

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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 (*).

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Weight of luffing jib and 2,825 Lbs. suspended beneath luffing jib point sheaves have been included in capacity determination. 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. During operation, luffing jib must be maintained at proper boom to luffing jib angle shown in table. Refer to luffing jib assembly **No. 179420**, Wire Rope Specification chart **No. 7985-A** and Luffing Jib Raising Procedure chart **No. 7986-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. 7987-A**.

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 24 Ft. 9 in. crawlers, 38 in. or 48 in. treads, two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants, 7 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants, two 1-3/8 in. luffing jib backstays, 142,000 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

Luffing Jib Position During Operation	
Luffing Jib length - Feet	Boom To Luffing Jib Angle
70	145 Degrees
80 - 90	150 Degrees
100 - 120	160 Degrees
130 - 170	168 Degrees

Consult Chart **No. 7981-A** for luffing jib capacities.



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142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

70 Ft. Luffing Jib, Attached at 145 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	283,600 *
15	81.8	76.6	274,000 *
16	81.0	76.5	264,500 *
17	80.2	76.3	247,900 *
18	79.3	76.1	232,900 *
19	78.5	75.9	219,500 *
20	77.7	75.6	207,300 *
22	76.0	75.1	186,000 *
24	74.3	74.5	168,000 *
26	72.6	73.9	152,700 *
28	70.8	73.2	139,500 *
30	69.1	72.4	127,900 *
32	67.3	71.5	117,700 *
34	65.5	70.6	107,700 *
36	63.6	69.6	97,500 *
38	61.8	68.5	88,700 *
40	59.9	67.3	81,000 *
45	54.9	64.0	65,400 *
50	49.7	59.9	53,700 *
55	43.9	55.0	44,500 *
60	37.5	48.9	37,100 *
80 Ft. BOOM			
15	82.9	86.8	248,700 *
16	82.1	86.6	240,700 *
17	81.4	86.4	232,900 *
18	80.7	86.3	225,800 *
19	80.0	86.1	219,100 *
20	79.2	85.9	207,900 *
22	77.8	85.4	186,600 *
24	76.3	84.9	168,700 *
26	74.8	84.4	153,300 *
28	73.3	83.8	140,100 *
30	71.8	83.1	128,500 *
32	70.3	82.3	118,400 *
34	68.7	81.6	109,000 *
36	67.2	80.7	98,700 *
38	65.6	79.8	89,800 *
40	64.0	78.8	82,100 *
45	59.9	76.0	66,500 *
50	55.6	72.7	54,600 *
55	51.1	68.8	45,300 *
60	46.2	64.2	37,900 *
65	40.9	58.8	31,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	230,800 *
17	82.4	96.6	223,800 *
18	81.7	96.4	217,100 *
19	81.1	96.2	210,600 *
20	80.4	96.1	204,600 *
22	79.1	95.7	186,900 *
24	77.8	95.2	169,000 *
26	76.5	94.7	153,700 *
28	75.2	94.2	140,500 *
30	73.9	93.6	128,900 *
32	72.5	93.0	118,800 *
34	71.2	92.3	109,700 *
36	69.8	91.5	99,500 *
38	68.5	90.7	90,600 *
40	67.1	89.9	82,800 *
45	63.6	87.5	67,200 *
50	59.9	84.7	55,300 *
55	56.1	81.4	46,000 *
60	52.1	77.7	38,500 *
65	47.9	73.3	32,400 *
70	43.4	68.2	27,200 *
75	38.4	62.3	22,900 *
100 Ft. BOOM			
18	82.6	106.5	196,900 *
19	82.0	106.4	191,300 *
20	81.4	106.2	185,900 *
22	80.2	105.9	175,900 *
24	79.1	105.5	166,600 *
26	77.9	105.0	152,700 *
28	76.7	104.5	139,900 *
30	75.5	104.0	129,000 *
32	74.4	103.4	118,900 *
34	73.2	102.8	109,900 *
36	71.9	102.2	100,100 *
38	70.7	101.5	91,200 *
40	69.5	100.7	83,400 *
45	66.4	98.6	67,700 *
50	63.2	96.1	55,800 *
55	59.9	93.3	46,400 *
60	56.5	90.1	38,900 *
65	53.0	86.4	32,700 *
70	49.2	82.3	27,500 *
75	45.3	77.5	23,200 *
80	41.0	72.0	19,400 *
85	36.3	65.5	16,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	187,300 *
20	82.2	116.3	181,700 *
22	81.1	116.0	171,400 *
24	80.1	115.7	161,900 *
26	79.0	115.3	153,100 *
28	78.0	114.8	140,400 *
30	76.9	114.4	128,900 *
32	75.8	113.8	118,800 *
34	74.7	113.3	109,800 *
36	73.6	112.7	100,200 *
38	72.5	112.0	91,300 *
40	71.4	111.4	83,500 *
45	68.7	109.5	67,800 *
50	65.8	107.3	55,900 *
55	62.9	104.8	46,600 *
60	59.9	102.0	39,100 *
65	56.8	98.8	32,900 *
70	53.6	95.2	27,700 *
75	50.3	91.2	23,400 *
80	46.8	86.6	19,600 *
85	43.0	81.5	16,300 *
90	39.0	75.6	13,500 *
120 Ft. BOOM			
20	82.9	126.4	170,400 *
22	81.9	126.2	161,700 *
24	80.9	125.8	153,700 *
26	79.9	125.5	146,200 *
28	79.0	125.1	138,000 *
30	78.0	124.6	126,800 *
32	77.0	124.2	117,100 *
34	76.0	123.6	108,700 *
36	75.0	123.1	100,700 *
38	74.0	122.5	91,800 *
40	73.0	121.9	84,000 *
45	70.5	120.2	68,200 *
50	68.0	118.2	56,300 *
55	65.3	116.0	47,000 *
60	62.7	113.5	39,400 *
65	59.9	110.6	33,200 *
70	57.1	107.5	28,100 *
75	54.2	104.0	23,700 *
80	51.2	100.0	19,900 *
85	48.0	95.7	16,600 *
90	44.6	90.8	13,700 *
95	41.1	85.2	11,200 *

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142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

70 Ft. Luffing Jib, Attached at 145 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	153,900 *
24	81.6	136.0	146,000 *
26	80.7	135.6	138,600 *
28	79.8	135.3	131,800 *
30	78.9	134.9	123,900 *
32	78.0	134.4	114,400 *
34	77.1	134.0	106,000 *
36	76.2	133.5	98,600 *
38	75.3	132.9	92,100 *
40	74.4	132.4	84,200 *
45	72.1	130.8	68,500 *
50	69.7	129.0	56,500 *
55	67.4	127.0	47,100 *
60	64.9	124.7	39,600 *
65	62.5	122.1	33,400 *
70	59.9	119.3	28,200 *
75	57.3	116.2	23,800 *
80	54.7	112.7	20,000 *
85	51.9	108.9	16,700 *
90	49.0	104.6	13,800 *
95	46.0	99.9	11,300 *
140 Ft. BOOM			
24	82.2	146.1	137,600 *
26	81.4	145.8	131,200 *
28	80.6	145.4	125,100 *
30	79.7	145.1	119,200 *
32	78.9	144.7	110,900 *
34	78.1	144.2	102,700 *
36	77.2	143.8	95,500 *
38	76.4	143.3	89,100 *
40	75.5	142.7	83,300 *
45	73.4	141.3	68,600 *
50	71.3	139.6	56,600 *
55	69.1	137.8	47,200 *
60	66.8	135.7	39,600 *
65	64.6	133.4	33,400 *
70	62.3	130.8	28,100 *
75	59.9	128.0	23,700 *
80	57.5	124.8	19,900 *
85	55.0	121.4	16,600 *
90	52.5	117.7	13,700 *
95	49.8	113.6	11,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	134,400 *
26	82.0	155.9	127,900 *
28	81.2	155.6	121,800 *
30	80.4	155.2	116,000 *
32	79.7	154.9	108,100 *
34	78.9	154.5	100,000 *
36	78.1	154.0	92,900 *
38	77.3	153.6	86,500 *
40	76.5	153.1	80,900 *
45	74.5	151.7	68,600 *
50	72.5	150.2	56,600 *
55	70.5	148.5	47,200 *
60	68.5	146.5	39,600 *
65	66.4	144.4	33,400 *
70	64.3	142.0	28,100 *
75	62.1	139.5	23,700 *
80	59.9	136.6	19,900 *
85	57.7	133.5	16,600 *
90	55.4	130.1	13,700 *
95	53.0	126.4	11,100 *
160 Ft. BOOM			
26	82.5	166.0	121,000 *
28	81.8	165.7	115,000 *
30	81.0	165.4	109,500 *
32	80.3	165.0	104,200 *
34	79.6	164.7	97,200 *
36	78.8	164.3	90,200 *
38	78.1	163.8	84,000 *
40	77.4	163.4	78,400 *
45	75.5	162.1	66,800 *
50	73.7	160.7	56,700 *
55	71.8	159.1	47,300 *
60	69.9	157.3	39,700 *
65	68.0	155.3	33,400 *
70	66.0	153.1	28,200 *
75	64.0	150.7	23,700 *
80	62.0	148.1	19,900 *
85	59.9	145.3	16,600 *
90	57.8	142.2	13,600 *
95	55.7	138.8	10,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	113,200 *
28	82.2	175.8	107,600 *
30	81.6	175.5	102,300 *
32	80.9	175.2	97,200 *
34	80.2	174.8	92,400 *
36	79.5	174.5	87,800 *
38	78.8	174.0	82,100 *
40	78.1	173.6	76,600 *
45	76.4	172.4	65,100 *
50	74.7	171.1	55,900 *
55	72.9	169.6	47,200 *
60	71.1	167.9	39,600 *
65	69.3	166.1	33,300 *
70	67.5	164.0	28,100 *
75	65.7	161.8	23,600 *
80	63.8	159.4	19,700 *
85	61.9	156.8	16,200 *
90	59.9	153.9	13,000 *
95	58.0	150.9	10,300 *



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142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

