

Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
63,300 Lb. Crane Counterweight
14,000 Lb. Crawler Frame Counterweight
22 Ft. 4 in. Crawlers Extended
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

Meets
ANSI B30.5
Requirements

222 SERIES B 222EX SERIES B

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 over front of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 20,000 Lbs. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom 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 and front tumbler properly blocked so that centerline of idler tumbler becomes tipping fulcrum. Travel drive must be to rear of machine. Swing limited to that sector shown on Operating Range Diagram **No. 9184-A**. Refer to boom rigging **No. 193744** or **No. 910557** and Wire Rope Specification chart **No. 9071-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

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: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 22 Ft. 4 in. extendible crawlers, 36 in. treads, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants, 1st crane counterweight = 28,500 Lbs., 2nd crane counterweight = 10,000 Lbs., 3rd crane counterweight = 24,800 Lbs. and four 3,500 Lb. crawler frame counterweights.

Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 10
30 Ft.	1,700 Lbs.
40 Ft.	2,100 Lbs.
50 Ft.	2,600 Lbs.
60 Ft.	3,100 Lbs.

Maximum Boom and Jib Lengths Lifted Unassisted Over Front of Blocked Crawlers

Boom Length	Jib No. 10
200 Ft.	—
190 Ft.	60 Ft.
Load block, hook and weight ball on ground at start.	

