

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

**CAUTION: OUTSIDE
ASSIST REQUIRED**

CAPACITIES FOR VARIOUS BOOM LENGTHS, BOOM ANGLES, LUFFING JIB LENGTHS, AND LUFFING JIB 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 INDICATED BY (b) REQUIRE 4,800 LB. MINIMUM BLOCK WEIGHT.

UPPER LUFFING JIB POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 30,000 LBS. IN ALL CASES, UPPER LUFFING JIB POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN LUFFING JIB CAPACITIES.

200' THRU 250' BOOM LENGTHS REQUIRE ONLY THE MIDDLE 3 SHEAVES TO BE USED ON THE LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM THE LOWER BOOM POINT.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND LUFFING JIB POINT SHEAVES, IS CONSIDERED PART OF THE LUFFING JIB LOAD. BOOM AND LUFFING JIB ARE NOT TO BE LOWERED BEYOND RADI WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. DURING OPERATION, BOOM MUST BE MAINTAINED AT ONE OF THE SELECTED ANGLES SHOWN IN CHART. REFER TO LUFFING JIB ASSEMBLY NO. 172894 AND NO. 174421 OR NO. 174308 AND NO. 175107, WIRE ROPE SPECIFICATION CHART NO. 7671-A, AND LUFFING JIB RAISING PROCEDURE CHART NO. 7652-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.

MACHINE MAY BE OPERATED WITHIN WIND LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON THE CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A LOAD WITH A LARGE 'SAIL AREA' AND MUST BE COMPENSATED FOR ACCORDINGLY BY REDUCING LOAD RATINGS, REDUCING OPERATING SPEEDS OR BY A COMBINATION OF BOTH. RECOMMEND STOPPING OPERATION WHEN WIND IS ABOVE OPERATING CONDITIONS STATED AND LOWERING BOOM AND LUFFING JIB TO GROUND WHEN WIND IS ABOVE 50 MPH. REFER TO MAXIMUM ALLOWABLE WIND CONDITIONS CHART NO. 7677-A.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE WITH BOOM AND LUFFING JIB WITHIN ANGLE RANGE SHOWN IN CAPACITY CHART. REFER TO MAXIMUM ALLOWABLE TRAVEL SPECIFICATION CHART NO. 7679-A.

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. LUFFING JIB ANGLE IS ANGLE BETWEEN HORIZONTAL AND CENTERLINE OF LUFFING JIB BUTT AND INSERTS, AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. LUFFING JIB POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF LUFFING JIB POINT SHAFT.

MACHINE EQUIPPED WITH 30'9" CRAWLERS, 48" TREADS, 28' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/2" BOOM PENDANTS, 10 PART LUFFING JIB HOIST REEVING, TWO 1-1/2" LUFFING JIB PENDANTS AND BACKSTAYS, 207,000 LB. CRANE COUNTERWEIGHT, AND TWO 30,000 LB. CARBODY COUNTERWEIGHTS.

FOR WINDS GREATER THAN 15 MPH, DO NOT OPERATE LUFFING JIB LENGTHS ABOVE THE FOLLOWING LUFFING JIB ANGLES OR LUFFING JIB MAY COME OVER BACKWARDS WITH ONLY THE LOAD BLOCK.	
LUFFING JIB LENGTH - FEET	MAXIMUM LUFFING JIB ANGLE
110 - 120	65 DEGREES
130 - 200	70 DEGREES

WIND LIMITS DURING OPERATION			
BASED ON WIND VELOCITY MEASURED AT 100 FT. ELEVATION WITH VELOCITY FACTOR FOR SUBURBAN AREAS, CITY OUTSKIRTS, AND ROLLING TERRAIN			
20 MPH MAXIMUM WIND VELOCITY		15 MPH MAXIMUM WIND VELOCITY	
BOOM LENGTH FEET	LUFFING JIB LENGTH FEET	BOOM LENGTH FEET	LUFFING JIB LENGTH FEET
210	110 - 140	200	180 - 200
220	110 - 130	210	150 - 200
230	110 - 120	220	140 - 200
		230	130 - 200
		240	110 - 200
		250	110 - 200

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BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE
ASSIST REQUIRED

200 FT. BOOM, 200 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
65	75.9	403.7	45,400*			
70	74.4	402.3	44,500*			
75	72.9	400.8	43,600*			
80	71.4	399.2	42,600*			
85	69.8	397.4	41,600*			
90	68.3	395.4	40,400*			
95	66.8	393.3	39,300*			
100	65.2	391.1	38,100*	70.6	396.8	46,400*
105	63.6	388.6	36,800*	69.1	395.0	45,900*
110	62.0	386.0	35,600*	67.6	393.0	45,400*
115	60.3	383.2	34,300*	66.0	390.8	44,800*
120	58.7	380.2	33,000*	64.4	388.4	44,100*
125	57.0	377.1	31,700*	62.8	385.9	43,300*
130	55.2	373.6	30,400*	61.2	383.2	42,400*
135	53.5	370.0	29,100*	59.5	380.3	41,200*
140	51.6	366.1	27,900*	57.8	377.2	39,500*
145	49.8	362.0	26,700*	56.1	373.9	37,800*
150	47.9	357.6	25,500*	54.4	370.4	35,700*
155	45.9	352.8	24,300*	52.6	366.7	33,600*
160	43.9	347.7	23,200*	50.8	362.7	31,600*
165	41.7	342.3	22,200*	48.9	358.4	29,800*
170	39.5	336.3	21,200*	46.9	353.8	28,100*
175	37.2	329.9	20,200*	44.9	348.9	26,500*
180	34.7	323.0	19,300*	42.8	343.6	25,100*
185	32.1	315.3	18,400*	40.7	338.0	23,700*
190	29.3	306.7	17,600*	38.4	331.8	22,400*
195	26.1	297.0	16,800*	36.0	325.1	21,200*
200	22.6	285.8	16,000*	33.5	317.8	20,100*
205	18.5	272.2	15,400*	30.8	309.8	19,100*
210	13.1	254.1	14,200*	27.8	300.7	18,100*
215				24.5	290.3	17,100*
220				20.7	278.1	16,200*
225				16.1	262.8	15,400*
230				9.4	240.0	14,100*

