



Liftcrane Boom Capacities

Boom No. 49A-44 With Heavy Lift Top
169,200 Lb. (2250) Crane Counterweight
or 167,000 Lb. (M-250) Crane Counterweight
60,000 Lb. Carbody Counterweight
225,000 Lb. Wheeled Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

Meets
ANSI B30.5
Requirements

MAX-ER 225
On 2250
or M-250

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 (*).

Wheeled counterweight must be attached to support beam and MAX-ER mode must be selected to operate. Swing requires proper position of counterweight wheels when contacting ground. Lower boom to ground before removing wheeled counterweight.

Upper boom point capacity for liftcrane service with single part whip line is 30,000 Lbs. or 60,000 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacities.

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 and mast up and front tumbler properly blocked so that centerline of idler tumbler becomes tipping fulcrum. Travel drive must be to rear of machine. Swing is limited to that sector shown on Operating Range Diagram **No. 7582-A** or **No. 8029-A**. Refer to boom rigging **No. 175604** or **No. 192107**, Wire Rope Specification chart **No. 7581-D** and Counterweight Arrangement chart **No. 7692-A** or **No. 8026-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 MAX-ER 225, 30 Ft. 9 in. crawlers, 48 in. treads, 28 Ft. retractable gantry, 130 Ft. mast, 8 part boom hoist reeving, four 1-1/2 in. boom pendants or boom support straps, 169,200 Lb. (2250) crane counterweight or 167,000 Lb. (M-250) crane counterweight, two 30,000 Lb. carbody counterweights and 225,000 Lb. wheeled counterweight.

WARNING: Check amount of wheeled counterweight on machine before use of this chart. Refer to Counterweight Assembly.

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

Maximum Boom and Jib Lengths Lifted Unassisted Over Front of Blocked Crawlers	
Boom Length	Jib No. 132
340 Ft.	---
340 Ft.	120 Ft.
Load block, hook and weight ball on ground at start.	

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 132
40 Ft.	6,400 Lbs.
60 Ft.	8,200 Lbs.
80 Ft.	10,300 Lbs.
100 Ft.	12,800 Lbs.
120 Ft.	15,300 Lbs.