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
40 Ft. Boom			
10	80.7	44.9	200,000 *
11	79.2	44.7	200,000 *
12	77.8	44.5	185,300 *
13	76.3	44.2	171,100 *
14	74.8	44.0	158,800 *
15	73.3	43.7	148,200 *
16	71.8	43.3	139,000 *
17	70.3	43.0	130,800 *
18	68.8	42.6	121,600 *
19	67.2	42.2	114,100 *
20	65.6	41.7	106,500 *
22	62.4	40.7	94,700 *
24	59.1	39.6	84,000 *
26	55.7	38.3	75,300 *
28	52.1	36.8	67,800 *
30	48.4	35.1	61,200 *
32	44.4	33.2	55,900 *
34	40.1	30.9	50,200 *
36	35.4	28.3	44,900 *
38	30.0	25.1	39,900 *
40	23.5	21.1	35,400 *
50 Ft. Boom			
11	81.4	54.8	197,200 *
12	80.2	54.7	185,200 *
13	79.1	54.5	170,900 *
14	77.9	54.3	158,700 *
15	76.7	54.0	148,100 *
16	75.5	53.8	138,200 *
17	74.4	53.5	127,900 *
18	73.2	53.2	119,100 *
19	72.0	52.9	112,300 *
20	70.7	52.5	105,400 *
22	68.3	51.8	94,600 *
24	65.8	50.9	85,800 *
26	63.2	49.9	75,500 *
28	60.6	48.8	68,600 *
30	58.0	47.6	62,700 *
32	55.2	46.3	57,700 *
34	52.3	44.8	53,400 *
36	49.4	43.2	49,600 *
38	46.3	41.3	46,200 *
40	43.0	39.3	43,200 *
45	33.6	32.8	35,400 *
50	20.9	23.0	27,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
60 Ft. Boom			
12	81.9	64.8	173,800 *
13	80.9	64.6	169,900 *
14	79.9	64.5	155,900 *
15	79.0	64.3	142,600 *
16	78.0	64.1	132,600 *
17	77.0	63.8	122,900 *
18	76.0	63.6	115,700 *
19	75.0	63.3	108,300 *
20	74.1	63.0	101,800 *
22	72.1	62.4	91,800 *
24	70.0	61.7	82,800 *
26	68.0	60.9	76,400 *
28	65.9	60.1	69,500 *
30	63.8	59.1	63,500 *
32	61.6	58.1	58,400 *
34	59.4	56.9	54,000 *
36	57.2	55.7	50,200 *
38	54.9	54.3	46,800 *
40	52.5	52.8	43,800 *
45	46.1	48.5	37,500 *
50	39.0	43.0	32,600 *
55	30.6	35.7	27,200 *
60	19.0	24.7	21,400 *
70 Ft. Boom			
14	81.4	74.6	149,900 *
15	80.6	74.4	138,400 *
16	79.7	74.3	127,500 *
17	78.9	74.1	118,700 *
18	78.1	73.9	111,400 *
19	77.2	73.6	104,400 *
20	76.4	73.4	98,900 *
22	74.7	72.9	88,700 *
24	73.0	72.3	80,100 *
26	71.3	71.6	74,000 *
28	69.5	70.9	68,700 *
30	67.8	70.1	63,600 *
32	66.0	69.2	59,100 *
34	64.2	68.3	54,900 *
36	62.3	67.3	51,000 *
38	60.5	66.2	47,500 *
40	58.6	65.0	44,400 *
45	53.6	61.6	38,100 *
50	48.3	57.5	33,100 *
55	42.5	52.5	29,100 *
60	36.0	46.3	25,800 *
65	28.3	38.3	21,700 *
70	17.6	26.3	17,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. Boom			
15	81.8	84.6	133,500 *
16	81.0	84.4	122,900 *
17	80.3	84.2	115,200 *
18	79.6	84.1	107,400 *
19	78.8	83.9	100,600 *
20	78.1	83.7	95,800 *
22	76.6	83.2	85,500 *
24	75.2	82.7	78,400 *
26	73.7	82.1	71,400 *
28	72.2	81.5	65,600 *
30	70.7	80.8	60,600 *
32	69.1	80.1	57,700 *
34	67.6	79.3	54,000 *
36	66.0	78.4	50,600 *
38	64.4	77.5	47,600 *
40	62.8	76.5	44,900 *
45	58.7	73.7	38,400 *
50	54.4	70.3	33,400 *
55	49.9	66.4	29,300 *
60	45.0	61.8	26,000 *
65	39.6	56.2	23,300 *
70	33.6	49.4	20,800 *
75	26.4	40.7	18,000 *
80	16.4	27.7	14,500 *
90 Ft. Boom			
17	81.4	94.4	111,700 *
18	80.7	94.2	104,000 *
19	80.1	94.1	98,700 *
20	79.5	93.9	92,700 *
22	78.2	93.5	82,700 *
24	76.8	93.0	75,900 *
26	75.5	92.5	69,200 *
28	74.2	92.0	63,500 *
30	72.9	91.4	59,200 *
32	71.5	90.7	56,100 *
34	70.2	90.0	52,500 *
36	68.8	89.2	49,300 *
38	67.5	88.4	46,400 *
40	66.1	87.6	43,800 *
45	62.5	85.1	38,400 *
50	58.9	82.3	33,600 *
55	55.1	79.0	29,500 *
60	51.1	75.2	26,200 *
65	46.8	70.8	23,400 *
70	42.3	65.7	21,000 *
75	37.3	59.7	19,000 *
80	31.6	52.3	17,000 *
85	24.8	42.9	14,800 *
90	15.5	29.1	12,000 *