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LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE
ASSIST REQUIRED

210 FT. BOOM, 150 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
55	75.1	364.7	65,400*			
60	73.1	363.3	63,600*			
65	71.1	361.6	61,600*			
70	69.1	359.7	59,500*			
75	67.0	357.7	57,300*			
80	64.9	355.4	55,000*			
85	62.8	352.9	52,600*	70.5	359.5	66,100*
90	60.6	350.1	50,200*	68.4	357.5	63,900*
95	58.4	347.1	47,800*	66.4	355.4	61,700*
100	56.1	343.8	45,500*	64.3	353.1	59,500*
105	53.7	340.3	43,200*	62.1	350.5	57,400*
110	51.3	336.4	40,900*	59.9	347.7	55,300*
115	48.8	332.1	38,700*	57.7	344.6	53,300*
120	46.2	327.4	36,700*	55.4	341.2	51,400*
125	43.5	322.3	34,700*	53.0	337.5	49,600*
130	40.6	316.7	32,800*	50.5	333.5	47,800*
135	37.5	310.4	31,100*	48.0	329.1	46,000*
140	34.2	303.4	29,400*	45.4	324.3	43,200*
145	30.6	295.3	27,900*	42.6	319.1	40,600*
150	26.5	286.0	26,400*	39.7	313.2	38,200*
155	21.8	274.6	25,100*	36.5	306.7	36,100*
160	15.7	259.4	23,900*	33.1	299.4	34,100*
165	3.8	228.7	22,500*	29.4	291.0	32,300*
170				25.2	281.1	30,600*
175				20.1	268.8	29,000*
180				13.2	251.6	27,500*

210 FT. BOOM, 170 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	75.2	384.1	55,200*			
65	73.4	382.6	53,900*			
70	71.6	381.0	52,400*			
75	69.9	379.2	50,800*			
80	68.0	377.3	49,200*			
85	66.2	375.1	47,500*			
90	64.3	372.8	45,700*			
95	62.5	370.2	43,900*	69.3	377.1	56,300*
100	60.5	367.4	42,000*	67.5	375.0	55,400*
105	58.6	364.5	40,200*	65.6	372.8	54,200*
110	56.6	361.2	38,400*	63.8	370.4	52,400*
115	54.5	357.7	36,600*	61.9	367.8	50,700*
120	52.4	354.0	34,800*	59.9	365.0	49,000*
125	50.2	349.9	33,100*	57.9	361.9	47,400*
130	48.0	345.5	31,500*	55.9	358.6	45,800*
135	45.7	340.7	29,900*	53.9	355.0	44,200*
140	43.2	335.6	28,400*	51.7	351.2	42,700*
145	40.7	329.9	27,000*	49.5	347.0	40,300*
150	38.0	323.7	25,700*	47.3	342.5	37,900*
155	35.1	316.9	24,400*	44.9	337.6	35,700*
160	32.1	309.2	23,200*	42.4	332.3	33,700*
165	28.7	300.5	22,000*	39.9	326.5	31,800*
170	24.9	290.4	21,000*	37.1	320.1	30,100*
175	20.4	278.2	20,000*	34.2	313.0	28,500*
180	14.7	262.0	19,100*	31.0	305.1	27,000*
185	3.5	229.2	17,700*	27.6	296.0	25,600*
190				23.6	285.4	24,300*
195				18.8	272.2	23,100*
200				12.4	253.8	21,800*

210 FT. BOOM, 160 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	74.2	373.7	59,300*			
65	72.3	372.1	57,700*			
70	70.4	370.4	55,900*			
75	68.5	368.5	54,000*			
80	66.6	366.4	52,000*			
85	64.6	364.1	50,000*			
90	62.6	361.5	47,900*	69.9	368.3	60,000*
95	60.6	358.8	45,800*	67.9	366.3	59,300*
100	58.5	355.8	43,700*	66.0	364.1	57,300*
105	56.3	352.5	41,700*	64.0	361.7	55,400*
110	54.1	349.0	39,600*	62.0	359.1	53,500*
115	51.9	345.2	37,700*	59.9	356.3	51,600*
120	49.6	341.0	35,700*	57.8	353.2	49,800*
125	47.1	336.5	33,900*	55.7	349.9	48,100*
130	44.6	331.6	32,100*	53.5	346.3	46,500*
135	42.0	326.2	30,500*	51.2	342.4	44,900*
140	39.2	320.3	28,900*	48.8	338.1	42,600*
145	36.3	313.7	27,400*	46.4	333.5	40,100*
150	33.1	306.3	26,000*	43.8	328.4	37,700*
155	29.6	298.0	24,700*	41.2	322.8	35,600*
160	25.7	288.2	23,400*	38.3	316.7	33,600*
165	21.1	276.4	22,300*	35.3	309.9	31,800*
170	15.2	260.7	21,300*	32.0	302.3	30,100*
175	3.6	228.9	19,800*	28.4	293.6	28,500*
180				24.3	283.3	27,000*
185				19.4	270.5	25,700*
190				12.8	252.7	24,300*