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
26	82.7	148.5	500,000 *
28	81.9	148.2	499,000 *
30	81.1	147.9	498,000 *
32	80.2	147.5	497,000 *
34	79.4	147.1	482,100 *
36	78.6	146.6	455,600 *
38	77.7	146.2	431,700 *
40	76.9	145.7	410,100 *
42	76.0	145.2	390,500 *
44	75.2	144.6	372,500 *
46	74.3	144.0	356,100 *
48	73.5	143.4	340,900 *
50	72.6	142.7	327,000 *
55	70.4	141.0	296,300 *
60	68.2	138.9	270,600 *
65	66.0	136.7	248,700 *
70	63.7	134.2	229,800 *
75	61.4	131.5	213,400 *
80	59.0	128.5	198,900 *
85	56.5	125.2	186,200 *
90	54.0	121.6	174,800 *
95	51.4	117.6	164,500 *
100	48.7	113.2	155,300 *
105	45.9	108.4	146,900 *
110	42.9	103.1	139,200 *
115	39.7	97.2	130,300 *
120	36.3	90.5	122,100 *
125	32.5	82.8	114,400 *
130	28.3	73.9	107,100 *
160 Ft. BOOM			
28	82.9	168.4	498,000 *
30	82.2	168.1	497,000 *
32	81.5	167.8	496,000 *
34	80.7	167.5	481,000 *
36	80.0	167.1	454,500 *
38	79.3	166.7	430,600 *
40	78.6	166.2	409,100 *
42	77.8	165.8	389,400 *
44	77.1	165.3	371,500 *
46	76.3	164.8	355,100 *
48	75.6	164.3	339,900 *
50	74.9	163.7	326,000 *
55	73.0	162.1	295,400 *
60	71.1	160.4	269,700 *
65	69.2	158.5	247,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	67.2	156.4	228,900 *
75	65.3	154.1	212,500 *
80	63.3	151.6	198,100 *
85	61.2	148.8	185,400 *
90	59.1	145.8	174,000 *
95	57.0	142.6	163,800 *
100	54.8	139.1	154,600 *
105	52.6	135.3	146,200 *
110	50.2	131.1	138,600 *
115	47.8	126.6	131,600 *
120	45.3	121.7	125,200 *
125	42.7	116.3	119,300 *
130	39.9	110.4	113,100 *
135	37.0	103.9	106,500 *
140	33.8	96.6	100,300 *
145	30.3	88.2	94,400 *
150	26.4	78.5	88,800 *
180 Ft. BOOM			
32	82.4	188.1	495,000 *
34	81.8	187.7	478,000 *
36	81.1	187.4	451,500 *
38	80.5	187.1	427,700 *
40	79.8	186.7	406,100 *
42	79.2	186.3	386,400 *
44	78.5	185.8	368,500 *
46	77.9	185.4	352,100 *
48	77.2	184.9	336,900 *
50	76.6	184.4	323,000 *
55	74.9	183.1	292,300 *
60	73.3	181.5	266,600 *
65	71.6	179.9	244,700 *
70	69.9	178.0	225,800 *
75	68.2	176.0	209,400 *
80	66.4	173.8	195,000 *
85	64.7	171.5	182,200 *
90	62.9	168.9	170,900 *
95	61.1	166.1	160,600 *
100	59.2	163.2	151,400 *
105	57.3	160.0	143,100 *
110	55.4	156.5	135,400 *
115	53.4	152.8	128,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
120	51.4	148.8	122,000 *
125	49.3	144.6	116,100 *
130	47.1	139.9	110,700 *
135	44.9	134.9	105,600 *
140	42.5	129.5	100,900 *
145	40.1	123.7	95,600 *
150	37.5	117.2	90,200 *
155	34.7	110.1	85,000 *
160	31.7	102.2	80,200 *
165	28.5	93.3	75,500 *
200 Ft. BOOM			
34	82.6	208.0	477,300 *
36	82.0	207.7	450,800 *
38	81.5	207.4	427,000 *
40	80.9	207.0	405,400 *
42	80.3	206.6	385,700 *
44	79.7	206.3	367,800 *
46	79.1	205.9	351,400 *
48	78.5	205.4	336,200 *
50	78.0	205.0	322,300 *
55	76.5	203.8	291,600 *
60	75.0	202.4	265,900 *
65	73.5	200.9	244,000 *
70	72.0	199.3	225,200 *
75	70.5	197.5	208,700 *
80	68.9	195.6	194,300 *
85	67.4	193.5	181,500 *
90	65.8	191.3	170,100 *
95	64.2	188.8	159,900 *
100	62.6	186.2	150,700 *
105	61.0	183.5	142,300 *
110	59.3	180.5	134,700 *
115	57.6	177.3	127,700 *
120	55.9	173.9	121,300 *
125	54.1	170.3	115,400 *
130	52.3	166.5	109,900 *
135	50.4	162.4	104,900 *
140	48.5	158.0	100,200 *
145	46.6	153.2	95,800 *
150	44.5	148.2	91,600 *
155	42.4	142.8	87,800 *
160	40.2	136.9	83,500 *
165	37.9	130.6	78,900 *
170	35.5	123.6	74,600 *
175	32.8	116.0	70,500 *
180	30.0	107.6	66,500 *
185	26.9	98.0	62,700 *



