

Liftcrane Boom Capacities

Boom No. 222HD With Open Throat Top
53,300 Lb. Counterweight
22 Ft. 4 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

LIFTING CAPACITIES: Lifting capacities are for a crawler machine with crawlers extended when operating on a barge. Machine shall be positively secured to prevent shifting. 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 (*).

Upper boom point capacity for liftcrane service with single part whip line is 20,000 Lbs. When rear drum is equipped with high line pull option, upper boom point capacity for liftcrane service with single part whip line is 40,000 Lbs. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom 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 on a firm uniformly supporting surface with crawlers fully extended, gantry up and machine list not to exceed degrees noted. Refer to

boom rigging **No. 911764** and Wire Rope Specification chart **No. 9063-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 at barge deck 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 barge deck 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 counterweight = 28,500 Lb. and 2nd counterweight = 24,800 Lb.

Maximum Boom Lengths Lifted Unassisted		
List	Over End of Blocked Crawlers	Over Side of Extended Crawlers
	Boom Length	Boom Length
0 Degree	150 Ft.	150 Ft.
1 Degree	150 Ft.	150 Ft.
2 Degree	140 Ft.	140 Ft.
3 Degree	130 Ft.	130 Ft.

Load block, hook and weight ball on barge deck at start. Jib is not to be used on crawler machine while operating on a barge.



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Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
40 Ft. Boom							
10	81.5	44.9	200,000 *				10
11	80.0	44.7	197,900 *	160,500 *	127,900 *		11
12	78.6	44.5	182,500 *	146,700 *	116,700 *	101,200 *	12
13	77.1	44.2	169,000 *	135,100 *	107,300 *	92,900 *	13
14	75.6	44.0	157,800 *	125,100 *	99,200 *	85,800 *	14
15	74.1	43.7	147,400 *	116,500 *	92,200 *	79,600 *	15
16	72.6	43.4	135,800	109,000 *	86,100 *	74,200 *	16
17	71.1	43.0	121,400	102,300 *	80,700 *	69,500 *	17
18	69.6	42.6	109,800	96,400 *	75,800 *	65,200 *	18
19	68.0	42.2	100,100	91,100 *	71,500 *	61,400 *	19
20	66.4	41.8	91,800	86,300 *	67,700 *	58,000 *	20
22	63.2	40.8	78,800	76,900	61,000 *	52,100 *	22
24	59.9	39.6	68,800	67,400	55,400 *	47,200 *	24
26	56.5	38.3	60,900	59,900	50,700 *	43,100 *	26
28	53.0	36.8	54,500	53,800	46,600 *	39,500 *	28
30	49.2	35.1	49,300	48,700	43,100 *	36,400 *	30
32	45.2	33.2	44,900	44,400	40,000 *	33,700 *	32
34	40.9	31.0	41,100	40,700	37,300 *	31,300 *	34
36	36.2	28.3	37,900	37,500	34,900 *	29,200 *	36
38	30.8	25.1	35,100	33,000 *	32,600 *	27,200 *	38
40	24.3	21.1	32,600	28,300 *	28,000 *	25,500 *	40
50 Ft. Boom							
12	80.9	54.7	181,600 *	146,500 *			12
13	79.7	54.5	168,200 *	134,900 *	107,000 *		13
14	78.6	54.3	156,600 *	124,900 *	98,900 *	85,400 *	14
15	77.4	54.0	146,400 *	116,300 *	91,900 *	79,300 *	15
16	76.2	53.8	135,700	108,700 *	85,800 *	73,900 *	16
17	75.0	53.5	121,300	102,100 *	80,300 *	69,100 *	17
18	73.8	53.2	109,700	96,100 *	75,500 *	64,900 *	18
19	72.6	52.9	99,900	90,800 *	71,200 *	61,100 *	19
20	71.4	52.5	91,700	86,100 *	67,300 *	57,700 *	20
22	68.9	51.8	78,700	75,700	60,700 *	51,800 *	22
24	66.4	50.9	68,600	66,400	55,100 *	46,900 *	24
26	63.9	49.9	60,700	59,000	50,400 *	42,700 *	26
28	61.3	48.9	54,300	53,000	46,300 *	39,100 *	28
30	58.6	47.7	49,000	47,900	42,800 *	36,100 *	30
32	55.9	46.3	44,600	43,700	39,700 *	33,300 *	32
34	53.0	44.8	40,800	40,000	37,000 *	31,000 *	34
36	50.0	43.2	37,700	36,900	34,600 *	28,800 *	36
38	46.9	41.3	34,900	34,100	32,400 *	26,900 *	38
40	43.6	39.3	32,400	31,700	30,500 *	25,200 *	40
45	34.3	32.9	27,300	26,700	25,900	21,600 *	45
50	21.6	23.0	23,400	20,100 *	19,900 *	18,700 *	50