210 FT. BOOM, 180 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	76.0	394.4	51,300*			
65	74.4	393.1	50,200*			
70	72.7	391.6	48,900*			
75	71.0	389.9	47,600*			
80	69.3	388.0	46,300*			
85	67.6	386.0	44,800*			
90	65.9	383.8	43,300*			
95	64.1	381.4	41,700*	70.5	387.8	52,200*
100	62.3	378.9	40,100*	68.8	385.9	51,500*
105	60.5	376.1	38,500*	67.1	383.8	50,700*
110	58.6	373.1	36,900*	65.3	381.5	49,800*
115	56.8	369.9	35,300*	63.6	379.1	48,800*
120	54.8	366.5	33,700*	61.8	376.5	47,300*
125	52.8	362.7	32,200*	59.9	373.6	45,700*
130	50.8	358.8	30,600*	58.1	370.6	44,300*
135	48.7	354.5	29,200*	56.2	367.3	42,800*
140	46.5	349.8	27,800*	54.2	363.8	41,400*
145	44.3	344.8	26,400*	52.2	360.0	39,700*
150	41.9	339.4	25,200*	50.2	355.9	37,300*
155	39.5	333.5	23,900*	48.0	351.5	35,100*
160	36.9	327.1	22,800*	45.8	346.8	33,100*
165	34.1	319.9	21,700*	43.6	341.6	31,300*
170	31.1	312.0	20,600*	41.2	336.1	29,500*
175	27.8	303.0	19,700*	38.7	330.0	27,900*
180	24.2	292.6	18,700*	36.0	323.4	26,500*
185	19.8	279.9	17,900*	33.2	316.0	25,100*
190	14.3	263.2	17,100*	30.1	307.8	23,800*
195	3.4	229.5	15,400*	26.8	298.4	22,600*
200				22.9	287.4	21,400*
205				18.3	273.8	20,300*
210				12.0	254.8	19,200*



LIFTCRANE LUFFING JIB CAPACITIES M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

**CAUTION: OUTSIDE
ASSIST REQUIRED**

220 FT. BOOM, 110 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
45	75.2	336.1	87,000* ^b			
50	72.4	334.6	84,100* ^b			
55	69.7	332.8	80,900*			
60	66.9	330.7	77,400*			
65	64.0	328.4	73,800*			
70	61.0	325.7	70,100*			
75	58.0	322.7	66,300*	69.3	330.9	79,500* ^b
80	54.8	319.3	62,700*	66.5	328.8	76,200*
85	51.6	315.4	59,100*	63.6	326.4	73,000*
90	48.1	311.1	55,600*	60.6	323.7	69,900*
95	44.5	306.2	52,300*	57.6	320.6	66,900*
100	40.6	300.6	49,100*	54.4	317.1	64,100*
105	36.3	294.2	46,200*	51.1	313.2	61,500*
110	31.6	286.5	43,500*	47.6	308.8	59,000*
115	26.0	277.2	40,900*	43.9	303.8	56,700*
120	19.0	264.7	38,700*	40.0	298.2	54,400*
125	6.6	241.5	36,700*	35.7	291.6	52,300*
130				30.9	283.7	50,200*
135				25.2	274.1	47,100*
140				17.9	261.0	44,200*

220 FT. BOOM, 120 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
50	74.0	345.0	78,500* ^b			
55	71.4	343.4	75,900*			
60	68.9	341.6	73,000*			
65	66.3	339.4	69,900*			
70	63.7	337.0	66,700*			
75	60.9	334.3	63,400*			
80	58.2	331.3	60,100*	68.5	339.6	73,400*
85	55.3	328.0	56,900*	65.9	337.5	70,500*
90	52.3	324.2	53,700*	63.3	335.0	67,600*
95	49.2	320.0	50,700*	60.6	332.3	64,900*
100	45.9	315.4	47,800*	57.8	329.3	62,200*
105	42.5	310.1	45,000*	54.9	325.8	59,800*
110	38.7	304.2	42,300*	51.9	322.0	57,400*
115	34.7	297.3	39,900*	48.8	317.8	55,200*
120	30.2	289.2	37,600*	45.5	313.1	53,000*
125	24.9	279.4	35,500*	42.0	307.7	51,000*
130	18.2	266.3	33,600*	38.2	301.6	49,100*
135	6.3	242.0	32,000*	34.1	294.6	47,000*
140				29.5	286.4	44,100*
145				24.1	276.2	41,500*
150				17.1	262.4	39,100*

220 FT. BOOM, 130 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
50	75.2	355.4	73,300*			
55	72.9	354.0	71,100*			
60	70.6	352.3	68,700*			
65	68.2	350.3	66,100*			
70	65.8	348.1	63,400*			
75	63.4	345.7	60,500*			
80	60.9	343.0	57,600*	70.3	350.4	70,800*
85	58.3	340.0	54,800*	67.9	348.4	68,100*
90	55.7	336.7	51,900*	65.5	346.2	65,500*
95	52.9	333.0	49,200*	63.0	343.7	63,000*
100	50.1	328.9	46,500*	60.5	341.0	60,600*
105	47.1	324.5	43,900*	57.9	337.9	58,200*
110	44.0	319.4	41,400*	55.3	334.6	56,000*
115	40.7	313.9	39,100*	52.5	330.8	53,900*
120	37.1	307.5	36,900*	49.7	326.7	51,800*
125	33.3	300.3	34,800*	46.7	322.2	49,900*
130	28.9	291.8	32,900*	43.6	317.1	48,100*
135	23.9	281.5	31,100*	40.2	311.4	46,300*
140	17.4	267.8	29,600*	36.6	305.0	44,000*
145	6.1	242.5	28,200*	32.7	297.6	41,400*
150				28.3	288.9	39,000*
155				23.1	278.2	36,800*
160				16.4	263.8	34,800*