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. BOOM			
36	82.8	227.9	388,900 *
38	82.2	227.6	388,900 *
40	81.7	227.3	388,900 *
42	81.2	227.0	384,600 *
44	80.7	226.6	366,700 *
46	80.1	226.2	350,300 *
48	79.6	225.9	335,100 *
50	79.1	225.5	321,200 *
55	77.7	224.4	290,600 *
60	76.4	223.1	264,800 *
65	75.0	221.8	243,000 *
70	73.7	220.3	224,100 *
75	72.3	218.7	207,700 *
80	70.9	217.0	193,300 *
85	69.5	215.1	180,500 *
90	68.1	213.1	169,100 *
95	66.7	211.0	158,900 *
100	65.3	208.6	149,700 *
105	63.8	206.2	141,300 *
110	62.4	203.6	133,700 *
115	60.9	200.8	126,700 *
120	59.4	197.8	120,300 *
125	57.8	194.7	114,400 *
130	56.3	191.3	109,000 *
135	54.7	187.8	103,900 *
140	53.0	184.0	99,200 *
145	51.4	180.1	94,800 *
150	49.7	175.8	90,700 *
155	47.9	171.3	86,800 *
160	46.1	166.5	83,200 *
165	44.3	161.4	79,800 *
170	42.3	156.0	76,600 *
175	40.3	150.2	72,800 *
180	38.2	143.9	68,900 *
185	36.0	137.1	65,200 *
190	33.7	129.7	61,700 *
195	31.2	121.6	58,300 *
200	28.6	112.7	55,000 *
205	25.6	102.6	51,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 Ft. BOOM			
38	82.9	247.8	369,300 *
40	82.4	247.5	369,300 *
42	81.9	247.2	369,300 *
44	81.4	246.9	366,100 *
46	81.0	246.6	349,700 *
48	80.5	246.2	334,600 *
50	80.0	245.8	320,600 *
55	78.8	244.8	290,000 *
60	77.5	243.7	264,300 *
65	76.3	242.5	242,400 *
70	75.1	241.2	223,500 *
75	73.8	239.7	207,100 *
80	72.6	238.1	192,700 *
85	71.3	236.4	180,000 *
90	70.1	234.6	168,600 *
95	68.8	232.7	158,400 *
100	67.5	230.6	149,100 *
105	66.2	228.4	140,800 *
110	64.9	226.0	133,200 *
115	63.5	223.5	126,200 *
120	62.2	220.9	119,800 *
125	60.8	218.1	113,900 *
130	59.4	215.1	108,400 *
135	58.0	212.0	103,400 *
140	56.6	208.7	98,600 *
145	55.1	205.2	94,200 *
150	53.6	201.6	90,100 *
155	52.1	197.7	86,300 *
160	50.6	193.6	82,700 *
165	49.0	189.3	79,300 *
170	47.4	184.7	76,100 *
175	45.7	179.8	73,000 *
180	44.0	174.7	70,200 *
185	42.3	169.2	67,400 *
190	40.4	163.4	63,900 *
195	38.5	157.2	60,600 *
200	36.5	150.5	57,400 *
205	34.4	143.3	54,300 *
210	32.2	135.5	51,400 *
215	29.9	126.9	48,500 *
220	27.3	117.5	45,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. BOOM			
40	83.0	267.7	322,900 *
42	82.5	267.4	321,700 *
44	82.1	267.1	317,800 *
46	81.7	266.8	314,000 *
48	81.2	266.5	310,100 *
50	80.8	266.2	306,300 *
55	79.6	265.2	288,900 *
60	78.5	264.2	263,300 *
65	77.4	263.1	241,400 *
70	76.3	261.9	222,600 *
75	75.1	260.5	206,200 *
80	74.0	259.1	191,800 *
85	72.8	257.5	179,000 *
90	71.7	255.9	167,600 *
95	70.5	254.1	157,400 *
100	69.3	252.2	148,200 *
105	68.1	250.2	139,900 *
110	66.9	248.1	132,300 *
115	65.7	245.8	125,300 *
120	64.5	243.4	118,900 *
125	63.3	240.9	113,000 *
130	62.0	238.2	107,500 *
135	60.7	235.4	102,500 *
140	59.5	232.5	97,800 *
145	58.2	229.4	93,400 *
150	56.9	226.1	89,300 *
155	55.5	222.7	85,400 *
160	54.2	219.1	81,800 *
165	52.8	215.3	78,400 *
170	51.4	211.3	75,200 *
175	49.9	207.1	72,200 *
180	48.5	202.7	69,300 *
185	47.0	198.0	66,600 *
190	45.4	193.1	64,100 *
195	43.8	187.9	61,600 *
200	42.2	182.5	58,800 *
205	40.5	176.6	55,800 *
210	38.7	170.5	52,800 *
215	36.9	163.9	50,100 *
220	35.0	156.8	47,400 *
225	33.0	149.2	44,800 *
230	30.9	141.0	42,300 *
235	28.6	132.0	39,900 *
240	26.2	122.1	37,600 *