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ANSI B30.5
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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. Boom			
18	81.7	104.3	101,100 *
19	81.1	104.2	95,900 *
20	80.5	104.0	90,100 *
22	79.4	103.7	80,300 *
24	78.2	103.3	73,700 *
26	77.0	102.8	67,100 *
28	75.8	102.3	61,600 *
30	74.6	101.8	58,100 *
32	73.5	101.2	53,900 *
34	72.3	100.6	50,300 *
36	71.0	99.9	47,100 *
38	69.8	99.2	45,500 *
40	68.6	98.4	43,000 *
45	65.5	96.3	37,700 *
50	62.3	93.8	33,500 *
55	59.0	91.0	29,700 *
60	55.6	87.7	26,400 *
65	52.0	84.1	23,500 *
70	48.3	79.8	21,200 *
75	44.3	75.0	19,100 *
80	40.0	69.5	17,300 *
85	35.3	62.9	15,800 *
90	29.9	55.0	14,200 *
95	23.5	45.0	12,200 *
100	14.7	30.4	10,000 *
110 Ft. Boom			
19	81.9	114.3	93,500 *
20	81.4	114.2	87,800 *
22	80.3	113.8	78,800 *
24	79.3	113.5	71,700 *
26	78.2	113.1	65,200 *
28	77.1	112.6	59,800 *
30	76.1	112.1	56,400 *
32	75.0	111.6	52,300 *
34	73.9	111.0	48,800 *
36	72.8	110.4	45,700 *
38	71.7	109.8	43,000 *
40	70.6	109.1	40,500 *
45	67.8	107.2	36,700 *
50	65.0	105.0	32,600 *
55	62.1	102.5	29,200 *
60	59.1	99.6	26,400 *
65	56.0	96.4	23,500 *
70	52.8	92.8	21,100 *
75	49.4	88.8	19,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. Boom			
80	45.9	84.2	17,300 *
85	42.1	79.0	15,800 *
90	38.1	73.0	14,400 *
95	33.6	66.0	13,200 *
100	28.5	57.6	11,700 *
105	22.4	47.0	10,100 *
110	14.0	31.7	8,300 *
120 Ft. Boom			
22	81.1	124.0	77,500 *
24	80.2	123.6	69,700 *
26	79.2	123.3	63,300 *
28	78.2	122.9	59,000 *
30	77.3	122.4	54,700 *
32	76.3	121.9	50,700 *
34	75.3	121.4	47,200 *
36	74.3	120.9	44,200 *
38	73.3	120.3	41,500 *
40	72.3	119.7	39,300 *
45	69.8	117.9	35,900 *
50	67.2	115.9	31,900 *
55	64.6	113.7	28,600 *
60	61.9	111.1	25,800 *
65	59.2	108.3	23,400 *
70	56.3	105.1	21,100 *
75	53.4	101.6	19,000 *
80	50.4	97.6	17,200 *
85	47.2	93.2	15,700 *
90	43.8	88.3	14,300 *
95	40.2	82.7	13,000 *
100	36.4	76.3	11,900 *
105	32.1	68.9	10,800 *
110	27.3	60.1	9,600 *
115	21.4	49.0	8,300 *
120	13.4	32.8	6,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. Boom			
22	81.8	134.1	75,700 *
24	80.9	133.8	68,000 *
26	80.0	133.4	61,800 *
28	79.1	133.1	57,800 *
30	78.2	132.6	53,300 *
32	77.3	132.2	49,300 *
34	76.4	131.7	45,900 *
36	75.5	131.2	43,000 *
38	74.6	130.7	40,300 *
40	73.7	130.1	39,200 *
45	71.4	128.5	34,100 *
50	69.0	126.7	31,000 *
55	66.7	124.7	27,800 *
60	64.2	122.4	25,100 *
65	61.8	119.8	22,800 *
70	59.2	117.0	20,800 *
75	56.6	113.8	18,900 *
80	53.9	110.3	17,100 *
85	51.1	106.5	15,500 *
90	48.3	102.2	14,200 *
95	45.2	97.5	12,900 *
100	42.0	92.2	11,800 *
105	38.6	86.3	10,800 *
110	34.9	79.5	9,900 *
115	30.8	71.7	8,900 *
120	26.2	62.5	7,900 *
125	20.6	50.8	6,800 *
130	12.8	34.0	5,400 *