220 FT. BOOM, 140 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
55	74.2	364.4	66,400*			
60	72.0	362.8	64,400*			
65	69.9	361.1	62,200*			
70	67.7	359.1	59,900*			
75	65.4	356.8	57,500*			
80	63.1	354.4	54,900*			
85	60.8	351.7	52,400*	69.6	359.2	65,500*
90	58.4	348.7	49,900*	67.4	357.1	63,200*
95	56.0	345.4	47,400*	65.1	354.9	60,900*
100	53.4	341.8	45,000*	62.8	352.4	58,600*
105	50.8	337.8	42,600*	60.5	349.6	56,400*
110	48.1	333.5	40,300*	58.1	346.6	54,300*
115	45.3	328.7	38,100*	55.6	343.3	52,300*
120	42.3	323.3	36,000*	53.1	339.6	50,400*
125	39.1	317.4	34,000*	50.5	335.6	48,500*
130	35.7	310.8	32,200*	47.7	331.2	46,800*
135	32.0	303.2	30,500*	44.9	326.3	45,100*
140	27.8	294.3	28,900*	41.9	320.9	43,500*
145	23.0	283.5	27,400*	38.7	314.9	40,900*
150	16.8	269.3	26,000*	35.2	308.2	38,600*
155	5.8	243.0	24,900*	31.5	300.4	36,400*
160				27.2	291.3	34,400*
165				22.2	280.2	32,500*
170				15.8	265.2	30,800*

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

**CAUTION: OUTSIDE
ASSIST REQUIRED**

220 FT. BOOM, 190 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
65	75.3	413.5	44,600*			
70	73.7	412.1	43,600*			
75	72.2	410.5	42,500*			
80	70.6	408.8	41,400*			
85	69.0	406.9	40,200*			
90	67.3	404.9	39,100*			
95	65.7	402.7	37,800*			
100	64.0	400.3	36,500*	70.4	406.9	45,500*
105	62.3	397.7	35,100*	68.7	405.0	45,000*
110	60.6	395.0	33,800*	67.1	403.0	44,400*
115	58.8	392.0	32,500*	65.5	400.7	43,600*
120	57.1	388.8	31,100*	63.8	398.3	42,700*
125	55.2	385.4	29,800*	62.1	395.7	41,800*
130	53.4	381.8	28,500*	60.4	392.9	40,700*
135	51.5	377.9	27,200*	58.6	389.9	39,500*
140	49.5	373.7	26,000*	56.8	386.7	38,200*
145	47.5	369.2	24,800*	55.0	383.3	37,000*
150	45.4	364.4	23,600*	53.1	379.6	35,800*
155	43.2	359.2	22,600*	51.2	375.7	34,600*
160	40.9	353.6	21,500*	49.2	371.5	33,100*
165	38.5	347.5	20,500*	47.2	366.9	31,200*
170	36.0	340.8	19,500*	45.1	362.0	29,400*
175	33.4	333.5	18,400*	42.9	356.8	27,800*
180	30.5	325.3	17,200*	40.6	351.1	26,300*
185	27.3	316.1	16,000*	38.2	344.9	24,900*
190	23.8	305.5	15,000*	35.7	338.2	23,600*
195	19.6	292.6	14,000*	33.0	330.8	22,400*
200	14.3	275.8	13,200*	30.1	322.5	21,200*
205	4.9	245.1	12,600*	26.9	313.1	20,100*
210				23.2	302.2	19,100*
215				19.0	289.0	18,100*
220				13.4	271.4	17,200*

220 FT. BOOM, 200 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
70	74.6	422.5	40,600*			
75	73.1	421.0	39,700*			
80	71.6	419.4	38,700*			
85	70.1	417.6	37,700*			
90	68.5	415.7	36,700*			
95	67.0	413.6	35,700*			
100	65.4	411.4	34,500*			
105	63.8	409.0	33,400*	69.9	415.8	41,700*
110	62.2	406.4	32,200*	68.3	413.8	41,200*
115	60.6	403.6	31,000*	66.8	411.7	40,700*
120	58.9	400.7	29,800*	65.2	409.4	40,000*
125	57.2	397.5	28,600*	63.6	407.0	39,200*
130	55.5	394.1	27,500*	62.0	404.4	38,400*
135	53.7	390.5	26,300*	60.3	401.6	37,500*
140	51.9	386.7	25,200*	58.7	398.6	36,500*
145	50.1	382.6	24,100*	57.0	395.4	35,500*
150	48.1	378.2	23,000*	55.2	392.0	34,400*
155	46.2	373.5	22,000*	53.5	388.4	33,300*
160	44.1	368.4	21,000*	51.7	384.5	32,100*
165	42.0	363.0	19,600*	49.8	380.3	30,600*
170	39.8	357.2	18,300*	47.9	375.9	28,900*
175	37.5	350.9	17,100*	45.9	371.2	27,300*
180	35.1	344.0	15,900*	43.9	366.1	25,800*
185	32.5	336.4	14,700*	41.7	360.6	24,300*
190	29.7	328.0	13,600*	39.5	354.7	23,000*
195	26.6	318.5	12,600*	37.2	348.3	21,800*
200	23.1	307.5	11,700*	34.7	341.3	20,600*
205	19.1	294.3	10,800*	32.1	333.7	19,600*
210	14.0	277.0	10,100*	29.3	325.1	18,500*
215	4.8	245.5	9,500*	26.2	315.4	17,600*
220				22.6	304.2	16,700*
225				18.5	290.6	15,800*
230				13.1	272.5	14,900*