80 Ft. Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	282,100 *
15	81.8	76.6	272,500 *
16	81.0	76.5	261,800 *
17	80.2	76.3	245,200 *
18	79.3	76.1	230,300 *
19	78.5	75.9	216,800 *
20	77.7	75.6	204,600 *
22	76.0	75.1	183,300 *
24	74.3	74.5	165,400 *
26	72.6	73.9	150,000 *
28	70.8	73.2	136,800 *
30	69.1	72.4	125,200 *
32	67.3	71.5	115,000 *
34	65.5	70.6	105,200 *
36	63.6	69.6	95,000 *
38	61.8	68.5	86,200 *
40	59.9	67.3	78,500 *
45	54.9	64.0	63,100 *
50	49.7	59.9	51,300 *
55	43.9	55.0	42,200 *
60	37.5	48.9	34,800 *
80 Ft. BOOM			
15	82.9	86.8	247,300 *
16	82.1	86.6	239,300 *
17	81.4	86.4	231,500 *
18	80.7	86.3	224,400 *
19	80.0	86.1	217,600 *
20	79.2	85.9	205,400 *
22	77.8	85.4	184,100 *
24	76.3	84.9	166,200 *
26	74.8	84.4	150,800 *
28	73.3	83.8	137,600 *
30	71.8	83.1	126,000 *
32	70.3	82.3	115,900 *
34	68.7	81.6	106,600 *
36	67.2	80.7	96,400 *
38	65.6	79.8	87,500 *
40	64.0	78.8	79,800 *
45	59.9	76.0	64,300 *
50	55.6	72.7	52,500 *
55	51.1	68.8	43,200 *
60	46.2	64.2	35,800 *
65	40.9	58.8	29,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	229,500 *
17	82.4	96.6	222,500 *
18	81.7	96.4	215,800 *
19	81.1	96.2	209,200 *
20	80.4	96.1	203,200 *
22	79.1	95.7	184,500 *
24	77.8	95.2	166,600 *
26	76.5	94.7	151,300 *
28	75.2	94.2	138,100 *
30	73.9	93.6	126,600 *
32	72.5	93.0	116,400 *
34	71.2	92.3	107,400 *
36	69.8	91.5	97,300 *
38	68.5	90.7	88,400 *
40	67.1	89.9	80,700 *
45	63.6	87.5	65,100 *
50	59.9	84.7	53,300 *
55	56.1	81.4	44,000 *
60	52.1	77.7	36,600 *
65	47.9	73.3	30,400 *
70	43.4	68.2	25,300 *
75	38.4	62.3	21,000 *
100 Ft. BOOM			
18	82.6	106.5	195,700 *
19	82.0	106.4	190,000 *
20	81.4	106.2	184,700 *
22	80.2	105.9	174,600 *
24	79.1	105.5	165,300 *
26	77.9	105.0	150,200 *
28	76.7	104.5	137,400 *
30	75.5	104.0	126,500 *
32	74.4	103.4	116,600 *
34	73.2	102.8	107,600 *
36	71.9	102.2	98,100 *
38	70.7	101.5	89,200 *
40	69.5	100.7	81,400 *
45	66.4	98.6	65,700 *
50	63.2	96.1	53,800 *
55	59.9	93.3	44,500 *
60	56.5	90.1	37,000 *
65	53.0	86.4	30,900 *
70	49.2	82.3	25,700 *
75	45.3	77.5	21,400 *
80	41.0	72.0	17,600 *
85	36.3	65.5	14,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	186,100 *
20	82.2	116.3	180,500 *
22	81.1	116.0	170,200 *
24	80.1	115.7	160,600 *
26	79.0	115.3	151,400 *
28	78.0	114.8	138,300 *
30	76.9	114.4	126,800 *
32	75.8	113.8	116,600 *
34	74.7	113.3	107,600 *
36	73.6	112.7	98,300 *
38	72.5	112.0	89,400 *
40	71.4	111.4	81,600 *
45	68.7	109.5	66,000 *
50	65.8	107.3	54,100 *
55	62.9	104.8	44,800 *
60	59.9	102.0	37,300 *
65	56.8	98.8	31,200 *
70	53.6	95.2	26,000 *
75	50.3	91.2	21,700 *
80	46.8	86.6	17,900 *
85	43.0	81.5	14,600 *
90	39.0	75.6	11,800 *
120 Ft. BOOM			
20	82.9	126.4	169,300 *
22	81.9	126.2	160,600 *
24	80.9	125.8	152,500 *
26	79.9	125.5	144,800 *
28	79.0	125.1	135,700 *
30	78.0	124.6	124,500 *
32	77.0	124.2	114,800 *
34	76.0	123.6	106,400 *
36	75.0	123.1	98,900 *
38	74.0	122.5	89,900 *
40	73.0	121.9	82,200 *
45	70.5	120.2	66,500 *
50	68.0	118.2	54,600 *
55	65.3	116.0	45,300 *
60	62.7	113.5	37,700 *
65	59.9	110.6	31,600 *
70	57.1	107.5	26,400 *
75	54.2	104.0	22,000 *
80	51.2	100.0	18,300 *
85	48.0	95.7	15,000 *
90	44.6	90.8	12,100 *



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80 Ft. Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	152,800 *
24	81.6	136.0	144,900 *
26	80.7	135.6	137,500 *
28	79.8	135.3	130,500 *
30	78.9	134.9	121,700 *
32	78.0	134.4	112,100 *
34	77.1	134.0	103,800 *
36	76.2	133.5	96,500 *
38	75.3	132.9	89,900 *
40	74.4	132.4	82,500 *
45	72.1	130.8	66,700 *
50	69.7	129.0	54,800 *
55	67.4	127.0	45,500 *
60	64.9	124.7	38,000 *
65	62.5	122.1	31,800 *
70	59.9	119.3	26,600 *
75	57.3	116.2	22,200 *
80	54.7	112.7	18,400 *
85	51.9	108.9	15,200 *
90	49.0	104.6	12,300 *
140 Ft. BOOM			
24	82.2	146.1	136,500 *
26	81.4	145.8	130,100 *
28	80.6	145.4	124,100 *
30	79.7	145.1	118,200 *
32	78.9	144.7	108,800 *
34	78.1	144.2	100,600 *
36	77.2	143.8	93,400 *
38	76.4	143.3	87,000 *
40	75.5	142.7	81,300 *
45	73.4	141.3	66,900 *
50	71.3	139.6	55,000 *
55	69.1	137.8	45,600 *
60	66.8	135.7	38,000 *
65	64.6	133.4	31,800 *
70	62.3	130.8	26,600 *
75	59.9	128.0	22,200 *
80	57.5	124.8	18,400 *
85	55.0	121.4	15,100 *
90	52.5	117.7	12,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	131,300 *
26	82.0	155.9	124,900 *
28	81.2	155.6	118,900 *
30	80.4	155.2	113,200 *
32	79.7	154.9	106,000 *
34	78.9	154.5	97,900 *
36	78.1	154.0	90,800 *
38	77.3	153.6	84,500 *
40	76.5	153.1	78,900 *
45	74.5	151.7	67,000 *
50	72.5	150.2	55,100 *
55	70.5	148.5	45,700 *
60	68.5	146.5	38,100 *
65	66.4	144.4	31,900 *
70	64.3	142.0	26,700 *
75	62.1	139.5	22,200 *
80	59.9	136.6	18,400 *
85	57.7	133.5	15,100 *
90	55.4	130.1	12,200 *
160 Ft. BOOM			
26	82.5	166.0	120,000 *
28	81.8	165.7	114,000 *
30	81.0	165.4	108,400 *
32	80.3	165.0	103,100 *
34	79.6	164.7	95,100 *
36	78.8	164.3	88,200 *
38	78.1	163.8	82,000 *
40	77.4	163.4	76,500 *
45	75.5	162.1	64,900 *
50	73.7	160.7	55,200 *
55	71.8	159.1	45,800 *
60	69.9	157.3	38,200 *
65	68.0	155.3	31,900 *
70	66.0	153.1	26,700 *
75	64.0	150.7	22,300 *
80	62.0	148.1	18,500 *
85	59.9	145.3	15,200 *
90	57.8	142.2	12,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	112,300 *
28	82.2	175.8	106,600 *
30	81.6	175.5	101,300 *
32	80.9	175.2	96,200 *
34	80.2	174.8	91,400 *
36	79.5	174.5	86,300 *
38	78.8	174.0	80,200 *
40	78.1	173.6	74,700 *
45	76.4	172.4	63,200 *
50	74.7	171.1	54,100 *
55	72.9	169.6	45,700 *
60	71.1	167.9	38,100 *
65	69.3	166.1	31,900 *
70	67.5	164.0	26,700 *
75	65.7	161.8	22,200 *
80	63.8	159.4	18,400 *
85	61.9	156.8	15,000 *
90	59.9	153.9	11,900 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

90 Ft. Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	279,700 *
15	81.8	76.6	270,200 *
16	81.0	76.5	257,200 *
17	80.2	76.3	240,700 *
18	79.3	76.1	225,900 *
19	78.5	75.9	212,500 *
20	77.7	75.6	200,500 *
22	76.0	75.1	179,400 *
24	74.3	74.5	161,600 *
26	72.6	73.9	146,400 *
28	70.8	73.2	133,300 *
30	69.1	72.4	121,800 *
32	67.3	71.5	111,700 *
34	65.5	70.6	102,000 *
36	63.6	69.6	91,900 *
38	61.8	68.5	83,300 *
40	59.9	67.3	75,700 *
45	54.9	64.0	60,500 *
50	49.7	59.9	48,900 *
55	43.9	55.0	39,900 *
60	37.5	48.9	32,700 *
80 Ft. BOOM			
15	82.9	86.8	245,200 *
16	82.1	86.6	236,900 *
17	81.4	86.4	229,400 *
18	80.7	86.3	222,300 *
19	80.0	86.1	213,400 *
20	79.2	85.9	201,400 *
22	77.8	85.4	180,300 *
24	76.3	84.9	162,500 *
26	74.8	84.4	147,300 *
28	73.3	83.8	134,200 *
30	71.8	83.1	122,700 *
32	70.3	82.3	112,700 *
34	68.7	81.6	103,600 *
36	67.2	80.7	93,500 *
38	65.6	79.8	84,700 *
40	64.0	78.8	77,100 *
45	59.9	76.0	61,800 *
50	55.6	72.7	50,100 *
55	51.1	68.8	41,000 *
60	46.2	64.2	33,700 *
65	40.9	58.8	27,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,500 *
17	82.4	96.6	220,500 *
18	81.7	96.4	213,600 *
19	81.1	96.2	207,300 *
20	80.4	96.1	201,400 *
22	79.1	95.7	180,700 *
24	77.8	95.2	163,000 *
26	76.5	94.7	147,900 *
28	75.2	94.2	134,800 *
30	73.9	93.6	123,400 *
32	72.5	93.0	113,300 *
34	71.2	92.3	104,400 *
36	69.8	91.5	94,400 *
38	68.5	90.7	85,700 *
40	67.1	89.9	78,100 *
45	63.6	87.5	62,700 *
50	59.9	84.7	51,000 *
55	56.1	81.4	41,900 *
60	52.1	77.7	34,600 *
65	47.9	73.3	28,500 *
70	43.4	68.2	23,500 *
75	38.4	62.3	19,200 *
100 Ft. BOOM			
18	82.6	106.5	193,900 *
19	82.0	106.4	188,200 *
20	81.4	106.2	182,900 *
22	80.2	105.9	172,700 *
24	79.1	105.5	161,200 *
26	77.9	105.0	146,300 *
28	76.7	104.5	133,700 *
30	75.5	104.0	123,000 *
32	74.4	103.4	113,600 *
34	73.2	102.8	104,700 *
36	71.9	102.2	95,300 *
38	70.7	101.5	86,500 *
40	69.5	100.7	78,800 *
45	66.4	98.6	63,400 *
50	63.2	96.1	51,700 *
55	59.9	93.3	42,500 *
60	56.5	90.1	35,100 *
65	53.0	86.4	29,000 *
70	49.2	82.3	24,000 *
75	45.3	77.5	19,700 *
80	41.0	72.0	16,000 *
85	36.3	65.5	12,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	184,400 *
20	82.2	116.3	178,900 *
22	81.1	116.0	168,500 *
24	80.1	115.7	158,900 *
26	79.0	115.3	148,100 *
28	78.0	114.8	135,100 *
30	76.9	114.4	123,700 *
32	75.8	113.8	113,700 *
34	74.7	113.3	104,800 *
36	73.6	112.7	95,600 *
38	72.5	112.0	86,800 *
40	71.4	111.4	79,100 *
45	68.7	109.5	63,700 *
50	65.8	107.3	52,000 *
55	62.9	104.8	42,800 *
60	59.9	102.0	35,400 *
65	56.8	98.8	29,400 *
70	53.6	95.2	24,300 *
75	50.3	91.2	20,000 *
80	46.8	86.6	16,300 *
85	43.0	81.5	13,100 *
90	39.0	75.6	10,300 *
120 Ft. BOOM			
20	82.9	126.4	167,800 *
22	81.9	126.2	159,100 *
24	80.9	125.8	151,000 *
26	79.9	125.5	143,500 *
28	79.0	125.1	132,100 *
30	78.0	124.6	121,100 *
32	77.0	124.2	111,600 *
34	76.0	123.6	103,300 *
36	75.0	123.1	96,000 *
38	74.0	122.5	87,400 *
40	73.0	121.9	79,700 *
45	70.5	120.2	64,200 *
50	68.0	118.2	52,500 *
55	65.3	116.0	43,300 *
60	62.7	113.5	35,900 *
65	59.9	110.6	29,800 *
70	57.1	107.5	24,700 *
75	54.2	104.0	20,400 *
80	51.2	100.0	16,700 *
85	48.0	95.7	13,500 *
90	44.6	90.8	10,700 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
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777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

