

Liftcrane Boom Extended Upper Point Capacities

2250 SERIES 3

25 Ft. Extended Upper Boom Point With 14 Ft. Strut On
Boom No. 44 With Heavy Lift Top
249,200 Lb. Crane Counterweight
120,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

LIFTING CAPACITIES: Chart supplements Boom Capacity chart **No. 8012-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 (*).

250 Ft. and 260 Ft. boom lengths require only the middle three sheaves to be used on lower boom point. All other sheaves must be removed from lower boom point.

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.

Boom Catwalks Deduct

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

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, 249,200 Lb. crane counterweight, two 30,000 Lb. and four 15,000 Lb. carbody counterweights.

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 1,475 Ft. required with 4 parts line and boom length of 260 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**.

Maximum Boom Length Lifted Unassisted Over Front, Side or Rear of Crawlers	
Boom Length	25 Ft. Extended Upper Boom Point
(a) 300 Ft.	—
290 Ft.	—
280 Ft.	—
270 Ft.	—
260 Ft.	25 Ft.
Load block, hook and weight ball on ground at start. (a) When equipped with boom catwalks, upper boom point cannot be used on 300 Ft. boom.	



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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	77,600 *
85	64.1	142.1	75,000 *
90	61.9	139.0	72,600 *
95	59.7	135.7	70,400 *
100	57.4	132.1	68,400 *
105	55.1	128.1	66,500 *
110	52.6	123.9	64,800 *
115	50.1	119.2	63,300 *
120	47.5	114.1	61,900 *
125	44.7	108.5	60,600 *
130	41.8	102.2	59,500 *

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	79,700 *
85	65.8	153.5	77,100 *
90	63.8	150.7	74,700 *
95	61.8	147.6	72,500 *
100	59.7	144.3	70,400 *
105	57.6	140.8	68,500 *
110	55.4	136.9	66,800 *
115	53.1	132.7	65,200 *
120	50.8	128.2	63,700 *
125	48.4	123.3	62,300 *
130	45.8	117.9	59,800 *
135	43.1	112.0	56,000 *
140	40.3	105.5	52,100 *

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	84,600 *
80	69.1	167.1	81,800 *
85	67.3	164.7	79,100 *
90	65.5	162.1	76,700 *
95	63.6	159.3	74,400 *
100	61.7	156.3	72,400 *
105	59.7	153.0	70,400 *
110	57.7	149.5	68,600 *
115	55.7	145.7	67,000 *
120	53.6	141.6	65,400 *
125	51.4	137.2	62,900 *
130	49.1	132.4	59,300 *
135	46.8	127.2	56,100 *
140	44.3	121.6	52,600 *

Liftcrane Boom Extended Upper Point Capacities

2250 SERIES 3

25 Ft. Extended Upper Boom Point With 14 Ft. Strut On
Boom No. 44 With Heavy Lift Top
249,200 Lb. Crane Counterweight
120,000 Lb. Carbody Counterweight
360 Degree Rating

Meets ANSI B30.5 Requirements

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	86,500 *
80	70.3	178.1	83,700 *
85	68.6	175.8	81,000 *
90	66.9	173.4	78,600 *
95	65.2	170.8	76,300 *
100	63.4	168.0	74,200 *
105	61.6	164.9	72,300 *
110	59.7	161.7	70,400 *
115	57.8	158.2	68,700 *
120	55.9	154.4	66,100
125	53.9	150.4	62,300
130	51.9	146.1	58,800
135	49.8	141.5	55,500
140	47.6	136.5	52,500
150	42.9	125.2	45,900 *

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	88,300 *
80	71.4	188.9	85,400 *
85	69.8	186.8	82,800 *
90	68.2	184.5	80,400 *
95	66.6	182.1	78,100 *
100	64.9	179.4	76,000 *
105	63.2	176.6	74,000 *
110	61.5	173.6	72,200 *
115	59.7	170.3	70,100
120	58.0	166.9	65,900
125	56.1	163.2	62,100
130	54.3	159.2	58,500
135	52.3	155.0	55,300
140	50.4	150.5	52,300
150	46.2	140.4	46,500 *
160	41.7	128.7	40,500 *