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60 Ft. Boom							
13	81.5	64.7	167,200 *				13
14	80.5	64.5	155,800 *	124,700 *			14
15	79.5	64.3	145,800 *	116,000 *	91,500 *		15
16	78.5	64.1	133,400 *	108,500 *	85,400 *	73,500 *	16
17	77.6	63.8	121,200	101,800 *	80,000 *	68,700 *	17
18	76.6	63.6	109,600	95,900 *	75,200 *	64,500 *	18
19	75.6	63.3	99,800	90,600 *	70,900 *	60,700 *	19
20	74.6	63.1	91,500	85,800 *	67,000 *	57,300 *	20
22	72.6	62.4	78,500	74,500	60,300 *	51,400 *	22
24	70.6	61.7	68,400	65,400	54,700 *	46,500 *	24
26	68.5	61.0	60,500	58,200	50,000 *	42,300 *	26
28	66.4	60.1	54,000	52,200	46,000 *	38,800 *	28
30	64.3	59.1	48,800	47,200	42,500 *	35,700 *	30
32	62.2	58.1	44,300	43,000	39,400 *	33,000 *	32
34	60.0	56.9	40,500	39,400	36,700 *	30,600 *	34
36	57.7	55.7	37,400	36,300	34,300 *	28,500 *	36
38	55.4	54.3	34,600	33,500	32,000	26,600 *	38
40	53.0	52.8	32,100	31,100	29,800	24,900 *	40
45	46.7	48.5	27,000	26,100	25,200	21,200 *	45
50	39.6	43.0	23,100	22,300	21,600	18,300 *	50
55	31.1	35.7	20,100	19,200	18,700	16,000 *	55
60	19.6	24.7	17,600	14,400 *	14,300 *	14,000 *	60
70 Ft. Boom							
14	81.9	74.6	154,100 *				14
15	81.0	74.5	139,800 *	115,800 *			15
16	80.2	74.3	127,900 *	108,300 *			16
17	79.4	74.1	119,100 *	101,600 *	79,700 *		17
18	78.5	73.9	109,400	95,700 *	74,900 *	64,200 *	18
19	77.7	73.7	99,600	90,400 *	70,600 *	60,400 *	19
20	76.8	73.4	91,300	84,900	66,800 *	57,000 *	20
22	75.2	72.9	78,300	73,500	60,100 *	51,100 *	22
24	73.4	72.3	68,200	64,500	54,500 *	46,200 *	24
26	71.7	71.6	60,300	57,400	49,800 *	42,100 *	26
28	70.0	70.9	53,900	51,500	45,700 *	38,500 *	28
30	68.2	70.1	48,600	46,600	42,200 *	35,400 *	30
32	66.4	69.3	44,100	42,400	39,200 *	32,700 *	32
34	64.6	68.3	40,400	38,900	36,500 *	30,300 *	34
36	62.8	67.3	37,300	35,800	33,800	28,200 *	36
38	60.9	66.2	34,400	33,100	31,300	26,300 *	38
40	59.0	65.0	32,000	30,700	29,100	24,600 *	40
45	54.1	61.6	26,900	25,800	24,600	21,000 *	45
50	48.8	57.5	23,000	21,900	21,000	18,100 *	50
55	43.0	52.5	19,900	18,900	18,200	15,700 *	55
60	36.5	46.3	17,400	16,400	15,900	13,700 *	60
65	28.7	38.3	15,300	14,400	13,900	12,100 *	65
70	18.1	26.3	13,600	10,400 *	10,300 *	10,200 *	70



