Heavy Lift Top
169,200 Lb. Counterweight
360 Degree Rating**

Meets ANSI B30.5 Requirements

LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. 8004-A**. 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 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 gantry up. Refer to boom rigging **No. 179809**, extended upper boom point assembly **No. 194251** and Counterweight Arrangement chart **No. 8026-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. Wind conditions for boom with fixed jib apply to extended upper boom point.

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. 8027-A**. Travel tables for boom lengths including all jib lengths and offset angles apply to extended upper boom point.

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.

EXTENDED UPPER BOOM POINT ELEVATION: Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 30 Ft. 9 in. crawlers, 48 in. treads, 28 Ft. retractable gantry, 12 part boom hoist reeving, boom support straps and 169,200 Lb. counterweight.

Maximum capacity on 1-1/8 in. wire rope is 30,000 Lbs. per line. Extended upper boom point wire rope whip line length of 1,325 Ft. required with 4 parts line and boom length of 230 Ft. which allows hook to touch ground. Maximum hook travel for extended upper boom point application may be restricted when whip line length exceeds 1,170 Ft. using 24-1/2 in. Dia. lagging on left rear drum or 1,270 Ft. on bare left rear drum. Refer to Wire Rope Specification chart **No. 8025-A**.

Boom Catwalks Deduct
Deduct 500 Lbs. from capacities when boom catwalks are attached.

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WITHOUT BOOM CATWALKS					
Maximum Boom Length Lifted Unassisted					
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Crawlers	
Boom Length	25 Ft. Extended Upper Boom Point	Boom Length	25 Ft. Extended Upper Boom Point	Boom Length	25 Ft. Extended Upper Boom Point
(a) 300 Ft.	—	(a) 290 Ft.	—	260 Ft.	—
290 Ft.	—	280 Ft.	—	250 Ft.	—
280 Ft.	—	270 Ft.	—	240 Ft.	—
270 Ft.	—	260 Ft.	—	230 Ft.	25 Ft.
260 Ft.	—	250 Ft.	—		
250 Ft.	—	240 Ft.	—		
240 Ft.	—	230 Ft.	25 Ft.		
230 Ft.	25 Ft.				

Load block, hook and weight ball on ground at start.
(a) Upper boom point and third line sheave assembly on boom top must be removed on 300 Ft. boom or over rear of blocked crawlers on 290 Ft. boom.

WITH BOOM CATWALKS					
Maximum Boom Length Lifted Unassisted					
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Crawlers	
Boom Length	25 Ft. Extended Upper Boom Point	Boom Length	25 Ft. Extended Upper Boom Point	Boom Length	25 Ft. Extended Upper Boom Point
(a)(b) 300 Ft.	—	(a)(b) 290 Ft.	—	260 Ft.	—
(b) 290 Ft.	—	(b) 280 Ft.	—	250 Ft.	—
280 Ft.	—	270 Ft.	—	240 Ft.	—
270 Ft.	—	260 Ft.	—	230 Ft.	25 Ft.
260 Ft.	—	250 Ft.	—		
250 Ft.	—	240 Ft.	—		
240 Ft.	—	230 Ft.	25 Ft.		
230 Ft.	25 Ft.				

Load block, hook and weight ball on ground at start.
(a) Upper boom point and third line sheave assembly on boom top must be removed on 300 Ft. boom or over rear of blocked crawlers on 290 Ft. boom. 300 Ft. boom *must* be rigged with one hoist lead line.
(b) Machine must be equipped with optional upperworks jacking cylinders.