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. Boom			
24	81.6	143.9	65,400 *
26	80.8	143.6	60,400 *
28	79.9	143.2	56,500 *
30	79.1	142.9	52,000 *
32	78.3	142.4	48,100 *
34	77.4	142.0	44,700 *
36	76.6	141.6	41,800 *
38	75.7	141.1	39,200 *
40	74.9	140.5	38,100 *
45	72.8	139.1	33,100 *
50	70.6	137.4	29,100 *
55	68.4	135.5	26,000 *
60	66.2	133.4	24,400 *
65	63.9	131.1	22,200 *
70	61.6	128.5	20,300 *
75	59.3	125.6	18,600 *
80	56.9	122.5	17,000 *
85	54.4	119.1	15,500 *
90	51.8	115.3	14,100 *
95	49.2	111.1	12,800 *
100	46.4	106.6	11,700 *
105	43.5	101.5	10,700 *
110	40.4	95.9	9,900 *
115	37.1	89.7	9,000 *
120	33.6	82.6	8,100 *
125	29.7	74.4	7,300 *
130	25.2	64.7	6,400 *
135	19.8	52.6	5,400 *
140	12.4	35.1	4,300 *
150 Ft. Boom			
26	81.4	153.7	55,600 *
28	80.6	153.4	55,300 *
30	79.8	153.0	50,800 *
32	79.1	152.7	46,900 *
34	78.3	152.2	43,600 *
36	77.5	151.8	40,700 *
38	76.7	151.4	39,100 *
40	75.9	150.9	37,100 *
45	73.9	149.5	32,100 *
50	71.9	148.0	28,200 *
55	69.9	146.2	25,100 *
60	67.9	144.3	22,500 *
65	65.8	142.1	20,400 *
70	63.7	139.7	19,800 *
75	61.5	137.1	18,200 *
80	59.3	134.3	16,700 *
85	57.1	131.2	15,400 *
90	54.8	127.8	14,000 *
95	52.4	124.1	12,700 *
100	49.9	120.0	11,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. Boom			
105	47.4	115.6	10,600 *
110	44.7	110.7	9,700 *
115	41.9	105.4	8,900 *
120	39.0	99.5	8,100 *
125	35.8	93.0	7,300 *
130	32.4	85.5	6,600 *
135	28.6	77.0	5,800 *
140	24.3	66.9	5,100 *
145	19.1	54.3	4,300 *
150	11.9	36.1	3,300 *
160 Ft. Boom			
26	81.9	163.8	47,900 *
28	81.2	163.5	47,500 *
30	80.5	163.2	46,700 *
32	79.7	162.8	45,700 *
34	79.0	162.4	42,400 *
36	78.3	162.1	39,600 *
38	77.6	161.6	38,300 *
40	76.8	161.2	36,000 *
45	75.0	159.9	31,100 *
50	73.1	158.4	27,200 *
55	71.2	156.8	24,200 *
60	69.3	155.0	21,600 *
65	67.4	153.0	19,500 *
70	65.4	150.8	19,100 *
75	63.5	148.4	17,500 *
80	61.4	145.8	16,100 *
85	59.4	142.9	14,800 *
90	57.3	139.8	13,600 *
95	55.1	136.5	12,500 *
100	52.9	132.8	11,400 *
105	50.6	128.9	10,100 *
110	48.2	124.6	9,200 *
115	45.8	119.9	8,500 *
120	43.2	114.8	7,700 *
125	40.5	109.2	7,000 *
130	37.7	103.0	6,400 *
135	34.6	96.1	5,700 *
140	31.3	88.4	5,100 *
145	27.7	79.5	4,500 *
150	23.5	69.0	3,800 *
155	18.5	55.9	3,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. Boom			
28	81.7	173.6	40,400 *
30	81.0	173.3	39,700 *
32	80.4	173.0	39,300 *
34	79.7	172.6	38,700 *
36	79.0	172.2	38,200 *
38	78.3	171.9	37,400 *
40	77.6	171.4	35,000 *
45	75.9	170.2	30,200 *
50	74.1	168.9	26,400 *
55	72.4	167.4	23,400 *
60	70.6	165.7	20,900 *
65	68.8	163.8	19,400 *
70	67.0	161.8	18,000 *
75	65.1	159.5	16,300 *
80	63.3	157.1	14,900 *
85	61.3	154.5	13,600 *
90	59.4	151.6	12,400 *
95	57.4	148.5	11,400 *
100	55.4	145.2	10,500 *
105	53.3	141.6	9,600 *
110	51.2	137.7	8,800 *
115	49.0	133.5	8,100 *
120	46.7	128.9	7,400 *
125	44.3	124.0	6,800 *
130	41.9	118.7	6,100 *
135	39.3	112.8	5,600 *
140	36.5	106.3	5,000 *
145	33.6	99.2	4,500 *
150	30.4	91.1	3,900 *
155	26.9	81.9	3,400 *