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	93,000 *
75	73.8	201.5	90,000 *
80	72.3	199.6	87,100 *
85	70.8	197.6	84,500 *
90	69.3	195.5	82,100 *
95	67.8	193.2	79,800 *
100	66.2	190.7	77,700 *
105	64.7	188.1	75,700 *
110	63.1	185.2	73,800 *
115	61.4	182.2	69,600
120	59.8	179.0	65,300
125	58.1	175.6	61,500
130	56.3	171.9	57,900
135	54.6	168.0	54,700
140	52.8	163.9	51,700
150	49.0	154.7	46,300
160	44.9	144.2	40,500 *
170	40.5	132.1	35,100 *



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25 Ft. Extended Upper Boom Point With 14 Ft. Strut On
Boom No. 44 With Heavy Lift Top
249,200 Lb. Crane Counterweight
120,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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	94,600 *
75	74.6	212.0	91,600 *
80	73.2	210.3	88,800 *
85	71.8	208.4	86,100 *
90	70.4	206.4	83,700 *
95	68.9	204.2	81,400 *
100	67.4	201.9	79,300 *
105	65.9	199.4	77,300 *
110	64.4	196.7	73,700
115	62.9	193.9	69,100
120	61.4	190.9	64,800
125	59.8	187.7	61,000
130	58.2	184.3	57,400
135	56.5	180.7	54,200
140	54.8	176.8	51,200
150	51.4	168.4	45,800
160	47.7	158.9	40,500 *
170	43.7	148.0	35,200 *

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	96,100 *
75	75.3	222.5	93,100 *
80	74.0	220.9	90,300 *
85	72.6	219.1	87,700 *
90	71.3	217.2	85,200 *
95	69.9	215.1	83,000 *
100	68.5	212.9	80,800 *
105	67.1	210.5	78,300
110	65.7	208.0	73,100
115	64.2	205.4	68,500
120	62.8	202.5	64,200
125	61.3	199.5	60,400
130	59.8	196.3	56,800
135	58.2	193.0	53,600
140	56.7	189.4	50,600
150	53.5	181.6	45,200
160	50.1	172.8	40,300 *
170	46.5	162.9	35,000 *
180	42.6	151.6	30,300 *

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	97,500 *
75	76.0	233.0	94,500 *
80	74.7	231.4	91,700 *
85	73.4	229.7	89,100 *
90	72.1	227.9	86,700 *
95	70.8	225.9	84,400 *
100	69.5	223.8	82,300 *
105	68.2	221.6	78,000
110	66.8	219.2	72,800
115	65.4	216.7	68,200
120	64.1	214.0	63,900
125	62.7	211.2	60,100
130	61.2	208.2	56,500
135	59.8	205.0	53,300
140	58.3	201.6	50,300
150	55.3	194.3	44,900
160	52.2	186.2	40,200
170	48.9	177.1	35,200 *
180	45.4	166.8	30,500 *
190	41.6	155.1	26,300 *

Liftcrane Boom Extended Upper Point Capacities

2250 SERIES 3

25 Ft. Extended Upper Boom Point With 14 Ft. Strut On
Boom No. 44 With Heavy Lift Top
249,200 Lb. Crane Counterweight
120,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
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Requirements

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	98,800 *
75	76.6	243.4	95,800 *
80	75.3	241.9	93,100 *
85	74.1	240.3	90,500 *
90	72.9	238.5	88,100 *
95	71.6	236.7	85,900 *
100	70.4	234.7	83,200
105	69.1	232.5	77,400
110	67.8	230.3	72,200
115	66.5	227.9	67,600
120	65.2	225.3	63,300
125	63.9	222.6	59,500
130	62.5	219.8	55,900
135	61.2	216.8	52,700
140	59.8	213.7	49,700
150	57.0	206.8	44,300
160	54.0	199.2	39,600
170	51.0	190.7	34,900 *
180	47.7	181.2	30,200 *
190	44.3	170.6	26,000 *
200	40.7	158.6	22,200 *