90 Ft. Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	151,400 *
24	81.6	136.0	143,500 *
26	80.7	135.6	136,100 *
28	79.8	135.3	129,200 *
30	78.9	134.9	118,300 *
32	78.0	134.4	108,900 *
34	77.1	134.0	100,700 *
36	76.2	133.5	93,500 *
38	75.3	132.9	87,100 *
40	74.4	132.4	80,100 *
45	72.1	130.8	64,600 *
50	69.7	129.0	52,800 *
55	67.4	127.0	43,600 *
60	64.9	124.7	36,200 *
65	62.5	122.1	30,100 *
70	59.9	119.3	24,900 *
75	57.3	116.2	20,600 *
80	54.7	112.7	16,900 *
85	51.9	108.9	13,700 *
90	49.0	104.6	10,800 *
140 Ft. BOOM			
24	82.2	146.1	135,200 *
26	81.4	145.8	128,800 *
28	80.6	145.4	122,700 *
30	79.7	145.1	114,900 *
32	78.9	144.7	105,600 *
34	78.1	144.2	97,600 *
36	77.2	143.8	90,500 *
38	76.4	143.3	84,200 *
40	75.5	142.7	78,600 *
45	73.4	141.3	64,800 *
50	71.3	139.6	53,000 *
55	69.1	137.8	43,700 *
60	66.8	135.7	36,300 *
65	64.6	133.4	30,100 *
70	62.3	130.8	25,000 *
75	59.9	128.0	20,600 *
80	57.5	124.8	16,900 *
85	55.0	121.4	13,700 *
90	52.5	117.7	10,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	130,000 *
26	82.0	155.9	123,600 *
28	81.2	155.6	117,600 *
30	80.4	155.2	111,900 *
32	79.7	154.9	102,800 *
34	78.9	154.5	94,900 *
36	78.1	154.0	87,900 *
38	77.3	153.6	81,700 *
40	76.5	153.1	76,200 *
45	74.5	151.7	64,600 *
50	72.5	150.2	53,100 *
55	70.5	148.5	43,800 *
60	68.5	146.5	36,300 *
65	66.4	144.4	30,200 *
70	64.3	142.0	25,100 *
75	62.1	139.5	20,700 *
80	59.9	136.6	17,000 *
85	57.7	133.5	13,700 *
90	55.4	130.1	10,800 *
160 Ft. BOOM			
26	82.5	166.0	118,700 *
28	81.8	165.7	112,800 *
30	81.0	165.4	107,200 *
32	80.3	165.0	100,000 *
34	79.6	164.7	92,200 *
36	78.8	164.3	85,300 *
38	78.1	163.8	79,300 *
40	77.4	163.4	73,800 *
45	75.5	162.1	62,500 *
50	73.7	160.7	53,300 *
55	71.8	159.1	44,000 *
60	69.9	157.3	36,500 *
65	68.0	155.3	30,300 *
70	66.0	153.1	25,200 *
75	64.0	150.7	20,800 *
80	62.0	148.1	17,000 *
85	59.9	145.3	13,800 *
90	57.8	142.2	10,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	111,100 *
28	82.2	175.8	105,400 *
30	81.6	175.5	100,100 *
32	80.9	175.2	95,100 *
34	80.2	174.8	90,300 *
36	79.5	174.5	83,500 *
38	78.8	174.0	77,400 *
40	78.1	173.6	72,000 *
45	76.4	172.4	60,700 *
50	74.7	171.1	51,800 *
55	72.9	169.6	44,000 *
60	71.1	167.9	36,500 *
65	69.3	166.1	30,300 *
70	67.5	164.0	25,100 *
75	65.7	161.8	20,700 *
80	63.8	159.4	17,000 *
85	61.9	156.8	13,700 *
90	59.9	153.9	10,800 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
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777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

100 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	281,500 *
15	81.8	76.6	271,800 *
16	81.0	76.5	259,800 *
17	80.2	76.3	243,000 *
18	79.3	76.1	227,900 *
19	78.5	75.9	214,300 *
20	77.7	75.6	201,900 *
22	76.0	75.1	180,400 *
24	74.3	74.5	162,200 *
26	72.6	73.9	146,700 *
28	70.8	73.2	133,300 *
30	69.1	72.4	121,600 *
32	67.3	71.5	111,300 *
34	65.5	70.6	101,600 *
36	63.6	69.6	91,300 *
38	61.8	68.5	82,500 *
40	59.9	67.3	74,800 *
45	54.9	64.0	59,200 *
50	49.7	59.9	47,400 *
55	43.9	55.0	38,200 *
60	37.5	48.9	30,700 *
80 Ft. BOOM			
15	82.9	86.8	246,700 *
16	82.1	86.6	238,300 *
17	81.4	86.4	230,700 *
18	80.7	86.3	223,500 *
19	80.0	86.1	215,400 *
20	79.2	85.9	203,100 *
22	77.8	85.4	181,600 *
24	76.3	84.9	163,400 *
26	74.8	84.4	147,900 *
28	73.3	83.8	134,500 *
30	71.8	83.1	122,800 *
32	70.3	82.3	112,500 *
34	68.7	81.6	103,400 *
36	67.2	80.7	93,200 *
38	65.6	79.8	84,300 *
40	64.0	78.8	76,500 *
45	59.9	76.0	60,900 *
50	55.6	72.7	49,000 *
55	51.1	68.8	39,700 *
60	46.2	64.2	32,200 *
65	40.9	58.8	26,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	228,900 *
17	82.4	96.6	221,800 *
18	81.7	96.4	215,000 *
19	81.1	96.2	208,400 *
20	80.4	96.1	202,300 *
22	79.1	95.7	182,200 *
24	77.8	95.2	164,200 *
26	76.5	94.7	148,700 *
28	75.2	94.2	135,400 *
30	73.9	93.6	123,700 *
32	72.5	93.0	113,400 *
34	71.2	92.3	104,300 *
36	69.8	91.5	94,400 *
38	68.5	90.7	85,500 *
40	67.1	89.9	77,700 *
45	63.6	87.5	62,100 *
50	59.9	84.7	50,200 *
55	56.1	81.4	40,900 *
60	52.1	77.7	33,400 *
65	47.9	73.3	27,200 *
70	43.4	68.2	22,000 *
75	38.4	62.3	17,600 *
100 Ft. BOOM			
18	82.6	106.5	194,900 *
19	82.0	106.4	189,300 *
20	81.4	106.2	183,800 *
22	80.2	105.9	173,500 *
24	79.1	105.5	162,900 *
26	77.9	105.0	147,600 *
28	76.7	104.5	134,700 *
30	75.5	104.0	123,600 *
32	74.4	103.4	113,900 *
34	73.2	102.8	104,800 *
36	71.9	102.2	95,500 *
38	70.7	101.5	86,500 *
40	69.5	100.7	78,700 *
45	66.4	98.6	63,000 *
50	63.2	96.1	51,000 *
55	59.9	93.3	41,700 *
60	56.5	90.1	34,100 *
65	53.0	86.4	27,900 *
70	49.2	82.3	22,700 *
75	45.3	77.5	18,300 *
80	41.0	72.0	14,500 *
85	36.3	65.5	11,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	185,400 *
20	82.2	116.3	179,800 *
22	81.1	116.0	169,300 *
24	80.1	115.7	159,500 *
26	79.0	115.3	149,300 *
28	78.0	114.8	136,000 *
30	76.9	114.4	124,400 *
32	75.8	113.8	114,100 *
34	74.7	113.3	105,100 *
36	73.6	112.7	95,900 *
38	72.5	112.0	87,000 *
40	71.4	111.4	79,200 *
45	68.7	109.5	63,400 *
50	65.8	107.3	51,500 *
55	62.9	104.8	42,200 *
60	59.9	102.0	34,600 *
65	56.8	98.8	28,400 *
70	53.6	95.2	23,200 *
75	50.3	91.2	18,800 *
80	46.8	86.6	15,100 *
85	43.0	81.5	11,800 *
120 Ft. BOOM			
20	82.9	126.4	168,600 *
22	81.9	126.2	159,800 *
24	80.9	125.8	151,600 *
26	79.9	125.5	143,900 *
28	79.0	125.1	133,400 *
30	78.0	124.6	122,100 *
32	77.0	124.2	112,300 *
34	76.0	123.6	103,800 *
36	75.0	123.1	96,300 *
38	74.0	122.5	87,700 *
40	73.0	121.9	79,900 *
45	70.5	120.2	64,100 *
50	68.0	118.2	52,200 *
55	65.3	116.0	42,800 *
60	62.7	113.5	35,200 *
65	59.9	110.6	29,000 *
70	57.1	107.5	23,800 *
75	54.2	104.0	19,400 *
80	51.2	100.0	15,600 *
85	48.0	95.7	12,300 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