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 Rating Over Front of Blocked Crawlers
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MAX-ER 225
On 2250
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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280 Ft. BOOM			
44	82.7	287.3	290,400 *
46	82.3	287.1	287,000 *
48	81.8	286.8	283,500 *
50	81.4	286.4	280,100 *
55	80.4	285.6	271,600 *
60	79.4	284.6	262,500 *
65	78.3	283.6	240,600 *
70	77.3	282.5	221,800 *
75	76.2	281.2	205,400 *
80	75.1	279.9	191,000 *
85	74.1	278.5	178,300 *
90	73.0	276.9	166,900 *
95	71.9	275.3	156,700 *
100	70.9	273.6	147,500 *
105	69.8	271.7	139,100 *
110	68.7	269.7	131,500 *
115	67.6	267.7	124,500 *
120	66.4	265.5	118,100 *
125	65.3	263.2	112,300 *
130	64.2	260.8	106,800 *
135	63.0	258.2	101,700 *
140	61.9	255.5	97,000 *
145	60.7	252.7	92,600 *
150	59.5	249.8	88,500 *
155	58.3	246.7	84,700 *
160	57.1	243.5	81,100 *
165	55.8	240.1	77,700 *
170	54.6	236.5	74,500 *
175	53.3	232.8	71,500 *
180	52.0	228.9	68,600 *
185	50.7	224.8	65,900 *
190	49.4	220.6	63,300 *
195	48.0	216.1	60,900 *
200	46.6	211.3	58,200 *
205	45.1	206.4	55,600 *
210	43.7	201.2	53,100 *
215	42.1	195.7	50,700 *
220	40.6	189.9	48,400 *
225	38.9	183.7	46,000 *
230	37.3	177.2	43,600 *
235	35.5	170.3	41,200 *
240	33.7	162.9	38,900 *
245	31.8	154.9	36,700 *
250	29.7	146.3	34,600 *
255	27.5	136.9	32,500 *
260	25.2	126.6	30,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
300 Ft. BOOM			
46	82.8	307.3	225,900 *
48	82.4	307.0	223,300 *
50	82.0	306.7	220,700 *
55	81.0	305.9	214,200 *
60	80.1	305.0	207,800 *
65	79.1	304.0	201,500 *
70	78.1	303.0	195,200 *
75	77.1	301.8	189,100 *
80	76.2	300.6	183,100 *
85	75.2	299.3	177,100 *
90	74.2	297.8	165,800 *
95	73.2	296.3	155,600 *
100	72.2	294.7	146,400 *
105	71.2	293.0	138,000 *
110	70.2	291.2	130,400 *
115	69.1	289.3	123,500 *
120	68.1	287.3	117,100 *
125	67.1	285.1	111,200 *
130	66.0	282.9	105,800 *
135	65.0	280.6	100,700 *
140	63.9	278.1	96,000 *
145	62.8	275.6	91,600 *
150	61.7	272.9	87,500 *
155	60.6	270.1	83,700 *
160	59.5	267.1	80,100 *
165	58.4	264.0	76,700 *
170	57.3	260.8	73,500 *
175	56.1	257.5	70,500 *
180	55.0	254.0	67,600 *
185	53.8	250.3	64,900 *
190	52.6	246.5	62,200 *
195	51.4	242.5	59,600 *
200	50.1	238.3	57,100 *
205	48.9	234.0	54,700 *
210	47.6	229.4	52,100 *
215	46.2	224.7	49,800 *
220	44.9	219.7	47,500 *
225	43.5	214.4	45,300 *
230	42.1	208.9	43,200 *
235	40.6	203.1	41,200 *
240	39.1	197.0	39,300 *
245	37.6	190.6	37,400 *
250	35.9	183.7	35,300 *
255	34.3	176.5	33,300 *
260	32.5	168.7	31,300 *
265	30.6	160.4	29,200 *
270	28.7	151.4	26,200 *
275	26.6	141.6	23,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
320 Ft. BOOM			
48	82.9	327.2	201,800 *
50	82.5	326.9	199,500 *
55	81.6	326.1	193,600 *
60	80.7	325.3	187,600 *
65	79.8	324.4	181,800 *
70	78.9	323.4	176,000 *
75	78.0	322.4	170,300 *
80	77.0	321.2	164,600 *
85	76.1	320.0	159,200 *
90	75.2	318.6	153,800 *
95	74.3	317.2	148,500 *
100	73.3	315.7	143,400 *
105	72.4	314.1	137,200 *
110	71.4	312.4	129,600 *
115	70.5	310.7	122,700 *
120	69.5	308.8	116,300 *
125	68.6	306.8	110,400 *
130	67.6	304.8	105,000 *
135	66.6	302.6	99,900 *
140	65.6	300.3	95,200 *
145	64.7	298.0	90,800 *
150	63.7	295.5	86,800 *
155	62.7	292.9	82,900 *
160	61.6	290.2	79,300 *
165	60.6	287.4	75,900 *
170	59.6	284.4	72,700 *
175	58.5	281.4	69,700 *
180	57.5	278.2	66,600 *
185	56.4	274.9	63,700 *
190	55.3	271.4	60,900 *
195	54.2	267.8	58,300 *
200	53.1	264.0	55,800 *
205	51.9	260.1	53,400 *
210	50.8	256.1	51,100 *
215	49.6	251.8	48,900 *
220	48.4	247.4	46,800 *
225	47.2	242.8	44,600 *
230	45.9	238.0	42,500 *
235	44.7	232.9	39,500 *
240	43.4	227.6	36,500 *
245	42.0	222.1	33,600 *
250	40.7	216.3	30,800 *
255	39.3	210.3	27,900 *
260	37.8	203.9	25,100 *
265	36.3	197.1	22,400 *
270	34.7	190.0	19,600 *
275	33.1	182.4	17,000 *
280	31.4	174.3	14,300 *
285	29.6	165.7	11,700 *