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169,200 Lb. Counterweight
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Meets
ANSI B30.5
Requirements

130 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
45	80.1	158.5	100,000 *
50	78.1	157.1	99,700 *
55	76.2	155.6	95,000 *
60	74.3	153.8	90,800 *
65	72.3	151.9	87,000 *
70	70.3	149.8	83,600 *
75	68.2	147.4	80,500 *
80	66.2	144.9	77,100
85	64.1	142.1	70,600
90	61.9	139.0	64,900
95	59.7	135.7	59,900
100	57.4	132.1	55,400
105	55.1	128.1	51,400
110	52.6	123.9	47,800
115	50.1	119.2	44,600
120	47.5	114.1	41,600
125	44.7	108.5	38,900
130	41.8	102.2	36,400

140 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
45	80.7	168.8	100,000 *
50	78.9	167.5	100,000 *
55	77.1	166.1	97,100 *
60	75.3	164.4	92,900 *
65	73.4	162.6	89,200 *
70	71.6	160.6	85,700 *
75	69.7	158.5	82,600 *
80	67.7	156.1	76,600
85	65.8	153.5	70,100
90	63.8	150.7	64,400
95	61.8	147.6	59,300
100	59.7	144.3	54,900
105	57.6	140.8	50,900
110	55.4	136.9	47,300
115	53.1	132.7	44,000
120	50.8	128.2	41,100
125	48.4	123.3	38,400
130	45.8	117.9	35,900
135	43.1	112.0	33,600
140	40.3	105.5	31,500

150 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
50	79.5	177.8	100,000 *
55	77.8	176.5	98,900 *
60	76.1	174.9	94,900 *
65	74.4	173.3	91,100 *
70	72.7	171.4	87,700 *
75	70.9	169.4	83,700
80	69.1	167.1	76,100
85	67.3	164.7	69,600
90	65.5	162.1	63,900
95	63.6	159.3	58,900
100	61.7	156.3	54,400
105	59.7	153.0	50,400
110	57.7	149.5	46,800
115	55.7	145.7	43,600
120	53.6	141.6	40,600
125	51.4	137.2	37,900
130	49.1	132.4	35,400
135	46.8	127.2	33,100
140	44.3	121.6	31,000



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169,200 Lb. Counterweight
360 Degree Rating

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160 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
50	80.1	188.1	100,000 *
55	78.5	186.8	99,900 *
60	76.9	185.4	96,700 *
65	75.3	183.8	93,000 *
70	73.7	182.1	89,600 *
75	72.0	180.2	83,200
80	70.3	178.1	75,600
85	68.6	175.8	69,100
90	66.9	173.4	63,300
95	65.2	170.8	58,300
100	63.4	168.0	53,800
105	61.6	164.9	49,800
110	59.7	161.7	46,200
115	57.8	158.2	43,000
120	55.9	154.4	40,000
125	53.9	150.4	37,300
130	51.9	146.1	34,800
135	49.8	141.5	32,500
140	47.6	136.5	30,400
150	42.9	125.2	26,600

170 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
50	80.6	198.4	100,000 *
55	79.1	197.1	100,000 *
60	77.6	195.8	98,300 *
65	76.1	194.3	94,700 *
70	74.5	192.6	91,400 *
75	73.0	190.8	82,900
80	71.4	188.9	75,400
85	69.8	186.8	68,800
90	68.2	184.5	63,100
95	66.6	182.1	58,100
100	64.9	179.4	53,600
105	63.2	176.6	49,600
110	61.5	173.6	46,000
115	59.7	170.3	42,700
120	58.0	166.9	39,800
125	56.1	163.2	37,100
130	54.3	159.2	34,600
135	52.3	155.0	32,300
140	50.4	150.5	30,200
150	46.2	140.4	26,400
160	41.7	128.7	23,100

180 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
55	79.7	207.4	100,000 *
60	78.2	206.1	99,700 *
65	76.8	204.7	96,300 *
70	75.3	203.2	91,300
75	73.8	201.5	82,400
80	72.3	199.6	74,900
85	70.8	197.6	68,300
90	69.3	195.5	62,600
95	67.8	193.2	57,500
100	66.2	190.7	53,000
105	64.7	188.1	49,000
110	63.1	185.2	45,400
115	61.4	182.2	42,200
120	59.8	179.0	39,200
125	58.1	175.6	36,500
130	56.3	171.9	34,000
135	54.6	168.0	31,700
140	52.8	163.9	29,600
150	49.0	154.7	25,800
160	44.9	144.2	22,500
170	40.5	132.1	19,700