100 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	152,100 *
24	81.6	136.0	144,100 *
26	80.7	135.6	136,700 *
28	79.8	135.3	129,700 *
30	78.9	134.9	119,400 *
32	78.0	134.4	109,800 *
34	77.1	134.0	101,400 *
36	76.2	133.5	94,000 *
38	75.3	132.9	87,400 *
40	74.4	132.4	80,400 *
45	72.1	130.8	64,600 *
50	69.7	129.0	52,600 *
55	67.4	127.0	43,200 *
60	64.9	124.7	35,600 *
65	62.5	122.1	29,400 *
70	59.9	119.3	24,200 *
75	57.3	116.2	19,700 *
80	54.7	112.7	15,900 *
85	51.9	108.9	12,600 *
140 Ft. BOOM			
24	82.2	146.1	135,700 *
26	81.4	145.8	129,300 *
28	80.6	145.4	123,200 *
30	79.7	145.1	116,100 *
32	78.9	144.7	106,600 *
34	78.1	144.2	98,300 *
36	77.2	143.8	91,000 *
38	76.4	143.3	84,600 *
40	75.5	142.7	78,800 *
45	73.4	141.3	64,900 *
50	71.3	139.6	52,800 *
55	69.1	137.8	43,400 *
60	66.8	135.7	35,800 *
65	64.6	133.4	29,500 *
70	62.3	130.8	24,300 *
75	59.9	128.0	19,900 *
80	57.5	124.8	16,000 *
85	55.0	121.4	12,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	130,500 *
26	82.0	155.9	124,100 *
28	81.2	155.6	118,100 *
30	80.4	155.2	112,200 *
32	79.7	154.9	103,900 *
34	78.9	154.5	95,700 *
36	78.1	154.0	88,600 *
38	77.3	153.6	82,200 *
40	76.5	153.1	76,600 *
45	74.5	151.7	64,600 *
50	72.5	150.2	53,000 *
55	70.5	148.5	43,600 *
60	68.5	146.5	36,000 *
65	66.4	144.4	29,700 *
70	64.3	142.0	24,500 *
75	62.1	139.5	20,000 *
80	59.9	136.6	16,200 *
85	57.7	133.5	12,900 *
160 Ft. BOOM			
26	82.5	166.0	119,200 *
28	81.8	165.7	113,200 *
30	81.0	165.4	107,600 *
32	80.3	165.0	101,100 *
34	79.6	164.7	93,100 *
36	78.8	164.3	86,100 *
38	78.1	163.8	79,800 *
40	77.4	163.4	74,200 *
45	75.5	162.1	62,600 *
50	73.7	160.7	53,300 *
55	71.8	159.1	43,800 *
60	69.9	157.3	36,200 *
65	68.0	155.3	29,900 *
70	66.0	153.1	24,600 *
75	64.0	150.7	20,200 *
80	62.0	148.1	16,300 *
85	59.9	145.3	13,000 *
90	57.8	142.2	10,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	111,500 *
28	82.2	175.8	105,800 *
30	81.6	175.5	100,500 *
32	80.9	175.2	95,400 *
34	80.2	174.8	90,600 *
36	79.5	174.5	84,300 *
38	78.8	174.0	78,100 *
40	78.1	173.6	72,500 *
45	76.4	172.4	60,900 *
50	74.7	171.1	51,700 *
55	72.9	169.6	43,900 *
60	71.1	167.9	36,200 *
65	69.3	166.1	29,900 *
70	67.5	164.0	24,700 *
75	65.7	161.8	20,200 *
80	63.8	159.4	16,400 *
85	61.9	156.8	13,000 *
90	59.9	153.9	10,100 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

110 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	279,500 *
15	81.8	76.6	269,800 *
16	81.0	76.5	256,700 *
17	80.2	76.3	239,900 *
18	79.3	76.1	224,900 *
19	78.5	75.9	211,400 *
20	77.7	75.6	199,100 *
22	76.0	75.1	177,700 *
24	74.3	74.5	159,600 *
26	72.6	73.9	144,200 *
28	70.8	73.2	130,800 *
30	69.1	72.4	119,200 *
32	67.3	71.5	108,900 *
34	65.5	70.6	99,200
36	63.6	69.6	89,100
38	61.8	68.5	80,300
40	59.9	67.3	72,700
45	54.9	64.0	57,300
50	49.7	59.9	45,600
55	43.9	55.0	36,500
60	37.5	48.9	29,100
80 Ft. BOOM			
15	82.9	86.8	244,900 *
16	82.1	86.6	236,500 *
17	81.4	86.4	228,900 *
18	80.7	86.3	221,700 *
19	80.0	86.1	212,600 *
20	79.2	85.9	200,300 *
22	77.8	85.4	178,900 *
24	76.3	84.9	160,900 *
26	74.8	84.4	145,500 *
28	73.3	83.8	132,200 *
30	71.8	83.1	120,600 *
32	70.3	82.3	110,300 *
34	68.7	81.6	101,200 *
36	67.2	80.7	91,100
38	65.6	79.8	82,200
40	64.0	78.8	74,600
45	59.9	76.0	59,100
50	55.6	72.7	47,300
55	51.1	68.8	38,100
60	46.2	64.2	30,700
65	40.9	58.8	24,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,200 *
17	82.4	96.6	220,100 *
18	81.7	96.4	213,100 *
19	81.1	96.2	206,700 *
20	80.4	96.1	200,700 *
22	79.1	95.7	179,700 *
24	77.8	95.2	161,700 *
26	76.5	94.7	146,400 *
28	75.2	94.2	133,100 *
30	73.9	93.6	121,500 *
32	72.5	93.0	111,300 *
34	71.2	92.3	102,200 *
36	69.8	91.5	92,400
38	68.5	90.7	83,600
40	67.1	89.9	75,900
45	63.6	87.5	60,300
50	59.9	84.7	48,600
55	56.1	81.4	39,300
60	52.1	77.7	31,900
65	47.9	73.3	25,800
70	43.4	68.2	20,700
75	38.4	62.3	16,400
100 Ft. BOOM			
18	82.6	106.5	193,400 *
19	82.0	106.4	187,700 *
20	81.4	106.2	182,300 *
22	80.2	105.9	172,000 *
24	79.1	105.5	160,100 *
26	77.9	105.0	144,900 *
28	76.7	104.5	132,100 *
30	75.5	104.0	121,200 *
32	74.4	103.4	111,800 *
34	73.2	102.8	102,800 *
36	71.9	102.2	93,600
38	70.7	101.5	84,700
40	69.5	100.7	76,900
45	66.4	98.6	61,300
50	63.2	96.1	49,500
55	59.9	93.3	40,200
60	56.5	90.1	32,700
65	53.0	86.4	26,600
70	49.2	82.3	21,500
75	45.3	77.5	17,100
80	41.0	72.0	13,300
85	36.3	65.5	10,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	183,900 *
20	82.2	116.3	178,400 *
22	81.1	116.0	167,900 *
24	80.1	115.7	158,200 *
26	79.0	115.3	147,100 *
28	78.0	114.8	133,900 *
30	76.9	114.4	122,300 *
32	75.8	113.8	112,100 *
34	74.7	113.3	103,100 *
36	73.6	112.7	94,100
38	72.5	112.0	85,200
40	71.4	111.4	77,500
45	68.7	109.5	61,800
50	65.8	107.3	50,000
55	62.9	104.8	40,700
60	59.9	102.0	33,300
65	56.8	98.8	27,100
70	53.6	95.2	22,000
75	50.3	91.2	17,700
80	46.8	86.6	13,900
85	43.0	81.5	10,700
120 Ft. BOOM			
20	82.9	126.4	167,300 *
22	81.9	126.2	158,500 *
24	80.9	125.8	150,300 *
26	79.9	125.5	142,700 *
28	79.0	125.1	131,000 *
30	78.0	124.6	119,800 *
32	77.0	124.2	110,100 *
34	76.0	123.6	101,700 *
36	75.0	123.1	94,300 *
38	74.0	122.5	86,000
40	73.0	121.9	78,200
45	70.5	120.2	62,600
50	68.0	118.2	50,700
55	65.3	116.0	41,400
60	62.7	113.5	33,900
65	59.9	110.6	27,800
70	57.1	107.5	22,600
75	54.2	104.0	18,300
80	51.2	100.0	14,500
85	48.0	95.7	11,300

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

110 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	150,800 *
24	81.6	136.0	142,900 *
26	80.7	135.6	135,400 *
28	79.8	135.3	128,300 *
30	78.9	134.9	117,200 *
32	78.0	134.4	107,700 *
34	77.1	134.0	99,300 *
36	76.2	133.5	92,000 *
38	75.3	132.9	85,400 *
40	74.4	132.4	78,800 *
45	72.1	130.8	63,100 *
50	69.7	129.0	51,200 *
55	67.4	127.0	41,900 *
60	64.9	124.7	34,300 *
65	62.5	122.1	28,200 *
70	59.9	119.3	23,000 *
75	57.3	116.2	18,600 *
80	54.7	112.7	14,900 *
85	51.9	108.9	11,600 *
140 Ft. BOOM			
24	82.2	146.1	134,600 *
26	81.4	145.8	128,200 *
28	80.6	145.4	122,000 *
30	79.7	145.1	113,900 *
32	78.9	144.7	104,500 *
34	78.1	144.2	96,300 *
36	77.2	143.8	89,100 *
38	76.4	143.3	82,700 *
40	75.5	142.7	77,000 *
45	73.4	141.3	63,400 *
50	71.3	139.6	51,500 *
55	69.1	137.8	42,100 *
60	66.8	135.7	34,600 *
65	64.6	133.4	28,400 *
70	62.3	130.8	23,200 *
75	59.9	128.0	18,800 *
80	57.5	124.8	15,000 *
85	55.0	121.4	11,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	129,400 *
26	82.0	155.9	123,000 *
28	81.2	155.6	117,000 *
30	80.4	155.2	111,100 *
32	79.7	154.9	101,800 *
34	78.9	154.5	93,800 *
36	78.1	154.0	86,700 *
38	77.3	153.6	80,400 *
40	76.5	153.1	74,800 *
45	74.5	151.7	63,000 *
50	72.5	150.2	51,700 *
55	70.5	148.5	42,300 *
60	68.5	146.5	34,800 *
65	66.4	144.4	28,600 *
70	64.3	142.0	23,400 *
75	62.1	139.5	19,000 *
80	59.9	136.6	15,200 *
85	57.7	133.5	11,900 *
160 Ft. BOOM			
26	82.5	166.0	118,100 *
28	81.8	165.7	112,100 *
30	81.0	165.4	106,500 *
32	80.3	165.0	99,100 *
34	79.6	164.7	91,200 *
36	78.8	164.3	84,200 *
38	78.1	163.8	78,000 *
40	77.4	163.4	72,500 *
45	75.5	162.1	61,000 *
50	73.7	160.7	51,800 *
55	71.8	159.1	42,600 *
60	69.9	157.3	35,000 *
65	68.0	155.3	28,800 *
70	66.0	153.1	23,600 *
75	64.0	150.7	19,200 *
80	62.0	148.1	15,400 *
85	59.9	145.3	12,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	110,500 *
28	82.2	175.8	104,800 *
30	81.6	175.5	99,400 *
32	80.9	175.2	94,400 *
34	80.2	174.8	89,400 *
36	79.5	174.5	82,500 *
38	78.8	174.0	76,300 *
40	78.1	173.6	70,800 *
45	76.4	172.4	59,300 *
50	74.7	171.1	50,200 *
55	72.9	169.6	42,700 *
60	71.1	167.9	35,100 *
65	69.3	166.1	28,900 *
70	67.5	164.0	23,600 *
75	65.7	161.8	19,200 *
80	63.8	159.4	15,400 *
85	61.9	156.8	12,100 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