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80 Ft. Boom							
16	81.4	84.4	123,000 *				16
17	80.7	84.3	117,800 *	99,500 *			17
18	80.0	84.1	108,900 *	92,700 *	74,600 *		18
19	79.2	83.9	99,400	86,900 *	70,300 *		19
20	78.5	83.7	91,100	81,700 *	66,400 *	56,600 *	20
22	77.0	83.2	78,100	72,300	59,700 *	50,700 *	22
24	75.6	82.7	68,000	63,600	54,200 *	45,800 *	24
26	74.1	82.1	60,100	56,500	49,400 *	41,700 *	26
28	72.6	81.5	53,600	50,800	45,400 *	38,100 *	28
30	71.1	80.8	48,300	45,900	41,900 *	35,000 *	30
32	69.5	80.1	43,900	41,800	38,800 *	32,300 *	32
34	68.0	79.3	40,100	38,300	35,800	29,900 *	34
36	66.4	78.4	37,000	35,200	33,000	27,800 *	36
38	64.9	77.5	34,200	32,500	30,600	25,900 *	38
40	63.3	76.5	31,700	30,100	28,400	24,200 *	40
45	59.1	73.7	26,600	25,300	23,900	20,600 *	45
50	54.8	70.3	22,700	21,500	20,400	17,700 *	50
55	50.3	66.4	19,600	18,400	17,600	15,400 *	55
60	45.4	61.8	17,100	16,000	15,300	13,400 *	60
65	40.1	56.2	15,000	13,900	13,400	11,700 *	65
70	34.0	49.4	13,300	12,200	11,800	10,300 *	70
75	26.8	40.7	11,800	10,300 *	10,100 *	9,000 *	75
80	16.9	27.8	10,100 *	7,200 *	7,100 *	7,000 *	80



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90 Ft. Boom							
17	81.7	94.4	114,000 *				17
18	81.1	94.2	105,300 *				18
19	80.5	94.1	97,900 *	85,800 *			19
20	79.8	93.9	90,900	80,500 *	66,100 *		20
22	78.5	93.5	77,900	71,300	59,500 *	50,400 *	22
24	77.2	93.0	67,800	62,700	53,900 *	45,500 *	24
26	75.9	92.5	59,800	55,700	49,200 *	41,400 *	26
28	74.6	92.0	53,400	50,000	45,100 *	37,800 *	28
30	73.2	91.4	48,100	45,300	41,600	34,700 *	30
32	71.9	90.7	43,600	41,200	38,000	32,000 *	32
34	70.6	90.0	39,800	37,700	35,000	29,700 *	34
36	69.2	89.3	36,800	34,700	32,300	27,500 *	36
38	67.8	88.4	33,900	32,000	29,900	25,600 *	38
40	66.4	87.6	31,400	29,700	27,800	23,900 *	40
45	62.9	85.2	26,400	24,800	23,400	20,300 *	45
50	59.2	82.3	22,400	21,100	19,900	17,400 *	50
55	55.4	79.0	19,400	18,100	17,100	15,100 *	55
60	51.4	75.2	16,900	15,600	14,900	13,100 *	60
65	47.2	70.9	14,800	13,600	13,000	11,400 *	65
70	42.6	65.7	13,000	11,900	11,300	10,000 *	70
75	37.6	59.7	11,600	10,400	9,900	8,800 *	75
80	32.0	52.3	10,300	9,100	8,700	7,700 *	80
85	25.2	42.9	9,200	7,200 *	7,100 *	6,700 *	85
90	15.8	29.1	7,500 *	4,700 *	4,600 *	4,500 *	90



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100 Ft. Boom							
19	81.4	104.2	94,800 *				19
20	80.8	104.0	88,500 *	71,600 *			20
22	79.7	103.7	77,700	68,900 *	59,000 *		22
24	78.5	103.3	67,600	62,200	54,000 *	45,700 *	24
26	77.3	102.8	59,600	55,400	49,300 *	41,500 *	26
28	76.2	102.3	53,100	49,800	45,100	38,000 *	28
30	75.0	101.8	47,800	45,100	41,100	34,900 *	30
32	73.8	101.2	43,300	41,100	37,600	32,200 *	32
34	72.6	100.6	39,500	37,600	34,600	29,800 *	34
36	71.4	99.9	36,500	34,600	32,000	27,700 *	36
38	70.1	99.2	33,700	32,000	29,600	25,800 *	38
40	68.9	98.4	31,200	29,700	27,600	24,100 *	40
45	65.8	96.3	26,100	24,900	23,300	20,500 *	45
50	62.6	93.8	22,200	21,100	19,900	17,600 *	50
55	59.3	91.0	19,100	18,100	17,100	15,200 *	55
60	55.9	87.7	16,600	15,700	14,900	13,300 *	60
65	52.3	84.1	14,500	13,700	13,000	11,600 *	65
70	48.6	79.9	12,700	12,000	11,400	10,200 *	70
75	44.6	75.0	11,300	10,500	10,000	8,900 *	75
80	40.3	69.5	10,000	9,200	8,800	7,800 *	80
85	35.6	62.9	8,900	8,100	7,700	6,900 *	85
90	30.3	55.1	7,900	7,100 *	6,800	6,000 *	90
95	23.9	45.0	7,000	5,300 *	5,200 *	5,100 *	95
100	15.0	30.4	5,200 *	3,200 *	3,100 *	3,000 *	100