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. Boom			
30	81.5	183.4	34,500 *
32	80.9	183.1	33,900 *
34	80.3	182.8	33,300 *
36	79.6	182.4	32,900 *
38	79.0	182.1	32,400 *
40	78.3	181.6	32,000 *
45	76.7	180.5	29,400 *
50	75.0	179.2	25,600 *
55	73.4	177.8	22,700 *
60	71.7	176.2	20,200 *
65	70.0	174.5	19,300 *
70	68.3	172.6	17,300 *
75	66.6	170.5	15,700 *
80	64.8	168.2	14,300 *
85	63.1	165.8	13,000 *
90	61.3	163.1	11,900 *
95	59.4	160.3	10,900 *
100	57.6	157.2	10,000 *
105	55.7	153.9	9,100 *
110	53.7	150.3	8,400 *
115	51.7	146.5	7,700 *
120	49.6	142.4	7,000 *
125	47.5	138.0	6,400 *
130	45.3	133.2	5,800 *
135	43.0	128.0	5,300 *
140	40.6	122.4	4,800 *
145	38.1	116.3	4,300 *
150	35.5	109.6	3,800 *
155	32.6	102.1	3,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. Boom			
30	82.0	193.6	29,900 *
32	81.4	193.2	29,300 *
34	80.8	192.9	28,800 *
36	80.2	192.6	28,300 *
38	79.5	192.2	28,300 *
40	78.9	191.9	27,200 *
45	77.4	190.8	26,100 *
50	75.8	189.6	24,900 *
55	74.3	188.2	21,900 *
60	72.7	186.7	19,500 *
65	71.1	185.1	18,600 *
70	69.5	183.3	16,700 *
75	67.9	181.4	15,100 *
80	66.3	179.2	13,700 *
85	64.6	176.9	12,400 *
90	62.9	174.4	11,300 *
95	61.2	171.8	10,300 *
100	59.5	168.9	9,500 *
105	57.7	165.9	8,600 *
110	55.9	162.6	7,900 *
115	54.1	159.1	7,200 *
120	52.2	155.3	6,600 *
125	50.2	151.2	6,000 *
130	48.2	146.9	5,500 *
135	46.2	142.3	4,900 *
140	44.0	137.3	4,400 *
145	41.8	131.9	4,000 *
150	39.5	126.0	3,500 *
155	37.1	119.7	3,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. Boom			
32	81.8	203.4	24,900 *
34	81.2	203.1	24,900 *
36	80.7	202.7	24,100 *
38	80.1	202.4	24,100 *
40	79.5	202.0	23,300 *
45	78.0	201.0	22,300 *
50	76.6	199.9	21,500 *
55	75.1	198.6	20,800 *
60	73.6	197.2	19,300 *
65	72.1	195.7	17,800 *
70	70.6	194.0	15,900 *
75	69.1	192.1	14,300 *
80	67.5	190.1	12,900 *
85	66.0	187.9	11,700 *
90	64.4	185.6	10,600 *
95	62.8	183.1	9,700 *
100	61.1	180.4	8,800 *
105	59.5	177.6	8,000 *
110	57.8	174.5	7,300 *
115	56.1	171.3	6,600 *
120	54.4	167.8	6,000 *
125	52.6	164.1	5,500 *
130	50.7	160.1	4,900 *
135	48.9	155.9	4,400 *
140	46.9	151.3	4,000 *
145	44.9	146.5	3,500 *
150	42.9	141.2	3,100 *