120 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	276,600 *
15	81.8	76.6	266,900 *
16	81.0	76.5	251,900 *
17	80.2	76.3	235,300 *
18	79.3	76.1	220,300 *
19	78.5	75.9	206,900 *
20	77.7	75.6	194,700 *
22	76.0	75.1	173,400 *
24	74.3	74.5	155,400 *
26	72.6	73.9	140,100 *
28	70.8	73.2	126,900 *
30	69.1	72.4	115,300 *
32	67.3	71.5	105,100 *
34	65.5	70.6	95,600 *
36	63.6	69.6	85,500 *
38	61.8	68.5	76,900 *
40	59.9	67.3	69,400 *
45	54.9	64.0	54,100 *
50	49.7	59.9	42,600 *
55	43.9	55.0	33,600 *
60	37.5	48.9	26,400 *
80 Ft. BOOM			
15	82.9	86.8	242,200 *
16	82.1	86.6	233,900 *
17	81.4	86.4	226,300 *
18	80.7	86.3	219,100 *
19	80.0	86.1	208,300 *
20	79.2	85.9	196,100 *
22	77.8	85.4	174,800 *
24	76.3	84.9	156,900 *
26	74.8	84.4	141,600 *
28	73.3	83.8	128,400 *
30	71.8	83.1	116,900 *
32	70.3	82.3	106,700 *
34	68.7	81.6	97,700 *
36	67.2	80.7	87,700 *
38	65.6	79.8	79,000 *
40	64.0	78.8	71,400 *
45	59.9	76.0	56,100 *
50	55.6	72.7	44,500 *
55	51.1	68.8	35,400 *
60	46.2	64.2	28,100 *
65	40.9	58.8	22,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	224,700 *
17	82.4	96.6	217,600 *
18	81.7	96.4	210,600 *
19	81.1	96.2	204,300 *
20	80.4	96.1	196,900 *
22	79.1	95.7	175,800 *
24	77.8	95.2	157,900 *
26	76.5	94.7	142,600 *
28	75.2	94.2	129,400 *
30	73.9	93.6	117,900 *
32	72.5	93.0	107,800 *
34	71.2	92.3	98,800 *
36	69.8	91.5	89,200 *
38	68.5	90.7	80,500 *
40	67.1	89.9	72,800 *
45	63.6	87.5	57,500 *
50	59.9	84.7	45,900 *
55	56.1	81.4	36,700 *
60	52.1	77.7	29,400 *
65	47.9	73.3	23,400 *
70	43.4	68.2	18,400 *
75	38.4	62.3	14,100 *
100 Ft. BOOM			
18	82.6	106.5	191,100 *
19	82.0	106.4	185,400 *
20	81.4	106.2	180,000 *
22	80.2	105.9	169,700 *
24	79.1	105.5	155,700 *
26	77.9	105.0	140,700 *
28	76.7	104.5	128,100 *
30	75.5	104.0	117,400 *
32	74.4	103.4	108,000 *
34	73.2	102.8	99,500 *
36	71.9	102.2	90,500 *
38	70.7	101.5	81,700 *
40	69.5	100.7	74,000 *
45	66.4	98.6	58,600 *
50	63.2	96.1	46,900 *
55	59.9	93.3	37,700 *
60	56.5	90.1	30,300 *
65	53.0	86.4	24,300 *
70	49.2	82.3	19,200 *
75	45.3	77.5	14,900 *
80	41.0	72.0	11,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	181,800 *
20	82.2	116.3	176,200 *
22	81.1	116.0	165,700 *
24	80.1	115.7	156,100 *
26	79.0	115.3	143,500 *
28	78.0	114.8	130,300 *
30	76.9	114.4	119,000 *
32	75.8	113.8	108,900 *
34	74.7	113.3	99,900 *
36	73.6	112.7	91,100 *
38	72.5	112.0	82,300 *
40	71.4	111.4	74,600 *
45	68.7	109.5	59,200 *
50	65.8	107.3	47,500 *
55	62.9	104.8	38,400 *
60	59.9	102.0	31,000 *
65	56.8	98.8	24,900 *
70	53.6	95.2	19,900 *
75	50.3	91.2	15,600 *
80	46.8	86.6	11,900 *
120 Ft. BOOM			
20	82.9	126.4	165,300 *
22	81.9	126.2	156,500 *
24	80.9	125.8	148,400 *
26	79.9	125.5	140,100 *
28	79.0	125.1	127,100 *
30	78.0	124.6	116,100 *
32	77.0	124.2	106,600 *
34	76.0	123.6	98,200 *
36	75.0	123.1	90,900 *
38	74.0	122.5	83,200 *
40	73.0	121.9	75,500 *
45	70.5	120.2	60,000 *
50	68.0	118.2	48,300 *
55	65.3	116.0	39,100 *
60	62.7	113.5	31,700 *
65	59.9	110.6	25,600 *
70	57.1	107.5	20,500 *
75	54.2	104.0	16,200 *
80	51.2	100.0	12,500 *

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

120 Ft. Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	149,000 *
24	81.6	136.0	141,000 *
26	80.7	135.6	133,600 *
28	79.8	135.3	124,500 *
30	78.9	134.9	113,600 *
32	78.0	134.4	104,200 *
34	77.1	134.0	95,900 *
36	76.2	133.5	88,700 *
38	75.3	132.9	82,200 *
40	74.4	132.4	76,100 *
45	72.1	130.8	60,600 *
50	69.7	129.0	48,800 *
55	67.4	127.0	39,600 *
60	64.9	124.7	32,200 *
65	62.5	122.1	26,100 *
70	59.9	119.3	21,000 *
75	57.3	116.2	16,600 *
80	54.7	112.7	12,900 *
140 Ft. BOOM			
24	82.2	146.1	132,800 *
26	81.4	145.8	126,400 *
28	80.6	145.4	120,200 *
30	79.7	145.1	110,300 *
32	78.9	144.7	101,100 *
34	78.1	144.2	93,000 *
36	77.2	143.8	85,900 *
38	76.4	143.3	79,600 *
40	75.5	142.7	73,900 *
45	73.4	141.3	61,000 *
50	71.3	139.6	49,200 *
55	69.1	137.8	39,900 *
60	66.8	135.7	32,500 *
65	64.6	133.4	26,300 *
70	62.3	130.8	21,200 *
75	59.9	128.0	16,900 *
80	57.5	124.8	13,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	127,700 *
26	82.0	155.9	121,300 *
28	81.2	155.6	115,200 *
30	80.4	155.2	107,600 *
32	79.7	154.9	98,500 *
34	78.9	154.5	90,500 *
36	78.1	154.0	83,500 *
38	77.3	153.6	77,300 *
40	76.5	153.1	71,800 *
45	74.5	151.7	60,100 *
50	72.5	150.2	49,500 *
55	70.5	148.5	40,200 *
60	68.5	146.5	32,700 *
65	66.4	144.4	26,600 *
70	64.3	142.0	21,400 *
75	62.1	139.5	17,100 *
80	59.9	136.6	13,300 *
85	57.7	133.5	10,100 *
160 Ft. BOOM			
26	82.5	166.0	116,400 *
28	81.8	165.7	110,400 *
30	81.0	165.4	104,700 *
32	80.3	165.0	95,800 *
34	79.6	164.7	87,900 *
36	78.8	164.3	81,100 *
38	78.1	163.8	75,000 *
40	77.4	163.4	69,600 *
45	75.5	162.1	58,200 *
50	73.7	160.7	49,100 *
55	71.8	159.1	40,500 *
60	69.9	157.3	33,000 *
65	68.0	155.3	26,800 *
70	66.0	153.1	21,700 *
75	64.0	150.7	17,300 *
80	62.0	148.1	13,600 *
85	59.9	145.3	10,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	108,900 *
28	82.2	175.8	103,200 *
30	81.6	175.5	97,800 *
32	80.9	175.2	92,800 *
34	80.2	174.8	86,200 *
36	79.5	174.5	79,400 *
38	78.8	174.0	73,300 *
40	78.1	173.6	67,900 *
45	76.4	172.4	56,600 *
50	74.7	171.1	47,600 *
55	72.9	169.6	40,200 *
60	71.1	167.9	33,100 *
65	69.3	166.1	26,900 *
70	67.5	164.0	21,800 *
75	65.7	161.8	17,400 *
80	63.8	159.4	13,600 *
85	61.9	156.8	10,400 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

130 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	280,300 *
15	81.8	76.6	270,400 *
16	81.0	76.5	257,400 *
17	80.2	76.3	240,300 *
18	79.3	76.1	224,900 *
19	78.5	75.9	211,100 *
20	77.7	75.6	198,500 *
22	76.0	75.1	176,600 *
24	74.3	74.5	158,100 *
26	72.6	73.9	142,300 *
28	70.8	73.2	128,700 *
30	69.1	72.4	116,800 *
32	67.3	71.5	106,300 *
34	65.5	70.6	96,600
36	63.6	69.6	86,300
38	61.8	68.5	77,400
40	59.9	67.3	69,600
45	54.9	64.0	53,900
50	49.7	59.9	42,000
55	43.9	55.0	32,700
60	37.5	48.9	25,100
80 Ft. BOOM			
15	82.9	86.8	245,500 *
16	82.1	86.6	237,000 *
17	81.4	86.4	229,200 *
18	80.7	86.3	221,900 *
19	80.0	86.1	212,700 *
20	79.2	85.9	200,200 *
22	77.8	85.4	178,300 *
24	76.3	84.9	159,900 *
26	74.8	84.4	144,100 *
28	73.3	83.8	130,500 *
30	71.8	83.1	118,600 *
32	70.3	82.3	108,200 *
34	68.7	81.6	98,900 *
36	67.2	80.7	88,800
38	65.6	79.8	79,900
40	64.0	78.8	72,100
45	59.9	76.0	56,300
50	55.6	72.7	44,300
55	51.1	68.8	34,900
60	46.2	64.2	27,300
65	40.9	58.8	21,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,700 *
17	82.4	96.6	220,500 *
18	81.7	96.4	213,600 *
19	81.1	96.2	206,900 *
20	80.4	96.1	200,800 *
22	79.1	95.7	179,500 *
24	77.8	95.2	161,100 *
26	76.5	94.7	145,400 *
28	75.2	94.2	131,800 *
30	73.9	93.6	120,000 *
32	72.5	93.0	109,500 *
34	71.2	92.3	100,300 *
36	69.8	91.5	90,600
38	68.5	90.7	81,600
40	67.1	89.9	73,800
45	63.6	87.5	58,000
50	59.9	84.7	46,000
55	56.1	81.4	36,600
60	52.1	77.7	29,000
65	47.9	73.3	22,700
70	43.4	68.2	17,500
75	38.4	62.3	13,100
100 Ft. BOOM			
18	82.6	106.5	193,700 *
19	82.0	106.4	188,000 *
20	81.4	106.2	182,400 *
22	80.2	105.9	171,900 *
24	79.1	105.5	159,900 *
26	77.9	105.0	144,300 *
28	76.7	104.5	131,200 *
30	75.5	104.0	120,000 *
32	74.4	103.4	110,300 *
34	73.2	102.8	101,200 *
36	71.9	102.2	92,100
38	70.7	101.5	83,100
40	69.5	100.7	75,200
45	66.4	98.6	59,300
50	63.2	96.1	47,200
55	59.9	93.3	37,800
60	56.5	90.1	30,200
65	53.0	86.4	23,900
70	49.2	82.3	18,600
75	45.3	77.5	14,200
80	41.0	72.0	10,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	184,200 *
20	82.2	116.3	178,500 *
22	81.1	116.0	167,900 *
24	80.1	115.7	158,000 *
26	79.0	115.3	146,600 *
28	78.0	114.8	133,100 *
30	76.9	114.4	121,300 *
32	75.8	113.8	110,900 *
34	74.7	113.3	101,700 *
36	73.6	112.7	92,900
38	72.5	112.0	83,800
40	71.4	111.4	76,000
45	68.7	109.5	60,100
50	65.8	107.3	48,000
55	62.9	104.8	38,600
60	59.9	102.0	31,000
65	56.8	98.8	24,700
70	53.6	95.2	19,500
75	50.3	91.2	15,000
80	46.8	86.6	11,200
120 Ft. BOOM			
20	82.9	126.4	167,400 *
22	81.9	126.2	158,500 *
24	80.9	125.8	150,200 *
26	79.9	125.5	142,500 *
28	79.0	125.1	130,500 *
30	78.0	124.6	119,100 *
32	77.0	124.2	109,200 *
34	76.0	123.6	100,500 *
36	75.0	123.1	92,900 *
38	74.0	122.5	84,900
40	73.0	121.9	77,000
45	70.5	120.2	61,000
50	68.0	118.2	49,000
55	65.3	116.0	39,500
60	62.7	113.5	31,900
65	59.9	110.6	25,600
70	57.1	107.5	20,400
75	54.2	104.0	15,900
80	51.2	100.0	12,100