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25 Ft. Extended Upper Boom Point With 14 Ft. Strut On
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169,200 Lb. Counterweight
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190 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
55	80.2	217.7	100,000 *
60	78.8	216.5	100,000 *
65	77.4	215.1	97,900 *
70	76.0	213.6	90,900
75	74.6	212.0	82,000
80	73.2	210.3	74,400
85	71.8	208.4	67,800
90	70.4	206.4	62,100
95	68.9	204.2	57,000
100	67.4	201.9	52,500
105	65.9	199.4	48,500
110	64.4	196.7	44,900
115	62.9	193.9	41,700
120	61.4	190.9	38,700
125	59.8	187.7	36,000
130	58.2	184.3	33,500
135	56.5	180.7	31,200
140	54.8	176.8	29,100
150	51.4	168.4	25,300
160	47.7	158.9	22,000
170	43.7	148.0	19,100

200 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
55	80.6	227.9	100,000 *
60	79.3	226.8	100,000 *
65	78.0	225.5	99,300 *
70	76.7	224.1	90,400
75	75.3	222.5	81,500
80	74.0	220.9	73,900
85	72.6	219.1	67,300
90	71.3	217.2	61,500
95	69.9	215.1	56,500
100	68.5	212.9	52,000
105	67.1	210.5	48,000
110	65.7	208.0	44,300
115	64.2	205.4	41,100
120	62.8	202.5	38,100
125	61.3	199.5	35,400
130	59.8	196.3	32,900
135	58.2	193.0	30,600
140	56.7	189.4	28,500
150	53.5	181.6	24,700
160	50.1	172.8	21,400
170	46.5	162.9	18,500
180	42.6	151.6	16,000

210 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
55	81.0	238.1	100,000 *
60	79.8	237.0	100,000 *
65	78.5	235.8	99,800 *
70	77.2	234.5	90,100
75	76.0	233.0	81,200
80	74.7	231.4	73,600
85	73.4	229.7	67,000
90	72.1	227.9	61,200
95	70.8	225.9	56,200
100	69.5	223.8	51,700
105	68.2	221.6	47,600
110	66.8	219.2	44,000
115	65.4	216.7	40,800
120	64.1	214.0	37,800
125	62.7	211.2	35,100
130	61.2	208.2	32,600
135	59.8	205.0	30,300
140	58.3	201.6	28,200
150	55.3	194.3	24,400
160	52.2	186.2	21,100
170	48.9	177.1	18,200
180	45.4	166.8	15,700
190	41.6	155.1	13,400



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220 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
60	80.2	247.3	100,000 *
65	79.0	246.1	100,000 *
70	77.8	244.8	89,700
75	76.6	243.4	80,700
80	75.3	241.9	73,100
85	74.1	240.3	66,500
90	72.9	238.5	60,700
95	71.6	236.7	55,600
100	70.4	234.7	51,100
105	69.1	232.5	47,100
110	67.8	230.3	43,500
115	66.5	227.9	40,200
120	65.2	225.3	37,200
125	63.9	222.6	34,500
130	62.5	219.8	32,000
135	61.2	216.8	29,700
140	59.8	213.7	27,600
150	57.0	206.8	23,800
160	54.0	199.2	20,500
170	51.0	190.7	17,600
180	47.7	181.2	15,100
190	44.3	170.6	12,800
200	40.7	158.6	10,700

230 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
60	80.6	257.5	100,000 *
65	79.4	256.4	99,800
70	78.3	255.1	89,200
75	77.1	253.8	80,300
80	75.9	252.4	72,600
85	74.8	250.8	66,000
90	73.6	249.1	60,200
95	72.4	247.3	55,100
100	71.2	245.4	50,600
105	70.0	243.4	46,600
110	68.8	241.2	42,900
115	67.5	239.0	39,700
120	66.3	236.5	36,700
125	65.0	234.0	34,000
130	63.7	231.3	31,500
135	62.4	228.5	29,200
140	61.1	225.5	27,000
150	58.5	219.0	23,200
160	55.7	211.8	20,000
170	52.8	203.9	17,100
180	49.8	195.1	14,500
190	46.7	185.3	12,200
200	43.4	174.3	10,200