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE LUFFING JIB CAPACITIES M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE
ASSIST REQUIRED

230 FT. BOOM, 150 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
55	75.4	384.9	56,500*			
60	73.4	383.5	55,000*			
65	71.4	381.8	53,400*			
70	69.4	380.0	51,500*			
75	67.3	378.0	49,700*			
80	65.2	375.7	47,900*			
85	63.1	373.2	45,900*			
90	60.9	370.5	43,900*	69.4	378.4	56,700*
95	58.7	367.5	42,000*	67.4	376.3	55,600*
100	56.4	364.3	40,000*	65.3	374.1	54,200*
105	54.1	360.8	38,100*	63.2	371.6	52,200*
110	51.7	356.9	36,300*	61.0	368.9	50,400*
115	49.2	352.7	34,500*	58.8	366.0	48,600*
120	46.6	348.1	32,800*	56.5	362.7	46,900*
125	43.9	343.1	31,100*	54.2	359.2	45,200*
130	41.0	337.5	29,600*	51.8	355.4	43,500*
135	38.0	331.3	28,100*	49.3	351.2	42,000*
140	34.7	324.4	26,700*	46.7	346.6	40,400*
145	31.1	316.5	25,300*	44.0	341.6	38,600*
150	27.1	307.4	24,100*	41.1	336.0	36,700*
155	22.5	296.3	23,000*	38.1	329.9	34,900*
160	16.7	281.9	22,000*	34.8	323.0	33,200*
165	6.9	256.9	21,100*	31.3	315.1	31,500*
170				27.3	306.0	29,900*
175				22.7	295.1	28,400*
180				16.9	280.8	26,900*
185				7.5	256.8	25,500*

230 FT. BOOM, 160 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	74.5	393.9	51,400*			
65	72.6	392.4	50,000*			
70	70.7	390.7	48,500*			
75	68.8	388.8	46,900*			
80	66.9	386.7	45,200*			
85	64.9	384.4	43,600*			
90	62.9	381.9	41,900*	70.8	389.0	52,800*
95	60.9	379.2	40,200*	68.9	387.1	52,000*
100	58.8	376.2	38,400*	66.9	385.1	51,100*
105	56.6	373.0	36,700*	65.0	382.8	49,900*
110	54.5	369.5	35,000*	63.0	380.3	48,600*
115	52.2	365.7	33,400*	60.9	377.6	46,900*
120	49.9	361.6	31,800*	58.8	374.6	45,300*
125	47.5	357.1	30,200*	56.7	371.4	43,700*
130	45.0	352.3	28,800*	54.5	367.9	42,200*
135	42.4	347.0	27,300*	52.3	364.2	40,700*
140	39.6	341.1	26,000*	50.0	360.1	39,300*
145	36.7	334.6	24,700*	47.6	355.6	37,600*
150	33.5	327.4	23,500*	45.1	350.8	35,900*
155	30.1	319.2	22,400*	42.5	345.5	34,300*
160	26.3	309.7	21,300*	39.7	339.6	32,700*
165	21.8	298.2	20,400*	36.8	333.2	31,100*
170	16.1	283.3	19,500*	33.7	326.0	29,600*
175	6.7	257.4	18,700*	30.2	317.8	28,100*
180				26.4	308.4	26,700*
185				22.0	297.0	25,400*
190				16.4	282.2	24,100*
195				7.3	257.4	22,600*

230 FT. BOOM, 170 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	75.4	404.3	48,100*			
65	73.7	402.8	46,900*			
70	71.9	401.2	45,700*			
75	70.1	399.5	44,300*			
80	68.3	397.5	42,900*			
85	66.5	395.4	41,400*			
90	64.6	393.1	39,900*			
95	62.7	390.6	38,400*	70.2	397.8	48,600*
100	60.8	387.8	36,900*	68.4	395.9	47,900*
105	58.8	384.9	35,300*	66.5	393.8	47,100*
110	56.8	381.7	33,800*	64.7	391.5	46,000*
115	54.8	378.2	32,300*	62.8	389.0	44,900*
120	52.7	374.5	30,800*	60.9	386.2	43,700*
125	50.5	370.5	29,400*	58.9	383.3	42,400*
130	48.3	366.1	28,000*	56.9	380.1	41,000*
135	46.0	361.4	26,700*	54.9	376.7	39,600*
140	43.6	356.3	25,400*	52.8	372.9	38,100*
145	41.0	350.7	24,200*	50.6	368.9	36,600*
150	38.4	344.6	23,100*	48.4	364.6	35,100*
155	35.6	337.9	22,000*	46.1	359.9	33,600*
160	32.5	330.3	20,900*	43.7	354.8	32,100*
165	29.2	321.8	19,900*	41.1	349.2	30,700*
170	25.4	311.9	19,000*	38.5	343.1	29,300*
175	21.1	300.1	18,200*	35.7	336.4	27,900*
180	15.6	284.6	17,400*	32.6	328.9	26,600*
185	6.5	257.9	16,800*	29.3	320.4	25,300*
190				25.6	310.6	24,100*
195				21.3	298.9	22,900*
200				15.9	283.6	21,800*
205				7.1	258.0	20,100*