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

130 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	150,900 *
24	81.6	136.0	142,800 *
26	80.7	135.6	135,300 *
28	79.8	135.3	128,100 *
30	78.9	134.9	116,700 *
32	78.0	134.4	106,900 *
34	77.1	134.0	98,300 *
36	76.2	133.5	90,800 *
38	75.3	132.9	84,100 *
40	74.4	132.4	77,700 *
45	72.1	130.8	61,700 *
50	69.7	129.0	49,600 *
55	67.4	127.0	40,100 *
60	64.9	124.7	32,500 *
65	62.5	122.1	26,200 *
70	59.9	119.3	20,900 *
75	57.3	116.2	16,500 *
80	54.7	112.7	12,600 *
140 Ft. BOOM			
24	82.2	146.1	134,500 *
26	81.4	145.8	128,000 *
28	80.6	145.4	121,800 *
30	79.7	145.1	113,500 *
32	78.9	144.7	103,900 *
34	78.1	144.2	95,500 *
36	77.2	143.8	88,100 *
38	76.4	143.3	81,600 *
40	75.5	142.7	75,700 *
45	73.4	141.3	62,200 *
50	71.3	139.6	50,100 *
55	69.1	137.8	40,500 *
60	66.8	135.7	32,900 *
65	64.6	133.4	26,600 *
70	62.3	130.8	21,300 *
75	59.9	128.0	16,800 *
80	57.5	124.8	12,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	129,400 *
26	82.0	155.9	122,900 *
28	81.2	155.6	116,800 *
30	80.4	155.2	110,900 *
32	79.7	154.9	101,400 *
34	78.9	154.5	93,100 *
36	78.1	154.0	85,800 *
38	77.3	153.6	79,400 *
40	76.5	153.1	73,600 *
45	74.5	151.7	61,500 *
50	72.5	150.2	50,400 *
55	70.5	148.5	40,900 *
60	68.5	146.5	33,200 *
65	66.4	144.4	26,900 *
70	64.3	142.0	21,600 *
75	62.1	139.5	17,100 *
80	59.9	136.6	13,200 *
160 Ft. BOOM			
26	82.5	166.0	118,000 *
28	81.8	165.7	111,900 *
30	81.0	165.4	106,200 *
32	80.3	165.0	98,800 *
34	79.6	164.7	90,600 *
36	78.8	164.3	83,500 *
38	78.1	163.8	77,100 *
40	77.4	163.4	71,500 *
45	75.5	162.1	59,600 *
50	73.7	160.7	50,200 *
55	71.8	159.1	41,300 *
60	69.9	157.3	33,500 *
65	68.0	155.3	27,200 *
70	66.0	153.1	21,900 *
75	64.0	150.7	17,400 *
80	62.0	148.1	13,500 *
85	59.9	145.3	10,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	110,400 *
28	82.2	175.8	104,600 *
30	81.6	175.5	99,200 *
32	80.9	175.2	94,100 *
34	80.2	174.8	89,000 *
36	79.5	174.5	81,900 *
38	78.8	174.0	75,500 *
40	78.1	173.6	69,900 *
45	76.4	172.4	58,100 *
50	74.7	171.1	48,800 *
55	72.9	169.6	41,200 *
60	71.1	167.9	33,700 *
65	69.3	166.1	27,400 *
70	67.5	164.0	22,100 *
75	65.7	161.8	17,600 *
80	63.8	159.4	13,700 *
85	61.9	156.8	10,300 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

140 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	277,900 *
15	81.8	76.6	267,900 *
16	81.0	76.5	253,400 *
17	80.2	76.3	236,300 *
18	79.3	76.1	221,000 *
19	78.5	75.9	207,200 *
20	77.7	75.6	194,700 *
22	76.0	75.1	172,800 *
24	74.3	74.5	154,400 *
26	72.6	73.9	138,600 *
28	70.8	73.2	125,000 *
30	69.1	72.4	113,200 *
32	67.3	71.5	102,700 *
34	65.5	70.6	93,200
36	63.6	69.6	82,900
38	61.8	68.5	74,100
40	59.9	67.3	66,400
45	54.9	64.0	50,800
50	49.7	59.9	39,000
55	43.9	55.0	29,800
60	37.5	48.9	22,300
80 Ft. BOOM			
15	82.9	86.8	243,300 *
16	82.1	86.6	234,800 *
17	81.4	86.4	227,000 *
18	80.7	86.3	219,700 *
19	80.0	86.1	209,000 *
20	79.2	85.9	196,500 *
22	77.8	85.4	174,700 *
24	76.3	84.9	156,400 *
26	74.8	84.4	140,700 *
28	73.3	83.8	127,100 *
30	71.8	83.1	115,200 *
32	70.3	82.3	104,800 *
34	68.7	81.6	95,500 *
36	67.2	80.7	85,700
38	65.6	79.8	76,800
40	64.0	78.8	69,000
45	59.9	76.0	53,400
50	55.6	72.7	41,500
55	51.1	68.8	32,200
60	46.2	64.2	24,700
65	40.9	58.8	18,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	225,600 *
17	82.4	96.6	218,400 *
18	81.7	96.4	211,300 *
19	81.1	96.2	204,800 *
20	80.4	96.1	197,700 *
22	79.1	95.7	176,000 *
24	77.8	95.2	157,700 *
26	76.5	94.7	142,100 *
28	75.2	94.2	128,500 *
30	73.9	93.6	116,700 *
32	72.5	93.0	106,300 *
34	71.2	92.3	97,100 *
36	69.8	91.5	87,600
38	68.5	90.7	78,700
40	67.1	89.9	70,900
45	63.6	87.5	55,200
50	59.9	84.7	43,400
55	56.1	81.4	34,000
60	52.1	77.7	26,500
65	47.9	73.3	20,300
70	43.4	68.2	15,200
75	38.4	62.3	10,800
100 Ft. BOOM			
18	82.6	106.5	191,800 *
19	82.0	106.4	186,000 *
20	81.4	106.2	180,500 *
22	80.2	105.9	170,000 *
24	79.1	105.5	156,100 *
26	77.9	105.0	140,600 *
28	76.7	104.5	127,600 *
30	75.5	104.0	116,500 *
32	74.4	103.4	106,900 *
34	73.2	102.8	98,200 *
36	71.9	102.2	89,300
38	70.7	101.5	80,300
40	69.5	100.7	72,500
45	66.4	98.6	56,700
50	63.2	96.1	44,700
55	59.9	93.3	35,400
60	56.5	90.1	27,800
65	53.0	86.4	21,600
70	49.2	82.3	16,400
75	45.3	77.5	12,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	182,400 *
20	82.2	116.3	176,700 *
22	81.1	116.0	166,100 *
24	80.1	115.7	156,200 *
26	79.0	115.3	143,500 *
28	78.0	114.8	130,100 *
30	76.9	114.4	118,300 *
32	75.8	113.8	108,000 *
34	74.7	113.3	98,800 *
36	73.6	112.7	90,200
38	72.5	112.0	81,200
40	71.4	111.4	73,400
45	68.7	109.5	57,600
50	65.8	107.3	45,700
55	62.9	104.8	36,300
60	59.9	102.0	28,800
65	56.8	98.8	22,500
70	53.6	95.2	17,400
75	50.3	91.2	12,900
120 Ft. BOOM			
20	82.9	126.4	165,700 *
22	81.9	126.2	156,800 *
24	80.9	125.8	148,500 *
26	79.9	125.5	140,500 *
28	79.0	125.1	127,200 *
30	78.0	124.6	115,800 *
32	77.0	124.2	106,000 *
34	76.0	123.6	97,400 *
36	75.0	123.1	89,900 *
38	74.0	122.5	82,300
40	73.0	121.9	74,500
45	70.5	120.2	58,700
50	68.0	118.2	46,700
55	65.3	116.0	37,300
60	62.7	113.5	29,700
65	59.9	110.6	23,500
70	57.1	107.5	18,300
75	54.2	104.0	13,900
80	51.2	100.0	10,100

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

140 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	149,300 *
24	81.6	136.0	141,200 *
26	80.7	135.6	133,600 *
28	79.8	135.3	124,800 *
30	78.9	134.9	113,500 *
32	78.0	134.4	103,800 *
34	77.1	134.0	95,300 *
36	76.2	133.5	87,800 *
38	75.3	132.9	81,200 *
40	74.4	132.4	75,300 *
45	72.1	130.8	59,400 *
50	69.7	129.0	47,400 *
55	67.4	127.0	38,000 *
60	64.9	124.7	30,400 *
65	62.5	122.1	24,200 *
70	59.9	119.3	18,900 *
75	57.3	116.2	14,500 *
80	54.7	112.7	10,700 *
140 Ft. BOOM			
24	82.2	146.1	133,000 *
26	81.4	145.8	126,500 *
28	80.6	145.4	120,100 *
30	79.7	145.1	110,400 *
32	78.9	144.7	100,900 *
34	78.1	144.2	92,600 *
36	77.2	143.8	85,200 *
38	76.4	143.3	78,700 *
40	75.5	142.7	72,900 *
45	73.4	141.3	60,000 *
50	71.3	139.6	47,900 *
55	69.1	137.8	38,500 *
60	66.8	135.7	30,900 *
65	64.6	133.4	24,600 *
70	62.3	130.8	19,300 *
75	59.9	128.0	14,900 *
80	57.5	124.8	11,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	127,900 *
26	82.0	155.9	121,400 *
28	81.2	155.6	115,200 *
30	80.4	155.2	107,900 *
32	79.7	154.9	98,400 *
34	78.9	154.5	90,200 *
36	78.1	154.0	83,000 *
38	77.3	153.6	76,600 *
40	76.5	153.1	70,900 *
45	74.5	151.7	58,900 *
50	72.5	150.2	48,400 *
55	70.5	148.5	38,900 *
60	68.5	146.5	31,300 *
65	66.4	144.4	25,000 *
70	64.3	142.0	19,700 *
75	62.1	139.5	15,300 *
80	59.9	136.6	11,400 *
160 Ft. BOOM			
26	82.5	166.0	116,500 *
28	81.8	165.7	110,500 *
30	81.0	165.4	104,700 *
32	80.3	165.0	95,900 *
34	79.6	164.7	87,800 *
36	78.8	164.3	80,700 *
38	78.1	163.8	74,400 *
40	77.4	163.4	68,800 *
45	75.5	162.1	57,100 *
50	73.7	160.7	47,700 *
55	71.8	159.1	39,300 *
60	69.9	157.3	31,600 *
65	68.0	155.3	25,400 *
70	66.0	153.1	20,100 *
75	64.0	150.7	15,600 *
80	62.0	148.1	11,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	108,900 *
28	82.2	175.8	103,200 *
30	81.6	175.5	97,800 *
32	80.9	175.2	92,700 *
34	80.2	174.8	86,200 *
36	79.5	174.5	79,100 *
38	78.8	174.0	72,900 *
40	78.1	173.6	67,300 *
45	76.4	172.4	55,600 *
50	74.7	171.1	46,400 *
55	72.9	169.6	38,800 *
60	71.1	167.9	31,900 *
65	69.3	166.1	25,600 *
70	67.5	164.0	20,300 *
75	65.7	161.8	15,800 *
80	63.8	159.4	12,000 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