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	100,000 *
70	78.3	255.1	99,700 *
75	77.1	253.8	97,100 *
80	75.9	252.4	94,400 *
85	74.8	250.8	91,900 *
90	73.6	249.1	89,500 *
95	72.4	247.3	87,200 *
100	71.2	245.4	82,600
105	70.0	243.4	76,900
110	68.8	241.2	71,700
115	67.5	239.0	67,100
120	66.3	236.5	62,800
125	65.0	234.0	58,900
130	63.7	231.3	55,400
135	62.4	228.5	52,100
140	61.1	225.5	49,100
150	58.5	219.0	43,700
160	55.7	211.8	39,100
170	52.8	203.9	34,700 *
180	49.8	195.1	30,000 *
190	46.7	185.3	25,800 *
200	43.4	174.3	22,000 *

240 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	80.9	267.7	100,000 *
65	79.8	266.6	100,000 *
70	78.7	265.4	99,900 *
75	77.6	264.2	98,300 *
80	76.5	262.8	95,700 *
85	75.4	261.3	93,100 *
90	74.2	259.7	90,700 *
95	73.1	258.0	88,500 *
100	71.9	256.1	82,100
105	70.8	254.2	76,300
110	69.6	252.1	71,100
115	68.4	249.9	66,500
120	67.2	247.6	62,200
125	66.0	245.2	58,300
130	64.8	242.6	54,800
135	63.6	239.9	51,500
140	62.4	237.1	48,500
150	59.8	231.0	43,100
160	57.2	224.2	38,400
170	54.5	216.8	34,300 *
180	51.7	208.5	29,600 *
190	48.8	199.4	25,400 *
200	45.7	189.3	21,600 *
210	42.5	178.0	18,100 *

Liftcrane Boom Extended Upper Point Capacities

2250 SERIES 3

25 Ft. Extended Upper Boom Point With 14 Ft. Strut On
Boom No. 44 With Heavy Lift Top
249,200 Lb. Crane Counterweight
120,000 Lb. Carbody Counterweight
360 Degree Rating

Meets ANSI B30.5 Requirements

250 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
65	80.2	276.9	100,000 *
70	79.1	275.7	100,000 *
75	78.1	274.5	99,500 *
80	77.0	273.2	96,800 *
85	75.9	271.7	94,300 *
90	74.8	270.2	92,000 *
95	73.7	268.5	88,500 *
100	72.6	266.8	82,600
105	71.5	264.9	76,900
110	70.4	262.9	71,700
115	69.3	260.9	67,000
120	68.1	258.7	62,800
125	67.0	256.3	58,900
130	65.8	253.9	55,400
135	64.6	251.3	52,100
140	63.5	248.6	49,100
150	61.1	242.8	43,700
160	58.6	236.4	39,100
170	56.0	229.3	35,000
180	53.4	221.6	30,900 *
190	50.7	213.0	26,700 *
200	47.8	203.6	22,900 *
210	44.8	193.2	19,500 *
220	41.6	181.6	16,400 *

260 Ft. Boom

Ext. Upper Boom Pt. Oper. Rad. Feet	Boom Ang. Deg.	Ext. Upper Boom Point Elev. Feet	Extended Upper Boom Point Capacity Pounds
65	80.6	287.1	99,300 *
70	79.5	286.0	97,900 *
75	78.5	284.8	96,600 *
80	77.5	283.5	95,300 *
85	76.4	282.1	94,200 *
90	75.4	280.6	93,000 *
95	74.3	279.1	86,800 *
100	73.3	277.4	81,200 *
105	72.2	275.6	76,100 *
110	71.1	273.7	71,200
115	70.0	271.7	66,500
120	68.9	269.6	62,200
125	67.8	267.4	58,300
130	66.7	265.0	54,800
135	65.6	262.5	51,500
140	64.5	260.0	48,500
150	62.2	254.4	43,100
160	59.8	248.3	38,500
170	57.4	241.6	34,400
180	54.9	234.3	30,500 *
190	52.3	226.3	26,200 *
200	49.7	217.4	22,400 *
210	46.9	207.7	19,000 *
220	43.9	197.0	15,900 *
230	40.8	185.1	13,100 *