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE LUFFING JIB CAPACITIES M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE
ASSIST REQUIRED

230 FT. BOOM, 200 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
70	74.7	432.6	37,300*			
75	73.2	431.2	36,500*			
80	71.7	429.5	35,600*			
85	70.2	427.8	34,600*			
90	68.6	425.9	33,700*			
95	67.1	423.8	32,700*			
100	65.5	421.5	31,700*			
105	63.9	419.1	30,600*	70.2	426.1	38,200*
110	62.3	416.6	29,600*	68.7	424.2	37,700*
115	60.7	413.8	28,500*	67.1	422.2	37,200*
120	59.0	410.9	27,400*	65.6	419.9	36,500*
125	57.3	407.7	26,400*	64.0	417.5	35,800*
130	55.6	404.4	25,300*	62.4	415.0	35,100*
135	53.8	400.8	24,300*	60.7	412.2	34,200*
140	52.0	396.9	23,200*	59.1	409.3	33,400*
145	50.2	392.9	22,300*	57.4	406.1	32,400*
150	48.3	388.5	21,300*	55.7	402.8	31,500*
155	46.3	383.8	20,400*	53.9	399.2	30,400*
160	44.3	378.8	19,100*	52.1	395.4	29,400*
165	42.2	373.4	17,800*	50.3	391.3	28,400*
170	40.0	367.6	16,600*	48.4	387.0	27,300*
175	37.7	361.3	15,400*	46.4	382.3	26,300*
180	35.3	354.5	14,200*	44.4	377.3	25,200*
185	32.7	346.9	13,200*	42.3	371.9	24,200*
190	29.9	338.6	12,100*	40.1	366.1	23,200*
195	26.8	329.2	11,200*	37.8	359.9	22,100*
200	23.4	318.3	10,200*	35.4	353.0	20,900*
205	19.4	305.3	9,400*	32.8	345.5	19,800*
210	14.4	288.5	8,700*	30.0	337.2	18,800*
215	5.9	259.5	8,200*	26.9	327.8	17,800*
220				23.5	317.1	16,800*
225				19.6	304.2	15,600*
230				14.6	287.5	14,400*
235				6.5	259.6	13,400*



LIFT CRANE LUFFING JIB CAPACITIES M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE
ASSIST REQUIRED

240 FT. BOOM, 150 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
55	75.5	395.0	53,400*			
60	73.6	393.6	52,000*			
65	71.5	391.9	50,400*			
70	69.5	390.1	48,800*			
75	67.5	388.1	47,000*			
80	65.4	385.9	45,200*			
85	63.2	383.4	43,500*			
90	61.1	380.7	41,700*	69.9	388.7	53,300*
95	58.8	377.8	39,800*	67.9	386.8	52,400*
100	56.6	374.5	38,000*	65.8	384.6	51,200*
105	54.2	371.0	36,300*	63.7	382.2	49,400*
110	51.8	367.2	34,500*	61.5	379.5	47,600*
115	49.3	363.0	32,800*	59.3	376.6	45,900*
120	46.8	358.4	31,200*	57.1	373.5	44,200*
125	44.0	353.4	29,700*	54.7	370.0	42,600*
130	41.2	347.9	28,200*	52.3	366.3	41,100*
135	38.2	341.8	26,800*	49.9	362.2	39,600*
140	34.9	334.9	25,500*	47.3	357.7	38,200*
145	31.4	327.1	24,300*	44.6	352.7	36,800*
150	27.4	318.0	23,100*	41.8	347.3	35,100*
155	22.9	307.2	22,100*	38.8	341.3	33,500*
160	17.1	293.1	21,100*	35.6	334.6	31,800*
165	8.0	269.7	20,200*	32.2	327.1	30,300*
170				28.3	318.3	28,800*
175				23.9	307.9	27,400*
180				18.5	294.7	26,000*
185				10.7	274.7	24,700*

240 FT. BOOM, 160 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	74.6	404.0	48,600*			
65	72.7	402.5	47,300*			
70	70.8	400.8	45,900*			
75	68.9	398.9	44,400*			
80	67.0	396.8	42,800*			
85	65.0	394.6	41,200*			
90	63.0	392.1	39,700*			
95	61.0	389.4	38,100*	69.3	397.5	49,000*
100	58.9	386.4	36,400*	67.4	395.5	48,100*
105	56.8	383.2	34,800*	65.4	393.3	47,100*
110	54.6	379.8	33,300*	63.5	390.8	45,900*
115	52.4	376.0	31,700*	61.4	388.2	44,300*
120	50.1	371.9	30,200*	59.4	385.3	42,700*
125	47.7	367.5	28,800*	57.2	382.1	41,200*
130	45.2	362.6	27,400*	55.1	378.7	39,700*
135	42.6	357.3	26,100*	52.9	375.0	38,300*
140	39.8	351.5	24,800*	50.6	371.0	37,000*
145	36.9	345.1	23,600*	48.2	366.7	35,700*
150	33.8	337.9	22,500*	45.7	361.9	34,200*
155	30.4	329.8	21,400*	43.1	356.7	32,700*
160	26.5	320.4	20,400*	40.4	351.0	31,200*
165	22.1	309.1	19,500*	37.5	344.8	29,800*
170	16.6	294.5	18,700*	34.5	337.8	28,400*
175	7.7	270.4	18,000*	31.1	329.9	27,000*
180				27.4	320.8	25,700*
185				23.1	309.9	24,500*
190				17.9	296.2	23,300*
195				10.3	275.6	22,200*