150 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	276,000 *
15	81.8	76.6	266,100 *
16	81.0	76.5	250,400 *
17	80.2	76.3	233,400 *
18	79.3	76.1	218,200 *
19	78.5	75.9	204,400 *
20	77.7	75.6	191,900 *
22	76.0	75.1	170,100 *
24	74.3	74.5	151,800 *
26	72.6	73.9	136,100 *
28	70.8	73.2	122,500 *
30	69.1	72.4	110,700 *
32	67.3	71.5	100,200 *
34	65.5	70.6	90,700
36	63.6	69.6	80,500
38	61.8	68.5	71,800
40	59.9	67.3	64,100
45	54.9	64.0	48,700
50	49.7	59.9	37,000
55	43.9	55.0	27,800
60	37.5	48.9	20,500
80 Ft. BOOM			
15	82.9	86.8	241,700 *
16	82.1	86.6	233,100 *
17	81.4	86.4	225,400 *
18	80.7	86.3	218,000 *
19	80.0	86.1	206,400 *
20	79.2	85.9	193,900 *
22	77.8	85.4	172,200 *
24	76.3	84.9	153,900 *
26	74.8	84.4	138,300 *
28	73.3	83.8	124,700 *
30	71.8	83.1	112,900 *
32	70.3	82.3	102,500 *
34	68.7	81.6	93,300 *
36	67.2	80.7	83,500
38	65.6	79.8	74,600
40	64.0	78.8	66,900
45	59.9	76.0	51,400
50	55.6	72.7	39,600
55	51.1	68.8	30,400
60	46.2	64.2	23,000
65	40.9	58.8	16,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	224,100 *
17	82.4	96.6	216,900 *
18	81.7	96.4	209,800 *
19	81.1	96.2	203,300 *
20	80.4	96.1	195,200 *
22	79.1	95.7	173,600 *
24	77.8	95.2	155,400 *
26	76.5	94.7	139,800 *
28	75.2	94.2	126,300 *
30	73.9	93.6	114,500 *
32	72.5	93.0	104,200 *
34	71.2	92.3	95,000 *
36	69.8	91.5	85,600
38	68.5	90.7	76,700
40	67.1	89.9	69,000
45	63.6	87.5	53,400
50	59.9	84.7	41,600
55	56.1	81.4	32,300
60	52.1	77.7	24,900
65	47.9	73.3	18,800
70	43.4	68.2	13,600
100 Ft. BOOM			
18	82.6	106.5	190,400 *
19	82.0	106.4	184,600 *
20	81.4	106.2	179,100 *
22	80.2	105.9	168,600 *
24	79.1	105.5	153,400 *
26	77.9	105.0	138,100 *
28	76.7	104.5	125,200 *
30	75.5	104.0	114,100 *
32	74.4	103.4	104,600 *
34	73.2	102.8	96,200 *
36	71.9	102.2	87,300
38	70.7	101.5	78,400
40	69.5	100.7	70,600
45	66.4	98.6	55,000
50	63.2	96.1	43,100
55	59.9	93.3	33,800
60	56.5	90.1	26,300
65	53.0	86.4	20,100
70	49.2	82.3	15,000
75	45.3	77.5	10,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	181,100 *
20	82.2	116.3	175,400 *
22	81.1	116.0	164,800 *
24	80.1	115.7	154,900 *
26	79.0	115.3	141,200 *
28	78.0	114.8	127,800 *
30	76.9	114.4	116,300 *
32	75.8	113.8	106,000 *
34	74.7	113.3	96,900 *
36	73.6	112.7	88,300
38	72.5	112.0	79,400
40	71.4	111.4	71,600
45	68.7	109.5	56,000
50	65.8	107.3	44,100
55	62.9	104.8	34,800
60	59.9	102.0	27,300
65	56.8	98.8	21,200
70	53.6	95.2	16,000
75	50.3	91.2	11,600
120 Ft. BOOM			
20	82.9	126.4	164,500 *
22	81.9	126.2	155,600 *
24	80.9	125.8	147,300 *
26	79.9	125.5	138,100 *
28	79.0	125.1	124,900 *
30	78.0	124.6	113,600 *
32	77.0	124.2	103,900 *
34	76.0	123.6	95,400 *
36	75.0	123.1	87,800 *
38	74.0	122.5	80,600
40	73.0	121.9	72,800
45	70.5	120.2	57,100
50	68.0	118.2	45,200
55	65.3	116.0	35,900
60	62.7	113.5	28,400
65	59.9	110.6	22,200
70	57.1	107.5	17,000
75	54.2	104.0	12,600

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
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777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

150 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	148,100 *
24	81.6	136.0	140,100 *
26	80.7	135.6	132,500 *
28	79.8	135.3	122,600 *
30	78.9	134.9	111,400 *
32	78.0	134.4	101,700 *
34	77.1	134.0	93,300 *
36	76.2	133.5	85,900 *
38	75.3	132.9	79,300 *
40	74.4	132.4	73,400 *
45	72.1	130.8	57,900
50	69.7	129.0	46,000
55	67.4	127.0	36,600
60	64.9	124.7	29,100
65	62.5	122.1	22,900
70	59.9	119.3	17,700
75	57.3	116.2	13,300
140 Ft. BOOM			
24	82.2	146.1	131,900 *
26	81.4	145.8	125,400 *
28	80.6	145.4	119,200 *
30	79.7	145.1	108,400 *
32	78.9	144.7	98,900 *
34	78.1	144.2	90,600 *
36	77.2	143.8	83,400 *
38	76.4	143.3	76,900 *
40	75.5	142.7	71,100 *
45	73.4	141.3	58,500
50	71.3	139.6	46,600
55	69.1	137.8	37,200
60	66.8	135.7	29,600
65	64.6	133.4	23,400
70	62.3	130.8	18,200
75	59.9	128.0	13,800
80	57.5	124.8	10,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	126,800 *
26	82.0	155.9	120,300 *
28	81.2	155.6	114,200 *
30	80.4	155.2	105,800 *
32	79.7	154.9	96,500 *
34	78.9	154.5	88,400 *
36	78.1	154.0	81,200 *
38	77.3	153.6	74,900 *
40	76.5	153.1	69,200 *
45	74.5	151.7	57,300 *
50	72.5	150.2	47,000
55	70.5	148.5	37,600
60	68.5	146.5	30,000
65	66.4	144.4	23,800
70	64.3	142.0	18,600
75	62.1	139.5	14,200
80	59.9	136.6	10,400
160 Ft. BOOM			
26	82.5	166.0	115,500 *
28	81.8	165.7	109,500 *
30	81.0	165.4	103,200 *
32	80.3	165.0	94,000 *
34	79.6	164.7	86,000 *
36	78.8	164.3	79,000 *
38	78.1	163.8	72,700 *
40	77.4	163.4	67,200 *
45	75.5	162.1	55,500 *
50	73.7	160.7	46,200 *
55	71.8	159.1	38,100
60	69.9	157.3	30,500
65	68.0	155.3	24,200
70	66.0	153.1	19,000
75	64.0	150.7	14,600
80	62.0	148.1	10,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	108,000 *
28	82.2	175.8	102,300 *
30	81.6	175.5	96,800 *
32	80.9	175.2	91,700 *
34	80.2	174.8	84,400 *
36	79.5	174.5	77,400 *
38	78.8	174.0	71,200 *
40	78.1	173.6	65,600 *
45	76.4	172.4	54,100 *
50	74.7	171.1	44,900 *
55	72.9	169.6	37,400 *
60	71.1	167.9	30,700
65	69.3	166.1	24,500
70	67.5	164.0	19,200
75	65.7	161.8	14,800
80	63.8	159.4	11,000



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

160 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	273,400 *
15	81.8	76.6	263,500 *
16	81.0	76.5	246,200 *
17	80.2	76.3	229,300 *
18	79.3	76.1	214,000 *
19	78.5	75.9	200,300 *
20	77.7	75.6	187,900 *
22	76.0	75.1	166,100 *
24	74.3	74.5	147,800 *
26	72.6	73.9	132,200 *
28	70.8	73.2	118,700 *
30	69.1	72.4	106,900 *
32	67.3	71.5	96,500 *
34	65.5	70.6	87,000
36	63.6	69.6	77,000
38	61.8	68.5	68,300
40	59.9	67.3	60,700
45	54.9	64.0	45,400
50	49.7	59.9	33,900
55	43.9	55.0	24,800
60	37.5	48.9	17,500
80 Ft. BOOM			
15	82.9	86.8	239,300 *
16	82.1	86.6	230,800 *
17	81.4	86.4	223,000 *
18	80.7	86.3	215,600 *
19	80.0	86.1	202,500 *
20	79.2	85.9	190,100 *
22	77.8	85.4	168,400 *
24	76.3	84.9	150,200 *
26	74.8	84.4	134,600 *
28	73.3	83.8	121,100 *
30	71.8	83.1	109,400 *
32	70.3	82.3	99,000 *
34	68.7	81.6	89,800 *
36	67.2	80.7	80,200
38	65.6	79.8	71,400
40	64.0	78.8	63,800
45	59.9	76.0	48,400
50	55.6	72.7	36,700
55	51.1	68.8	27,600
60	46.2	64.2	20,200
65	40.9	58.8	14,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	221,900 *
17	82.4	96.6	214,600 *
18	81.7	96.4	207,500 *
19	81.1	96.2	201,100 *
20	80.4	96.1	191,600 *
22	79.1	95.7	170,000 *
24	77.8	95.2	151,800 *
26	76.5	94.7	136,300 *
28	75.2	94.2	122,900 *
30	73.9	93.6	111,200 *
32	72.5	93.0	100,800 *
34	71.2	92.3	91,700 *
36	69.8	91.5	82,400
38	68.5	90.7	73,600
40	67.1	89.9	66,000
45	63.6	87.5	50,600
50	59.9	84.7	38,900
55	56.1	81.4	29,700
60	52.1	77.7	22,300
65	47.9	73.3	16,200
70	43.4	68.2	11,200
100 Ft. BOOM			
18	82.6	106.5	188,300 *
19	82.0	106.4	182,500 *
20	81.4	106.2	177,000 *
22	80.2	105.9	166,500 *
24	79.1	105.5	149,400 *
26	77.9	105.0	134,200 *
28	76.7	104.5	121,400 *
30	75.5	104.0	110,500 *
32	74.4	103.4	101,000 *
34	73.2	102.8	92,700 *
36	71.9	102.2	84,300
38	70.7	101.5	75,500
40	69.5	100.7	67,800
45	66.4	98.6	52,300
50	63.2	96.1	40,500
55	59.9	93.3	31,300
60	56.5	90.1	23,800
65	53.0	86.4	17,700
70	49.2	82.3	12,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	179,100 *
20	82.2	116.3	173,400 *
22	81.1	116.0	162,800 *
24	80.1	115.7	153,000 *
26	79.0	115.3	137,500 *
28	78.0	114.8	124,200 *
30	76.9	114.4	112,800 *
32	75.8	113.8	103,000 *
34	74.7	113.3	93,900 *
36	73.6	112.7	85,400
38	72.5	112.0	76,600
40	71.4	111.4	68,900
45	68.7	109.5	53,400
50	65.8	107.3	41,600
55	62.9	104.8	32,400
60	59.9	102.0	25,000
65	56.8	98.8	18,900
70	53.6	95.2	13,800
120 Ft. BOOM			
20	82.9	126.4	162,700 *
22	81.9	126.2	153,800 *
24	80.9	125.8	145,500 *
26	79.9	125.5	134,500 *
28	79.0	125.1	121,400 *
30	78.0	124.6	110,200 *
32	77.0	124.2	100,600 *
34	76.0	123.6	92,100 *
36	75.0	123.1	84,700 *
38	74.0	122.5	77,900
40	73.0	121.9	70,200
45	70.5	120.2	54,600
50	68.0	118.2	42,800
55	65.3	116.0	33,600
60	62.7	113.5	26,100
65	59.9	110.6	20,000
70	57.1	107.5	14,900
75	54.2	104.0	10,500