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110 Ft. Boom							
20	81.7	114.2	86,700 *				20
22	80.6	113.8	77,900	64,700 *			22
24	79.6	113.5	67,700	59,700 *	53,500 *		24
26	78.5	113.1	59,800	54,200 *	48,700	41,200 *	26
28	77.4	112.6	53,300	49,100	44,100	37,700 *	28
30	76.4	112.1	48,000	44,500	40,200	34,600 *	30
32	75.3	111.6	43,500	40,500	36,800	31,900 *	32
34	74.2	111.1	39,700	37,100	33,900	29,500 *	34
36	73.1	110.4	36,700	34,100	31,300	27,400 *	36
38	72.0	109.8	33,900	31,500	29,000	25,500 *	38
40	70.9	109.1	31,400	29,200	27,000	23,800 *	40
45	68.1	107.2	26,300	24,500	22,700	20,200 *	45
50	65.3	105.0	22,400	20,800	19,400	17,300 *	50
55	62.4	102.5	19,300	17,800	16,700	15,000 *	55
60	59.4	99.6	16,800	15,400	14,400	13,000 *	60
65	56.3	96.4	14,700	13,400	12,600	11,300 *	65
70	53.1	92.8	13,000	11,600	11,000	9,900 *	70
75	49.7	88.8	11,500	10,200	9,600	8,700 *	75
80	46.2	84.2	10,200	8,900	8,400	7,600 *	80
85	42.4	79.0	9,100	7,800	7,400	6,600 *	85
90	38.4	73.0	8,100	6,800	6,500	5,800 *	90
95	33.9	66.0	7,300	5,900	5,600	5,000 *	95
100	28.8	57.7	6,500	4,700 *	4,500 *	4,300 *	100
105	22.7	47.1	5,800	3,200 *	3,100 *	3,000 *	105
110	14.3	31.7	4,100 *				110



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120 Ft. Boom							
22	81.4	124.0	77,700				22
24	80.4	123.6	67,600	56,100 *			24
26	79.5	123.3	59,500	53,900	46,800 *		26
28	78.5	122.9	53,100	48,400	43,100	37,300 *	28
30	77.5	122.4	47,700	43,800	39,300	34,200 *	30
32	76.5	121.9	43,300	39,900	36,000	31,500 *	32
34	75.6	121.4	39,500	36,600	33,100	29,200 *	34
36	74.6	120.9	36,500	33,600	30,600	27,000 *	36
38	73.6	120.3	33,600	31,000	28,300	25,200 *	38
40	72.6	119.7	31,100	28,700	26,300	23,500 *	40
45	70.0	117.9	26,000	24,000	22,100	19,900 *	45
50	67.5	115.9	22,100	20,300	18,800	17,000 *	50
55	64.9	113.7	19,000	17,400	16,200	14,600 *	55
60	62.2	111.2	16,500	15,000	14,000	12,600 *	60
65	59.4	108.3	14,400	13,000	12,100	11,000 *	65
70	56.6	105.1	12,700	11,300	10,500	9,600 *	70
75	53.7	101.6	11,200	9,800	9,200	8,300 *	75
80	50.6	97.6	9,900	8,500	8,000	7,200 *	80
85	47.4	93.2	8,800	7,400	7,000	6,300 *	85
90	44.1	88.3	7,800	6,400	6,000	5,400 *	90
95	40.5	82.7	6,900	5,600	5,200	4,600 *	95
100	36.6	76.3	6,100	4,800	4,500	4,000 *	100
105	32.4	68.9	5,500	3,800 *	3,700 *	3,300 *	105
110	27.5	60.1	4,800				110
115	21.7	49.0	3,900 *				115