Liftcrane Boom Capacities

Boom No. 49A-44 With Heavy Lift Top
 169,200 Lb. (2250) Crane Counterweight
 or 167,000 Lb. (M-250) Crane Counterweight
 60,000 Lb. Carbody Counterweight
 225,000 Lb. Wheeled Counterweight
 Rating Over Front of Blocked Crawlers
 No Travel - Limited Swing

Meets
 ANSI B30.5
 Requirements

MAX-ER 225
On 2250
or M-250

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
340 Ft. BOOM			
50	83.0	347.1	163,100 *
55	82.1	346.4	158,500 *
60	81.3	345.6	153,800 *
65	80.4	344.8	149,100 *
70	79.5	343.8	144,400 *
75	78.7	342.8	139,800 *
80	77.8	341.7	135,100 *
85	77.0	340.6	130,600 *
90	76.1	339.3	126,100 *
95	75.2	338.0	121,700 *
100	74.3	336.6	117,400 *
105	73.5	335.1	113,200 *
110	72.6	333.5	109,000 *
115	71.7	331.9	105,000 *
120	70.8	330.1	101,000 *
125	69.9	328.3	97,100 *
130	69.0	326.4	93,300 *
135	68.1	324.3	89,500 *
140	67.2	322.2	85,800 *
145	66.2	320.0	82,200 *
150	65.3	317.7	78,700 *
155	64.4	315.3	75,200 *
160	63.4	312.8	71,800 *
165	62.5	310.2	68,500 *
170	61.5	307.5	65,200 *
175	60.6	304.7	61,900 *
180	59.6	301.8	58,800 *
185	58.6	298.7	55,700 *
190	57.6	295.5	52,600 *
195	56.6	292.2	49,600 *
200	55.6	288.8	46,600 *
205	54.5	285.3	43,700 *
210	53.5	281.6	40,800 *
215	52.4	277.7	38,000 *
220	51.4	273.7	35,200 *
225	50.3	269.6	32,500 *
230	49.1	265.3	29,800 *
235	48.0	260.8	27,200 *
240	46.9	256.1	24,500 *
245	45.7	251.2	22,000 *
250	44.5	246.2	19,400 *
255	43.3	240.9	16,900 *
260	42.0	235.4	14,400 *
265	40.7	229.6	12,000 *