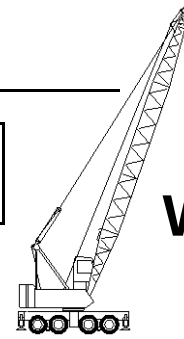


Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



222
WAGON

LIFTING CAPACITIES: 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 (*). Capacities are not shown for boom positions which, without load, provide less than required ANSI B30.5 backward stability.

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

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. A07956**, Wire Rope Specification chart **No. 9191-A** and Operating Range Diagram chart **No. 9192-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, ground conditions, condition and inflation of tires (140 PSI minimum), as well as adverse operating conditions and physical machine depreciation.

Loads lifted may increase radius due to tire deflection. This increase must be compensated for by raising boom. 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 Manitowoc 8 x 4 wagon, 156 in. wheel base, 12 Ft. 0-3/4 in. front and rear axle track, 14.00 x 24 tires, 30-5/8 in. front and rear outrigger extensions, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants and counterweight as specified.

Note: Swing over side on rubber with 63,300 Lb. counterweight is not allowed without boom attached.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 10
30 Ft.	1,700 Lbs.
40 Ft.	2,100 Lbs.
50 Ft.	2,600 Lbs.
60 Ft.	3,100 Lbs.

Maximum Boom and Jib Lengths Lifted Unassisted					
Over End or Side of Fully Extended Outriggers		Over End On Rubber			
53,300 Lb. or 63,000 Lb. Counterweight		63,000 Lb. Counterweight		53,000 Lb. Counterweight	
Boom Length	Jib No. 10	Boom Length	Jib No. 10	Boom Length	Jib No. 10
200 Ft.	—	180 Ft.	—	180 Ft.	—
190 Ft.	60 Ft.	180 Ft.	60 Ft.	180 Ft.	40 Ft.
				170 Ft.	60 Ft.
Load block, hook and weight ball on ground at start.					

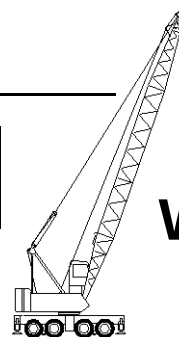
Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.



Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
 ANSI B30.5
 Requirements



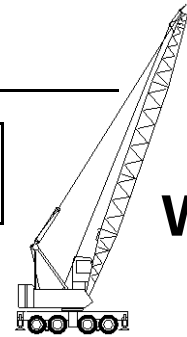
222
WAGON

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
40 Ft. Boom							
12	77.8	46.8			133,700 *	152,600 *	12
13	76.3	46.6			125,900 *	144,900 *	13
14	74.8	46.3			119,000 *	138,000 *	14
15	73.3	46.0			112,800 *	131,800 *	15
16	71.8	45.7		130,200 *	107,200 *	126,100 *	16
17	70.3	45.4		124,900 *	102,100 *	120,700	17
18	68.8	45.0		120,000 *	97,500 *	110,400	18
19	67.2	44.6		113,200	93,200 *	101,600	19
20	65.6	44.1		104,900	87,200	94,100	20
22	62.4	43.1		91,400	76,300	82,000	22
24	59.1	42.0		80,900	67,700	72,500	24
26	55.7	40.7		72,500	60,800	65,000	26
28	52.1	39.2		65,700	55,100	58,800	28
30	48.4	37.5		60,000	50,400	53,700	30
32	44.4	35.6		55,100	46,400	49,300	32
34	40.1	33.3	48,100	51,000	42,900	45,600	34
36	35.4	30.7	44,700	47,400	39,900	42,400	36
38	30.0	27.5	41,800	44,300	37,300	39,600	38
40	23.5	23.4	39,200 *	40,600 *	35,000	37,100	40
50 Ft. Boom							
12	80.2	57.0			132,700 *	151,500 *	12
13	79.1	56.8			125,000 *	143,900 *	13
14	77.9	56.6		141,600 *	118,200 *	137,000 *	14
15	76.7	56.4		135,200 *	112,000 *	130,900 *	15
16	75.5	56.2		129,400 *	106,400 *	125,300 *	16
17	74.4	55.9		124,100 *	101,400 *	119,700	17
18	73.2	55.6		119,200 *	96,700 *	109,500	18
19	72.0	55.3		112,400	92,500 *	100,800	19
20	70.7	54.9		104,200	86,600	93,400	20
22	68.3	54.2		90,800	75,700	81,400	22
24	65.8	53.3		80,400	67,200	72,000	24
26	63.2	52.3		72,100	60,400	64,500	26
28	60.6	51.2		65,200	54,700	58,400	28
30	58.0	50.0	56,000	59,600	50,000	53,300	30
32	55.2	48.7	51,600	54,800	46,000	49,000	32
34	52.3	47.2	47,700	50,600	42,600	45,300	34
36	49.4	45.5	44,400	47,100	39,600	42,100	36
38	46.3	43.7	41,500	43,900	37,000	39,200	38
40	43.0	41.6	38,900	41,200	34,700	36,800	40
45	33.6	35.2	33,600	35,500	29,900	31,700	45
50	20.9	25.3	29,500	31,200	26,200	27,700	50

Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



222
WAGON

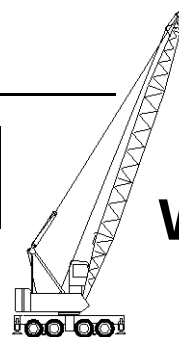
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
60 Ft. Boom							
12	81.9	67.2		155,700 *	131,700 *	150,500 *	12
13	80.9	67.0		147,700 *	124,100 *	142,900 *	13
14	79.9	66.8		140,600 *	117,300 *	136,100 *	14
15	79.0	66.7		134,300 *	111,200 *	130,000 *	15
16	78.0	66.4		128,500 *	105,600 *	124,400 *	16
17	77.0	66.2		123,200 *	100,600 *	118,600	17
18	76.0	66.0		118,400 *	96,000 *	108,600	18
19	75.0	65.7		111,500	91,800 *	100,000	19
20	74.1	65.4		103,400	85,900	92,700	20
22	72.1	64.8		90,100	75,200	80,800	22
24	70.0	64.1		79,800	66,700	71,500	24
26	68.0	63.3		71,600	59,900	64,100	26
28	65.9	62.5	60,800	64,800	54,300	58,000	28
30	63.8	61.5	55,600	59,200	49,600	52,900	30
32	61.6	60.5	51,200	54,400	45,700	48,600	32
34	59.4	59.3	47,400	50,300	42,200	44,900	34
36	57.2	58.0	44,100	46,700	39,300	41,700	36
38	54.9	56.7	41,200	43,600	36,700	38,900	38
40	52.5	55.2	38,600	40,900	34,300	36,400	40
45	46.1	50.8	33,300	35,200	29,600	31,400	45
50	39.0	45.3	29,200	30,900	25,900	27,400	50
55	30.6	38.0	25,900	27,400	23,000	24,300	55
60	19.0	27.1	23,300	24,600	20,600	21,800	60
70 Ft. Boom							
14	81.4	77.0		139,800 *	116,500 *	135,300 *	14
15	80.6	76.8		133,500 *	110,500 *	129,200 *	15
16	79.7	76.6		127,700 *	105,000 *	123,700 *	16
17	78.9	76.4		122,500 *	100,000 *	117,600	17
18	78.1	76.2		117,700 *	95,400 *	107,700	18
19	77.2	76.0		110,700	91,200 *	99,300	19
20	76.4	75.8		102,600	85,300	92,000	20
22	74.7	75.2		89,500	74,600	80,300	22
24	73.0	74.7	74,100	79,300	66,300	71,100	24
26	71.3	74.0	66,600	71,100	59,500	63,700	26
28	69.5	73.3	60,500	64,400	54,000	57,600	28
30	67.8	72.5	55,300	58,800	49,300	52,600	30
32	66.0	71.6	50,900	54,100	45,400	48,300	32
34	64.2	70.7	47,100	50,000	42,000	44,700	34
36	62.3	69.7	43,800	46,500	39,000	41,500	36
38	60.5	68.6	40,900	43,400	36,400	38,700	38
40	58.6	67.4	38,400	40,600	34,100	36,200	40
45	53.6	64.0	33,100	35,000	29,400	31,200	45
50	48.3	59.8	29,000	30,700	25,700	27,300	50
55	42.5	54.9	25,700	27,200	22,800	24,100	55
60	36.0	48.7	23,100	24,400	20,400	21,600	60
65	28.3	40.6	20,800	22,000	18,400	19,500	65
70	17.6	28.6	19,000	20,000	16,700	17,700	70



Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
 ANSI B30.5
 Requirements



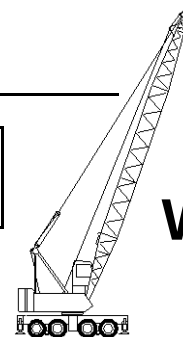
222
WAGON

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
80 Ft. Boom							
15	81.8	86.9		126,100 *	109,600 *	126,100 *	15
16	81.0	86.8		124,200 *	104,100 *	122,800 *	16
17	80.3	86.6		121,600 *	99,200 *	116,600	17
18	79.6	86.4		116,900 *	94,700 *	106,800	18
19	78.8	86.2		109,800	90,500 *	98,500	19
20	78.1	86.0		101,800	84,600	91,300	20
22	76.6	85.6	82,800	88,900	74,100	79,600	22
24	75.2	85.1	73,600	78,700	65,800	70,500	24
26	73.7	84.5	66,200	70,600	59,100	63,200	26
28	72.2	83.9	60,000	64,000	53,600	57,200	28
30	70.7	83.2	54,900	58,400	48,900	52,200	30
32	69.1	82.4	50,500	53,700	45,000	47,900	32
34	67.6	81.7	46,700	49,600	41,600	44,300	34
36	66.0	80.8	43,400	46,100	38,700	41,100	36
38	64.4	79.8	40,600	43,000	36,100	38,400	38
40	62.8	78.8	38,000	40,300	33,800	35,900	40
45	58.7	76.0	32,800	34,700	29,100	30,900	45
50	54.4	72.7	28,700	30,400	25,400	27,000	50
55	49.9	68.8	25,400	26,900	22,500	23,800	55
60	45.0	64.1	22,800	24,100	20,100	21,300	60
65	39.6	58.6	20,600	21,700	18,100	19,200	65
70	33.6	51.8	18,700	19,700	16,400	17,400	70
75	26.4	43.0	17,100	18,100	15,000	15,900	75
80	16.4	30.1	15,700	16,600	13,700	14,600	80
90 Ft. Boom							
17	81.4	96.8		112,200 *	98,500 *	112,200 *	17
18	80.7	96.6		110,700 *	94,000 *	105,900	18
19	80.1	96.4		108,900	89,900 *	97,700	19
20	79.5	96.2	89,800 *	101,100	83,900	90,600	20
22	78.2	95.8	82,200	88,200	73,500	79,100	22
24	76.8	95.4	73,100	78,200	65,300	70,000	24
26	75.5	94.9	65,700	70,200	58,700	62,800	26
28	74.2	94.3	59,600	63,500	53,200	56,800	28
30	72.9	93.7	54,500	58,000	48,600	51,800	30
32	71.5	93.1	50,200	53,300	44,700	47,600	32
34	70.2	92.4	46,400	49,300	41,300	44,000	34
36	68.8	91.6	43,100	45,800	38,400	40,800	36
38	67.5	90.8	40,300	42,700	35,800	38,100	38
40	66.1	89.9	37,800	40,000	33,500	35,600	40
45	62.5	87.5	32,500	34,400	28,800	30,600	45
50	58.9	84.7	28,500	30,100	25,200	26,700	50
55	55.1	81.4	25,200	26,700	22,300	23,600	55
60	51.1	77.6	22,600	23,900	19,900	21,100	60
65	46.8	73.2	20,400	21,500	17,900	19,000	65
70	42.3	68.1	18,500	19,500	16,200	17,200	70
75	37.3	62.0	16,900	17,900	14,800	15,700	75
80	31.6	54.7	15,500	16,400	13,500	14,400	80
85	24.8	45.3	14,300	15,100	12,400	13,200	85
90	15.5	31.5	13,200	14,000	11,500	12,200	90

Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



**222
WAGON**

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
100 Ft. Boom							
18	81.7	106.7	97,400 *	100,700 *	93,500 *	100,700 *	18
19	81.1	106.6	93,100 *	99,500 *	89,400 *	96,900	19
20	80.5	106.4	89,200 *	98,100 *	83,300	89,900	20
22	79.4	106.0	81,700	87,700	73,000	78,500	22
24	78.2	105.6	72,600	77,700	64,900	69,600	24
26	77.0	105.2	65,300	69,700	58,300	62,400	26
28	75.8	104.7	59,200	63,200	52,800	56,500	28
30	74.6	104.2	54,200	57,700	48,300	51,500	30
32	73.5	103.6	49,800	53,000	44,400	47,300	32
34	72.3	103.0	46,100	49,000	41,100	43,700	34
36	71.0	102.3	42,900	45,500	38,100	40,600	36
38	69.8	101.6	40,000	42,500	35,600	37,800	38
40	68.6	100.8	37,500	39,800	33,300	35,400	40
45	65.5	98.7	32,300	34,200	28,600	30,400	45
50	62.3	96.2	28,300	29,900	25,000	26,500	50
55	59.0	93.3	25,000	26,500	22,100	23,400	55
60	55.6	90.1	22,400	23,700	19,700	20,900	60
65	52.0	86.4	20,200	21,300	17,700	18,800	65
70	48.3	82.2	18,300	19,400	16,000	17,000	70
75	44.3	77.4	16,700	17,700	14,600	15,500	75
80	40.0	71.8	15,300	16,200	13,300	14,200	80
85	35.3	65.3	14,100	14,900	12,300	13,000	85
90	29.9	57.4	13,000	13,800	11,300	12,000	90
95	23.5	47.4	12,100	12,800	10,400	11,100	95
100	14.7	32.8	11,200	11,900	9,700	10,300	100

Manitowoc Cranes, Inc.

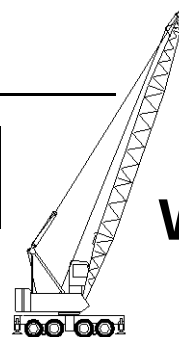
Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



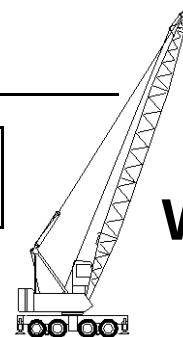
**222
WAGON**

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
110 Ft. Boom							
19	81.9	116.7	90,900 *	90,900 *	88,700 *	90,900 *	19
20	81.4	116.5	88,600 *	89,900 *	82,700	89,200	20
22	80.3	116.2	81,100	87,000	72,400	77,900	22
24	79.3	115.8	72,100	77,200	64,400	69,100	24
26	78.2	115.4	64,800	69,200	57,900	61,900	26
28	77.1	115.0	58,800	62,700	52,500	56,100	28
30	76.1	114.5	53,800	57,300	47,900	51,100	30
32	75.0	114.0	49,500	52,600	44,100	47,000	32
34	73.9	113.4	45,800	48,600	40,700	43,400	34
36	72.8	112.8	42,600	45,200	37,800	40,300	36
38	71.7	112.2	39,700	42,100	35,300	37,500	38
40	70.6	111.5	37,200	39,500	33,000	35,100	40
45	67.8	109.6	32,000	33,900	28,400	30,100	45
50	65.0	107.4	28,000	29,700	24,700	26,300	50
55	62.1	104.8	24,800	26,200	21,800	23,200	55
60	59.1	102.0	22,100	23,400	19,500	20,700	60
65	56.0	98.8	19,900	21,100	17,500	18,600	65
70	52.8	95.2	18,100	19,100	15,800	16,800	70
75	49.4	91.1	16,500	17,500	14,400	15,300	75
80	45.9	86.6	15,100	16,000	13,100	14,000	80
85	42.1	81.3	13,900	14,700	12,000	12,800	85
90	38.1	75.4	12,800	13,600	11,100	11,800	90
95	33.6	68.4	11,900	12,600	10,200	10,900	95
100	28.5	60.0	11,000	11,700	9,500	10,100	100
105	22.4	49.4	10,200	10,900	8,800	9,400	105
110	14.0	34.0	9,500	10,200	8,100	8,700	110

Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



222
WAGON

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
120 Ft. Boom							
22	81.1	126.3	78,400 *	78,400 *	71,900	77,300	22
24	80.2	126.0	71,600	76,600 *	63,900	68,600	24
26	79.2	125.6	64,400	68,800	57,400	61,500	26
28	78.2	125.2	58,400	62,300	52,000	55,600	28
30	77.3	124.8	53,400	56,900	47,500	50,800	30
32	76.3	124.3	49,100	52,200	43,700	46,600	32
34	75.3	123.8	45,400	48,300	40,400	43,000	34
36	74.3	123.2	42,200	44,800	37,500	39,900	36
38	73.3	122.7	39,400	41,800	35,000	37,200	38
40	72.3	122.0	36,900	39,100	32,700	34,800	40
45	69.8	120.3	31,700	33,600	28,100	29,800	45
50	67.2	118.3	27,700	29,400	24,500	26,000	50
55	64.6	116.1	24,500	25,900	21,600	22,900	55
60	61.9	113.5	21,900	23,100	19,200	20,400	60
65	59.2	110.7	19,700	20,800	17,200	18,300	65
70	56.3	107.5	17,800	18,900	15,500	16,500	70
75	53.4	103.9	16,200	17,200	14,100	15,000	75
80	50.4	100.0	14,800	15,700	12,900	13,700	80
85	47.2	95.6	13,600	14,400	11,800	12,600	85
90	43.8	90.7	12,500	13,300	10,800	11,500	90
95	40.2	85.1	11,600	12,300	10,000	10,600	95
100	36.4	78.7	10,700	11,400	9,200	9,800	100
105	32.1	71.3	10,000	10,600	8,500	9,100	105
110	27.3	62.5	9,300	9,900	7,900	8,400	110
115	21.4	51.3	8,600	9,200	7,300	7,800	115
120	13.4	35.2	8,100	8,600	6,800	7,300	120

Manitowoc Cranes, Inc.

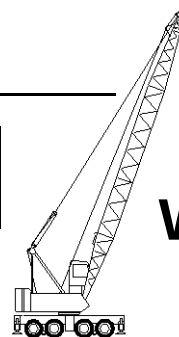
Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



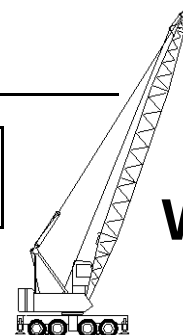
**222
WAGON**

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
130 Ft. Boom							
22	81.8	136.5	71,500 *	71,500 *	71,300	71,500 *	22
24	80.9	136.1	69,900 *	69,900 *	63,400	68,000	24
26	80.0	135.8	63,900	68,300 *	57,000	61,000	26
28	79.1	135.4	58,000	61,800	51,600	55,200	28
30	78.2	135.0	53,000	56,400	47,200	50,400	30
32	77.3	134.6	48,700	51,900	43,300	46,200	32
34	76.4	134.1	45,100	47,900	40,100	42,700	34
36	75.5	133.6	41,900	44,500	37,200	39,600	36
38	74.6	133.1	39,100	41,500	34,700	36,900	38
40	73.7	132.5	36,600	38,800	32,400	34,500	40
45	71.4	130.9	31,400	33,300	27,800	29,600	45
50	69.0	129.1	27,400	29,100	24,200	25,700	50
55	66.7	127.1	24,200	25,700	21,300	22,700	55
60	64.2	124.7	21,600	22,900	18,900	20,200	60
65	61.8	122.2	19,400	20,600	17,000	18,100	65
70	59.2	119.3	17,600	18,600	15,300	16,300	70
75	56.6	116.2	16,000	16,900	13,900	14,800	75
80	53.9	112.7	14,600	15,500	12,600	13,500	80
85	51.1	108.8	13,400	14,200	11,500	12,300	85
90	48.3	104.6	12,300	13,100	10,600	11,300	90
95	45.2	99.8	11,400	12,100	9,700	10,400	95
100	42.0	94.6	10,500	11,200	9,000	9,600	100
105	38.6	88.6	9,700	10,400	8,300	8,900	105
110	34.9	81.9	9,000	9,700	7,600	8,200	110
115	30.8	74.1	8,400	9,000	7,100	7,600	115
120	26.2	64.8	7,800	8,400	6,600	7,100	120
125	20.6	53.2	7,300	7,800	6,100	6,600	125
130	12.8	36.3	6,700 *	7,200 *	5,600	6,100	130

Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



222
WAGON

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
140 Ft. Boom							
24	81.6	146.3	63,700 *	63,700 *	62,900	63,700 *	24
26	80.8	145.9	62,300 *	62,300 *	56,600	60,600	26
28	79.9	145.6	57,600	60,900 *	51,300	54,800	28
30	79.1	145.2	52,600	56,100	46,800	50,000	30
32	78.3	144.8	48,400	51,500	43,000	45,900	32
34	77.4	144.4	44,800	47,600	39,800	42,400	34
36	76.6	143.9	41,600	44,200	36,900	39,300	36
38	75.7	143.4	38,800	41,200	34,400	36,600	38
40	74.9	142.9	36,300	38,600	32,200	34,200	40
45	72.8	141.4	31,200	33,100	27,600	29,300	45
50	70.6	139.8	27,200	28,800	24,000	25,500	50
55	68.4	137.9	24,000	25,500	21,100	22,400	55
60	66.2	135.8	21,400	22,700	18,700	19,900	60
65	63.9	133.4	19,200	20,400	16,800	17,900	65
70	61.6	130.9	17,400	18,400	15,100	16,100	70
75	59.3	128.0	15,800	16,700	13,700	14,600	75
80	56.9	124.9	14,400	15,300	12,400	13,300	80
85	54.4	121.4	13,200	14,000	11,400	12,100	85
90	51.8	117.7	12,100	12,900	10,400	11,100	90
95	49.2	113.5	11,200	11,900	9,500	10,200	95
100	46.4	108.9	10,300	11,000	8,800	9,400	100
105	43.5	103.9	9,600	10,200	8,100	8,700	105
110	40.4	98.3	8,900	9,500	7,500	8,000	110
115	37.1	92.1	8,200	8,800	6,900	7,400	115
120	33.6	85.0	7,700	8,200	6,400	6,900	120
125	29.7	76.8	7,100	7,700	5,900	6,400	125
130	25.2	67.1	6,600	7,100	5,500	5,900	130
135	19.8	55.0	6,200	6,700	5,100	5,500	135
140	12.4	37.4	5,500 *	5,900 *	4,700	5,100	140

Manitowoc Cranes, Inc.

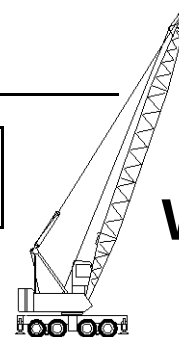
Manitowoc, Wisconsin 54220 U.S.A.



Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



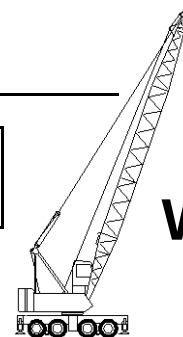
**222
WAGON**

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
150 Ft. Boom							
26	81.4	156.1	55,000 *	55,000 *	55,000 *	55,000 *	26
28	80.6	155.8	54,600 *	54,600 *	50,900	54,400	28
30	79.8	155.4	52,200	53,500 *	46,500	49,600	30
32	79.1	155.0	48,000	51,100	42,700	45,600	32
34	78.3	154.6	44,400	47,300	39,400	42,100	34
36	77.5	154.2	41,300	43,900	36,600	39,000	36
38	76.7	153.7	38,500	40,900	34,100	36,300	38
40	75.9	153.2	36,000	38,200	31,900	33,900	40
45	73.9	151.9	30,900	32,800	27,300	29,000	45
50	71.9	150.3	26,900	28,600	23,700	25,200	50
55	69.9	148.6	23,700	25,200	20,800	22,200	55
60	67.9	146.6	21,100	22,400	18,500	19,700	60
65	65.8	144.5	19,000	20,100	16,500	17,600	65
70	63.7	142.1	17,100	18,200	14,900	15,900	70
75	61.5	139.5	15,500	16,500	13,400	14,400	75
80	59.3	136.7	14,200	15,100	12,200	13,000	80
85	57.1	133.5	12,900	13,800	11,100	11,900	85
90	54.8	130.1	11,900	12,700	10,200	10,900	90
95	52.4	126.4	10,900	11,700	9,300	10,000	95
100	49.9	122.4	10,100	10,800	8,500	9,200	100
105	47.4	118.0	9,300	10,000	7,900	8,500	105
110	44.7	113.1	8,600	9,300	7,200	7,800	110
115	41.9	107.8	8,000	8,600	6,700	7,200	115
120	39.0	101.9	7,400	8,000	6,200	6,700	120
125	35.8	95.3	6,900	7,400	5,700	6,200	125
130	32.4	87.9	6,400	6,900	5,200	5,700	130
135	28.6	79.4	6,000	6,500	4,800	5,300	135
140	24.3	69.3	5,500	6,000	4,500	4,900	140
145	19.1	56.7	5,200	5,600	4,100	4,500	145
150	11.9	38.5	4,400 *	4,800 *		4,200	150

Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



222
WAGON

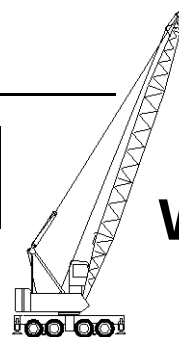
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
160 Ft. Boom							
26	81.9	166.2	47,700 *	47,700 *	47,700 *	47,700 *	26
28	81.2	165.9	47,300 *	47,300 *	47,300 *	47,300 *	28
30	80.5	165.6	46,900 *	46,900 *	46,100	46,900 *	30
32	79.7	165.2	46,500 *	46,500 *	42,300	45,200	32
34	79.0	164.8	44,100	46,200 *	39,100	41,700	34
36	78.3	164.4	40,900	43,500	36,300	38,700	36
38	77.6	164.0	38,100	40,600	33,800	36,000	38
40	76.8	163.5	35,700	37,900	31,600	33,600	40
45	75.0	162.3	30,600	32,500	27,000	28,700	45
50	73.1	160.8	26,600	28,300	23,400	24,900	50
55	71.2	159.2	23,500	24,900	20,600	21,900	55
60	69.3	157.4	20,900	22,200	18,200	19,400	60
65	67.4	155.4	18,700	19,900	16,300	17,300	65
70	65.4	153.2	16,800	17,900	14,600	15,600	70
75	63.5	150.8	15,300	16,200	13,200	14,100	75
80	61.4	148.2	13,900	14,800	11,900	12,800	80
85	59.4	145.3	12,700	13,500	10,900	11,600	85
90	57.3	142.2	11,600	12,400	9,900	10,600	90
95	55.1	138.9	10,700	11,400	9,000	9,700	95
100	52.9	135.2	9,800	10,500	8,300	8,900	100
105	50.6	131.2	9,100	9,700	7,600	8,200	105
110	48.2	126.9	8,400	9,000	7,000	7,600	110
115	45.8	122.2	7,700	8,300	6,400	7,000	115
120	43.2	117.1	7,200	7,700	5,900	6,400	120
125	40.5	111.5	6,600	7,200	5,400	5,900	125
130	37.7	105.4	6,100	6,700	5,000	5,500	130
135	34.6	98.5	5,700	6,200	4,600	5,000	135
140	31.3	90.7	5,300	5,800	4,200	4,600	140
145	27.7	81.9	4,900	5,400		4,300	145
150	23.5	71.4	4,500	5,000			150
155	18.5	58.3	4,200	4,600			155



Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
 ANSI B30.5
 Requirements



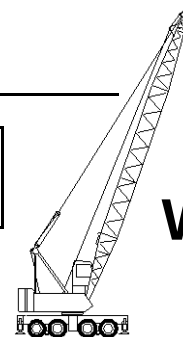
222
WAGON

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
170 Ft. Boom							
28	81.7	176.0	40,600 *	40,600 *	40,600 *	40,600 *	28
30	81.0	175.7	40,200 *	40,200 *	40,200 *	40,200 *	30
32	80.4	175.4	39,900 *	39,900 *	39,900 *	39,900 *	32
34	79.7	175.0	39,600 *	39,600 *	38,700	39,600 *	34
36	79.0	174.6	39,300 *	39,300 *	35,900	38,300	36
38	78.3	174.2	37,800	38,900 *	33,500	35,700	38
40	77.6	173.8	35,400	37,600	31,300	33,300	40
45	75.9	172.6	30,300	32,200	26,700	28,500	45
50	74.1	171.2	26,400	28,000	23,100	24,700	50
55	72.4	169.7	23,200	24,600	20,300	21,600	55
60	70.6	168.1	20,600	21,900	18,000	19,200	60
65	68.8	166.2	18,400	19,600	16,000	17,100	65
70	67.0	164.1	16,600	17,700	14,400	15,300	70
75	65.1	161.9	15,000	16,000	12,900	13,800	75
80	63.3	159.5	13,600	14,500	11,700	12,500	80
85	61.3	156.8	12,400	13,300	10,600	11,400	85
90	59.4	154.0	11,400	12,200	9,700	10,400	90
95	57.4	150.9	10,400	11,200	8,800	9,500	95
100	55.4	147.6	9,600	10,300	8,100	8,700	100
105	53.3	143.9	8,800	9,500	7,400	8,000	105
110	51.2	140.1	8,100	8,800	6,700	7,300	110
115	49.0	135.9	7,500	8,100	6,200	6,700	115
120	46.7	131.3	6,900	7,500	5,700	6,200	120
125	44.3	126.4	6,400	6,900	5,200	5,700	125
130	41.9	121.0	5,900	6,400	4,800	5,200	130
135	39.3	115.2	5,500	6,000	4,300	4,800	135
140	36.5	108.7	5,100	5,500	4,000	4,400	140
145	33.6	101.6	4,700	5,100		4,100	145
150	30.4	93.5	4,300	4,800			150
155	26.9	84.3	4,000	4,400			155
160	22.8	73.4		4,000 *			160

Liftcrane Boom Capacities

Boom No. 222 With Open Throat Top
53,300 Lb. and 63,300 Lb. Counterweight
Static Rating Over End or 360 Degrees On Rubber

Meets
ANSI B30.5
Requirements



222
WAGON

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	63,300 Lb. Counterweight		53,300 Lb. Counterweight		Oper. Rad. Feet
			Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	Boom Capacity 360 Deg. Pounds	Boom Capacity End Pounds	
180 Ft. Boom							
30	81.5	185.8	35,200 *	35,200 *	35,200 *	35,200 *	30
32	80.9	185.5	34,900 *	34,900 *	34,900 *	34,900 *	32
34	80.3	185.2	34,600 *	34,600 *	34,600 *	34,600 *	34
36	79.6	184.8	34,300 *	34,300 *	34,300 *	34,300 *	36
38	79.0	184.4	34,000 *	34,000 *	33,200	34,000 *	38
40	78.3	184.0	33,700 *	33,700 *	31,000	33,000	40
45	76.7	182.9	30,100	31,900	26,400	28,200	45
50	75.0	181.6	26,100	27,800	22,900	24,400	50
55	73.4	180.2	23,000	24,400	20,100	21,400	55
60	71.7	178.6	20,400	21,700	17,700	18,900	60
65	70.0	176.9	18,200	19,400	15,800	16,900	65
70	68.3	175.0	16,400	17,400	14,100	15,100	70
75	66.6	172.9	14,800	15,800	12,700	13,600	75
80	64.8	170.6	13,400	14,300	11,500	12,300	80
85	63.1	168.1	12,200	13,100	10,400	11,200	85
90	61.3	165.5	11,200	12,000	9,400	10,200	90
95	59.4	162.6	10,200	11,000	8,600	9,300	95
100	57.6	159.6	9,400	10,100	7,800	8,500	100
105	55.7	156.2	8,600	9,300	7,200	7,800	105
110	53.7	152.7	7,900	8,600	6,500	7,100	110
115	51.7	148.9	7,300	7,900	6,000	6,500	115
120	49.6	144.8	6,700	7,300	5,500	6,000	120
125	47.5	140.3	6,200	6,700	5,000	5,500	125
130	45.3	135.6	5,700	6,200	4,500	5,000	130
135	43.0	130.4	5,300	5,800	4,100	4,600	135
140	40.6	124.8	4,900	5,300		4,200	140
145	38.1	118.7	4,500	4,900			145
150	35.5	111.9	4,100	4,500			150
155	32.6	104.5		4,200			155