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130 Ft. Boom							
24	81.2	133.8	67,300				24
26	80.3	133.4	59,300	50,700 *			26
28	79.4	133.1	52,800	47,700 *	42,100		28
30	78.5	132.7	47,500	43,200	38,400	33,900 *	30
32	77.6	132.2	43,000	39,400	35,200	31,200 *	32
34	76.7	131.8	39,200	36,000	32,400	28,900 *	34
36	75.8	131.2	36,300	33,100	29,900	26,700 *	36
38	74.9	130.7	33,400	30,600	27,700	24,900 *	38
40	73.9	130.1	30,900	28,300	25,700	23,100 *	40
45	71.6	128.5	25,800	23,600	21,600	19,600 *	45
50	69.3	126.7	21,900	20,000	18,400	16,700 *	50
55	66.9	124.7	18,700	17,000	15,700	14,300 *	55
60	64.5	122.4	16,200	14,600	13,500	12,400 *	60
65	62.0	119.8	14,200	12,600	11,700	10,700 *	65
70	59.5	117.0	12,400	10,900	10,200	9,300 *	70
75	56.9	113.8	10,900	9,500	8,800	8,000 *	75
80	54.2	110.3	9,600	8,200	7,600	6,900 *	80
85	51.4	106.5	8,500	7,100	6,600	6,000 *	85
90	48.5	102.2	7,500	6,100	5,700	5,100 *	90
95	45.5	97.5	6,700	5,300	4,900	4,400 *	95
100	42.3	92.2	5,900	4,500	4,100	3,700 *	100
105	38.8	86.3	5,200	3,800	3,500	3,100 *	105
110	35.1	79.5	4,600				110
115	31.1	71.7	4,000				115
120	26.4	62.5	3,400 *				120



Liftcrane Boom Capacities

222HD

Boom No. 222HD With Open Throat Top
53,300 Lb. Counterweight
22 Ft. 4 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	Oper. Radius Feet
140 Ft. Boom						
24	81.8	143.9	66,200 *			24
26	81.0	143.6	59,100	42,500 *		26
28	80.2	143.2	52,600	41,300 *		28
30	79.3	142.9	47,200	40,100 *	33,100 *	30
32	78.5	142.5	42,700	39,000 *	32,200 *	32
34	77.7	142.0	39,300	35,800	31,400 *	34
36	76.8	141.6	36,000	32,900	29,500	36
38	76.0	141.1	33,100	30,400	27,300	38
40	75.1	140.5	30,600	28,100	25,400	40
45	73.0	139.1	25,500	23,500	21,400	45
50	70.8	137.4	21,600	19,900	18,200	50
55	68.6	135.5	18,500	17,000	15,600	55
60	66.4	133.4	15,900	14,600	13,400	60
65	64.2	131.1	13,900	12,600	11,600	65
70	61.9	128.5	12,100	10,900	10,100	70
75	59.5	125.6	10,600	9,500	8,700	75
80	57.1	122.5	9,300	8,200	7,600	80
85	54.6	119.1	8,200	7,100	6,600	85
90	52.0	115.3	7,200	6,100	5,600	90
95	49.4	111.1	6,400	5,300	4,800	95
100	46.6	106.6	5,600	4,500	4,100	100
105	43.7	101.5	4,900	3,800	3,500	105
110	40.6	95.9	4,300	3,200		110
115	37.4	89.7	3,700			115
120	33.8	82.6	3,200			120

Liftcrane Boom Capacities

Boom No. 222HD With Open Throat Top
 53,300 Lb. Counterweight
 22 Ft. 4 in. Crawlers Extended
 Crawler Machine on a Barge
 0 Degree thru 3 Degree Machine List
 No Travel - 360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds
150 Ft. Boom				
26	81.6	153.7	58,300 *	
28	80.8	153.4	52,600	38,100 *
30	80.0	153.0	47,300	36,900 *
32	79.3	152.7	42,800	35,800 *
34	78.5	152.3	39,400	34,800 *
36	77.7	151.8	36,100	32,200 *
38	76.9	151.4	33,200	29,900
40	76.1	150.9	30,700	27,700
45	74.2	149.5	25,600	23,100
50	72.2	148.0	21,600	19,500
55	70.1	146.2	18,500	16,600
60	68.1	144.3	16,000	14,200
65	66.0	142.1	13,900	12,300
70	63.9	139.7	12,200	10,600
75	61.7	137.1	10,700	9,100
80	59.5	134.3	9,400	7,900
85	57.3	131.2	8,300	6,800
90	55.0	127.8	7,300	5,800
95	52.6	124.1	6,400	5,000
100	50.1	120.0	5,700	4,200
105	47.6	115.6	5,000	3,500
110	44.9	110.8	4,300	
115	42.1	105.4	3,800	
120	39.2	99.5	3,300	