240 FT. BOOM, 170 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	75.5	414.3	45,500*			
65	73.8	412.9	44,400*			
70	72.0	411.4	43,200*			
75	70.2	409.6	41,900*			
80	68.4	407.7	40,600*			
85	66.6	405.6	39,200*			
90	64.7	403.3	37,800*			
95	62.9	400.7	36,400*	70.6	408.2	45,800*
100	60.9	398.0	35,000*	68.8	406.3	45,100*
105	59.0	395.1	33,500*	67.0	404.2	44,300*
110	57.0	391.9	32,100*	65.1	402.0	43,500*
115	54.9	388.5	30,700*	63.3	399.5	42,400*
120	52.8	384.8	29,300*	61.3	396.8	41,300*
125	50.7	380.8	28,000*	59.4	394.0	40,000*
130	48.5	376.4	26,700*	57.4	390.8	38,600*
135	46.1	371.8	25,400*	55.4	387.4	37,300*
140	43.7	366.7	24,200*	53.3	383.8	36,000*
145	41.2	361.1	23,100*	51.1	379.9	34,700*
150	38.6	355.0	22,000*	48.9	375.6	33,400*
155	35.8	348.3	21,000*	46.6	371.0	32,000*
160	32.7	340.9	20,000*	44.3	366.0	30,600*
165	29.4	332.4	19,100*	41.8	360.6	29,300*
170	25.7	322.7	18,200*	39.1	354.6	28,000*
175	21.4	311.0	17,400*	36.4	348.1	26,700*
180	16.1	295.9	16,700*	33.4	340.8	25,500*
185	7.5	271.0	16,100*	30.1	332.5	24,300*
190				26.5	323.1	23,100*
195				22.4	311.9	22,000*
200				17.3	297.7	21,000*
205				10.0	276.5	20,000*

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFT CRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE
ASSIST REQUIRED

240 FT. BOOM, 200 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
70	74.8	442.7	35,300*			
75	73.3	441.3	34,500*			
80	71.8	439.6	33,700*			
85	70.3	437.9	32,800*			
90	68.7	436.0	31,900*			
95	67.2	433.9	30,900*			
100	65.6	431.7	30,000*			
105	64.0	429.3	29,000*	70.6	436.5	36,000*
110	62.4	426.8	28,000*	69.1	434.6	35,500*
115	60.8	424.0	27,000*	67.5	432.6	35,000*
120	59.1	421.1	26,000*	66.0	430.4	34,500*
125	57.4	417.9	24,900*	64.4	428.1	33,800*
130	55.7	414.6	24,000*	62.8	425.5	33,100*
135	54.0	411.0	23,000*	61.1	422.8	32,300*
140	52.2	407.2	22,000*	59.5	419.9	31,500*
145	50.3	403.1	21,100*	57.8	416.8	30,600*
150	48.4	398.8	19,800*	56.1	413.5	29,700*
155	46.5	394.1	18,500*	54.3	410.0	28,800*
160	44.4	389.2	17,300*	52.5	406.3	27,800*
165	42.3	383.8	16,100*	50.7	402.3	26,900*
170	40.1	378.0	14,900*	48.8	398.0	25,900*
175	37.9	371.8	13,800*	46.9	393.4	24,900*
180	35.4	365.0	12,700*	44.9	388.5	23,900*
185	32.9	357.5	11,700*	42.8	383.2	23,000*
190	30.1	349.2	10,700*	40.6	377.5	22,100*
195	27.0	339.9	9,800*	38.3	371.4	21,100*
200	23.7	329.1	9,000*	36.0	364.7	20,200*
205	19.7	316.3	8,200*	33.4	357.3	18,900*
210	14.8	299.8	7,500*	30.7	349.2	17,600*
215	6.9	272.7	7,000*	27.7	340.2	16,400*
220				24.4	329.8	15,200*
225				20.6	317.5	14,000*
230				16.0	302.0	12,900*
235				9.2	278.9	12,000*

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE
ASSIST REQUIRED

250 FT. BOOM, 150 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
55	75.7	405.1	50,600*			
60	73.7	403.7	49,200*			
65	71.7	402.0	47,800*			
70	69.7	400.2	46,200*			
75	67.6	398.2	44,600*			
80	65.5	396.0	42,900*			
85	63.4	393.6	41,200*			
90	61.2	390.9	39,600*	70.4	399.1	50,300*
95	59.0	388.0	37,900*	68.4	397.2	49,400*
100	56.7	384.8	36,200*	66.3	395.1	48,400*
105	54.4	381.3	34,500*	64.2	392.7	46,900*
110	52.0	377.5	32,900*	62.1	390.1	45,200*
115	49.5	373.3	31,300*	59.9	387.3	43,500*
120	46.9	368.8	29,800*	57.6	384.2	41,900*
125	44.2	363.8	28,300*	55.3	380.8	40,400*
130	41.4	358.3	27,000*	52.9	377.1	38,900*
135	38.4	352.2	25,700*	50.5	373.1	37,500*
140	35.2	345.4	24,400*	47.9	368.7	36,100*
145	31.7	337.7	23,200*	45.3	363.9	34,800*
150	27.7	328.7	22,200*	42.5	358.6	33,600*
155	23.2	318.0	21,100*	39.6	352.8	32,000*
160	17.6	304.2	20,200*	36.4	346.3	30,500*
165	9.0	282.2	19,400*	33.0	338.9	29,100*
170				29.3	330.5	27,700*
175				25.1	320.6	26,300*
180				20.0	308.2	25,100*
185				13.0	290.7	23,900*