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

160 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	146,400 *
24	81.6	136.0	138,300 *
26	80.7	135.6	130,600 *
28	79.8	135.3	119,100 *
30	78.9	134.9	108,100 *
32	78.0	134.4	98,500 *
34	77.1	134.0	90,200 *
36	76.2	133.5	82,800 *
38	75.3	132.9	76,300 *
40	74.4	132.4	70,400 *
45	72.1	130.8	55,500
50	69.7	129.0	43,700
55	67.4	127.0	34,400
60	64.9	124.7	26,900
65	62.5	122.1	20,800
70	59.9	119.3	15,600
75	57.3	116.2	11,300
140 Ft. BOOM			
24	82.2	146.1	130,300 *
26	81.4	145.8	123,700 *
28	80.6	145.4	116,000 *
30	79.7	145.1	105,100 *
32	78.9	144.7	95,700 *
34	78.1	144.2	87,500 *
36	77.2	143.8	80,300 *
38	76.4	143.3	74,000 *
40	75.5	142.7	68,200 *
45	73.4	141.3	56,200 *
50	71.3	139.6	44,300
55	69.1	137.8	35,000
60	66.8	135.7	27,500
65	64.6	133.4	21,300
70	62.3	130.8	16,200
75	59.9	128.0	11,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	125,200 *
26	82.0	155.9	118,700 *
28	81.2	155.6	112,500 *
30	80.4	155.2	102,700 *
32	79.7	154.9	93,400 *
34	78.9	154.5	85,400 *
36	78.1	154.0	78,300 *
38	77.3	153.6	72,000 *
40	76.5	153.1	66,400 *
45	74.5	151.7	54,600 *
50	72.5	150.2	44,900
55	70.5	148.5	35,500
60	68.5	146.5	28,000
65	66.4	144.4	21,800
70	64.3	142.0	16,600
75	62.1	139.5	12,200
160 Ft. BOOM			
26	82.5	166.0	113,900 *
28	81.8	165.7	107,900 *
30	81.0	165.4	100,100 *
32	80.3	165.0	91,000 *
34	79.6	164.7	83,000 *
36	78.8	164.3	76,100 *
38	78.1	163.8	69,900 *
40	77.4	163.4	64,400 *
45	75.5	162.1	52,800 *
50	73.7	160.7	43,600 *
55	71.8	159.1	36,000
60	69.9	157.3	28,500
65	68.0	155.3	22,300
70	66.0	153.1	17,100
75	64.0	150.7	12,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	106,500 *
28	82.2	175.8	100,700 *
30	81.6	175.5	95,300 *
32	80.9	175.2	89,400 *
34	80.2	174.8	81,500 *
36	79.5	174.5	74,600 *
38	78.8	174.0	68,400 *
40	78.1	173.6	62,900 *
45	76.4	172.4	51,500 *
50	74.7	171.1	42,300 *
55	72.9	169.6	34,900 *
60	71.1	167.9	28,700 *
65	69.3	166.1	22,600
70	67.5	164.0	17,400
75	65.7	161.8	13,000



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

170 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	271,400 *
15	81.8	76.6	261,200 *
16	81.0	76.5	242,200 *
17	80.2	76.3	225,300 *
18	79.3	76.1	210,200 *
19	78.5	75.9	196,500 *
20	77.7	75.6	184,100 *
22	76.0	75.1	162,400 *
24	74.3	74.5	144,200 *
26	72.6	73.9	128,600 *
28	70.8	73.2	115,200 *
30	69.1	72.4	103,400 *
32	67.3	71.5	93,100 *
34	65.5	70.6	83,700 *
36	63.6	69.6	73,700 *
38	61.8	68.5	65,100 *
40	59.9	67.3	57,600 *
45	54.9	64.0	42,500 *
50	49.7	59.9	31,000 *
55	43.9	55.0	22,000 *
60	37.5	48.9	14,800 *
80 Ft. BOOM			
15	82.9	86.8	237,400 *
16	82.1	86.6	228,900 *
17	81.4	86.4	221,100 *
18	80.7	86.3	212,500 *
19	80.0	86.1	198,900 *
20	79.2	85.9	186,500 *
22	77.8	85.4	165,000 *
24	76.3	84.9	146,800 *
26	74.8	84.4	131,200 *
28	73.3	83.8	117,800 *
30	71.8	83.1	106,100 *
32	70.3	82.3	95,800 *
34	68.7	81.6	86,600 *
36	67.2	80.7	77,100 *
38	65.6	79.8	68,400 *
40	64.0	78.8	60,900 *
45	59.9	76.0	45,600 *
50	55.6	72.7	34,100 *
55	51.1	68.8	25,000 *
60	46.2	64.2	17,700 *
65	40.9	58.8	11,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	220,200 *
17	82.4	96.6	212,900 *
18	81.7	96.4	205,800 *
19	81.1	96.2	199,400 *
20	80.4	96.1	188,100 *
22	79.1	95.7	166,700 *
24	77.8	95.2	148,600 *
26	76.5	94.7	133,100 *
28	75.2	94.2	119,700 *
30	73.9	93.6	108,100 *
32	72.5	93.0	97,800 *
34	71.2	92.3	88,700 *
36	69.8	91.5	79,500 *
38	68.5	90.7	70,800 *
40	67.1	89.9	63,300 *
45	63.6	87.5	48,000 *
50	59.9	84.7	36,400 *
55	56.1	81.4	27,300 *
60	52.1	77.7	20,000 *
65	47.9	73.3	14,000 *
100 Ft. BOOM			
18	82.6	106.5	186,700 *
19	82.0	106.4	180,900 *
20	81.4	106.2	175,400 *
22	80.2	105.9	163,900 *
24	79.1	105.5	145,700 *
26	77.9	105.0	130,700 *
28	76.7	104.5	118,000 *
30	75.5	104.0	107,200 *
32	74.4	103.4	97,800 *
34	73.2	102.8	89,500 *
36	71.9	102.2	81,600 *
38	70.7	101.5	72,800 *
40	69.5	100.7	65,200 *
45	66.4	98.6	49,800 *
50	63.2	96.1	38,100 *
55	59.9	93.3	29,000 *
60	56.5	90.1	21,700 *
65	53.0	86.4	15,600 *
70	49.2	82.3	10,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	177,600 *
20	82.2	116.3	171,900 *
22	81.1	116.0	161,300 *
24	80.1	115.7	149,900 *
26	79.0	115.3	134,100 *
28	78.0	114.8	120,900 *
30	76.9	114.4	109,600 *
32	75.8	113.8	99,900 *
34	74.7	113.3	91,100 *
36	73.6	112.7	82,800 *
38	72.5	112.0	74,100 *
40	71.4	111.4	66,400 *
45	68.7	109.5	51,000 *
50	65.8	107.3	39,400 *
55	62.9	104.8	30,200 *
60	59.9	102.0	22,900 *
65	56.8	98.8	16,800 *
70	53.6	95.2	11,800 *
120 Ft. BOOM			
20	82.9	126.4	161,400 *
22	81.9	126.2	152,400 *
24	80.9	125.8	144,100 *
26	79.9	125.5	131,200 *
28	79.0	125.1	118,200 *
30	78.0	124.6	107,100 *
32	77.0	124.2	97,600 *
34	76.0	123.6	89,200 *
36	75.0	123.1	81,800 *
38	74.0	122.5	75,200 *
40	73.0	121.9	67,800 *
45	70.5	120.2	52,400 *
50	68.0	118.2	40,700 *
55	65.3	116.0	31,500 *
60	62.7	113.5	24,100 *
65	59.9	110.6	18,000 *
70	57.1	107.5	13,000 *



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

170 Ft. Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	145,100 *
24	81.6	136.0	137,000 *
26	80.7	135.6	129,000 *
28	79.8	135.3	116,000 *
30	78.9	134.9	105,000 *
32	78.0	134.4	95,600 *
34	77.1	134.0	87,300 *
36	76.2	133.5	80,000 *
38	75.3	132.9	73,600 *
40	74.4	132.4	67,800 *
45	72.1	130.8	53,300
50	69.7	129.0	41,600
55	67.4	127.0	32,400
60	64.9	124.7	25,000
65	62.5	122.1	18,900
70	59.9	119.3	13,800
140 Ft. BOOM			
24	82.2	146.1	129,100 *
26	81.4	145.8	122,500 *
28	80.6	145.4	113,000 *
30	79.7	145.1	102,200 *
32	78.9	144.7	92,900 *
34	78.1	144.2	84,800 *
36	77.2	143.8	77,700 *
38	76.4	143.3	71,300 *
40	75.5	142.7	65,700 *
45	73.4	141.3	53,700 *
50	71.3	139.6	42,300
55	69.1	137.8	33,100
60	66.8	135.7	25,700
65	64.6	133.4	19,500
70	62.3	130.8	14,400
75	59.9	128.0	10,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
24	82.8	156.2	124,000 *
26	82.0	155.9	117,500 *
28	81.2	155.6	110,500 *
30	80.4	155.2	99,800 *
32	79.7	154.9	90,700 *
34	78.9	154.5	82,700 *
36	78.1	154.0	75,700 *
38	77.3	153.6	69,400 *
40	76.5	153.1	63,900 *
45	74.5	151.7	52,200 *
50	72.5	150.2	42,900 *
55	70.5	148.5	33,700
60	68.5	146.5	26,200
65	66.4	144.4	20,100
70	64.3	142.0	15,000
75	62.1	139.5	10,600
160 Ft. BOOM			
26	82.5	166.0	112,800 *
28	81.8	165.7	106,700 *
30	81.0	165.4	97,300 *
32	80.3	165.0	88,300 *
34	79.6	164.7	80,400 *
36	78.8	164.3	73,500 *
38	78.1	163.8	67,400 *
40	77.4	163.4	62,000 *
45	75.5	162.1	50,500 *
50	73.7	160.7	41,400 *
55	71.8	159.1	33,900 *
60	69.9	157.3	26,800
65	68.0	155.3	20,600
70	66.0	153.1	15,500
75	64.0	150.7	11,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
26	82.9	176.1	105,400 *
28	82.2	175.8	99,600 *
30	81.6	175.5	94,200 *
32	80.9	175.2	86,800 *
34	80.2	174.8	78,900 *
36	79.5	174.5	72,000 *
38	78.8	174.0	66,000 *
40	78.1	173.6	60,500 *
45	76.4	172.4	49,200 *
50	74.7	171.1	40,200 *
55	72.9	169.6	32,800 *
60	71.1	167.9	26,600 *
65	69.3	166.1	20,900
70	67.5	164.0	15,800
75	65.7	161.8	11,400