250 FT. BOOM, 160 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	74.7	414.1	46,100*			
65	72.9	412.6	44,800*			
70	71.0	410.9	43,500*			
75	69.1	409.0	42,100*			
80	67.1	407.0	40,600*			
85	65.2	404.7	39,100*			
90	63.2	402.2	37,600*			
95	61.1	399.6	36,200*	69.8	407.9	46,200*
100	59.1	396.6	34,600*	67.9	406.0	45,400*
105	56.9	393.4	33,100*	65.9	403.8	44,500*
110	54.8	390.0	31,600*	63.9	401.4	43,500*
115	52.5	386.3	30,200*	61.9	398.8	41,900*
120	50.2	382.2	28,800*	59.9	395.9	40,400*
125	47.8	377.8	27,400*	57.8	392.9	39,000*
130	45.3	373.0	26,100*	55.6	389.5	37,600*
135	42.8	367.7	24,900*	53.4	385.9	36,300*
140	40.0	362.0	23,700*	51.1	382.0	35,000*
145	37.1	355.6	22,600*	48.8	377.7	33,700*
150	34.0	348.5	21,500*	46.3	373.0	32,500*
155	30.6	340.4	20,500*	43.8	368.0	31,200*
160	26.8	331.1	19,600*	41.1	362.4	29,900*
165	22.5	320.0	18,700*	38.3	356.3	28,500*
170	17.0	305.7	17,900*	35.2	349.5	27,200*
175	8.7	282.9	17,200*	32.0	341.8	25,900*
180				28.3	333.0	24,700*
185				24.2	322.7	23,500*
190				19.3	309.9	22,400*
195				12.6	291.8	21,300*

250 FT. BOOM, 170 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
60	75.7	424.4	43,200*			
65	73.9	423.0	42,100*			
70	72.1	421.5	41,000*			
75	70.4	419.7	39,800*			
80	68.6	417.8	38,500*			
85	66.7	415.7	37,200*			
90	64.9	413.4	35,800*			
95	63.0	410.9	34,500*			
100	61.1	408.2	33,200*	69.3	416.7	42,600*
105	59.1	405.3	31,800*	67.4	414.7	41,900*
110	57.1	402.1	30,500*	65.6	412.5	41,000*
115	55.1	398.7	29,200*	63.7	410.1	40,100*
120	53.0	395.0	27,900*	61.8	407.4	39,100*
125	50.8	391.0	26,600*	59.9	404.6	37,800*
130	48.6	386.7	25,400*	57.9	401.5	36,500*
135	46.3	382.1	24,200*	55.9	398.2	35,200*
140	43.9	377.0	23,100*	53.8	394.6	34,000*
145	41.4	371.5	22,000*	51.7	390.8	32,800*
150	38.8	365.5	21,000*	49.5	386.6	31,600*
155	36.0	358.8	20,000*	47.2	382.1	30,500*
160	32.9	351.4	18,900*	44.8	377.2	29,200*
165	29.7	343.1	17,700*	42.4	371.9	27,900*
170	26.0	333.4	16,600*	39.8	366.0	26,700*
175	21.8	321.9	15,700*	37.1	359.6	25,500*
180	16.5	307.1	14,800*	34.1	352.5	24,400*
185	8.4	283.6	14,000*	31.0	344.6	23,300*
190				27.5	335.5	22,200*
195				23.5	324.8	21,200*
200				18.7	311.5	20,200*
205				12.2	292.9	19,200*

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE LUFFING JIB CAPACITIES M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
207,000 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE
ASSIST REQUIRED

250 FT. BOOM, 200 FT. JIB

JIB OPER. RAD. FEET	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	JIB ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS
70	74.9	452.8	33,500*			
75	73.4	451.4	32,800*			
80	71.9	449.8	32,000*			
85	70.4	448.0	31,100*			
90	68.9	446.1	30,200*			
95	67.3	444.1	29,300*			
100	65.7	441.9	28,400*			
105	64.2	439.5	27,500*	71.0	446.9	34,000*
110	62.5	436.9	26,500*	69.4	445.0	33,600*
115	60.9	434.2	25,500*	67.9	443.0	33,100*
120	59.3	431.3	24,200*	66.3	440.9	32,600*
125	57.6	428.2	23,000*	64.8	438.6	32,000*
130	55.8	424.8	21,800*	63.2	436.1	31,300*
135	54.1	421.3	20,500*	61.5	433.4	30,600*
140	52.3	417.5	19,300*	59.9	430.6	29,800*
145	50.4	413.4	18,100*	58.2	427.5	29,000*
150	48.5	409.1	17,000*	56.5	424.3	28,100*
155	46.6	404.5	15,800*	54.8	420.8	27,300*
160	44.6	399.5	14,700*	53.0	417.1	26,400*
165	42.5	394.2	13,700*	51.2	413.2	25,300*
170	40.3	388.4	12,600*	49.3	409.0	24,200*
175	38.0	382.2	11,600*	47.4	404.5	23,000*
180	35.6	375.4	10,600*	45.4	399.6	21,800*
185	33.0	368.0	9,700*	43.3	394.4	20,600*
190	30.3	359.8	8,900*	41.2	388.9	19,500*
195	27.3	350.5	8,000*	38.9	382.8	18,300*
200	23.9	339.9	7,300*	36.6	376.3	17,100*
205	20.0	327.3	6,600*	34.0	369.1	16,000*
210	15.2	311.2	6,000*	31.4	361.2	14,900*
215	7.7	285.6	5,500*	28.5	352.4	13,800*
220				25.3	342.4	12,700*
225				21.6	330.6	11,700*
230				17.2	316.1	10,800*
235				11.2	295.8	9,900*