

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
93 890 kg CRANE COUNTERWEIGHT
27 220 kg 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 2 180 kg MINIMUM BLOCK WEIGHT.

UPPER LUFFING JIB POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 13 610 kg. IN ALL CASES, UPPER LUFFING JIB POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN LUFFING JIB CAPACITIES.

61.0m THRU 76.2m 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 RADII 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 22 m/s. 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 9 373 mm CRAWLERS, 1 219 mm TREADS, 8 534 mm RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 38 mm BOOM PENDANTS, 10 PART LUFFING JIB HOIST REEVING, TWO 38 mm LUFFING JIB PENDANTS AND BACKSTAYS, 93 890 kg CRANE COUNTERWEIGHT, AND TWO 13 610 kg CARBODY COUNTERWEIGHTS.

FOR WINDS GREATER THAN 7 m/s, 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 - METERS	MAXIMUM LUFFING JIB ANGLE
33.5 - 36.6	65 DEGREES
39.6 - 61.0	70 DEGREES

WIND LIMITS DURING OPERATION			
BASED ON WIND VELOCITY MEASURED AT 30m ELEVATION WITH VELOCITY FACTOR FOR SUBURBAN AREAS, CITY OUTSKIRTS, AND ROLLING TERRAIN			
9 m/s MAXIMUM WIND VELOCITY		7 m/s MAXIMUM WIND VELOCITY	
BOOM LENGTH METERS	LUFFING JIB LENGTH METERS	BOOM LENGTH METERS	LUFFING JIB LENGTH METERS
64.0	33.5 - 42.7	61.0	54.9 - 61.0
67.1	33.5 - 39.6	64.0	45.7 - 61.0
70.1	33.5 - 36.6	67.1	42.7 - 61.0
		70.1	39.6 - 61.0
		73.2	33.5 - 61.0
		76.2	33.5 - 61.0

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LUFFING JIB NO. 133 OR NO. 133A ON
 BOOM NO. 44 WITH HEAVY LIFT TOP
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

61.0m BOOM, 54.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	75.9	117.1	24 400*			
20.0	74.0	116.7	23 800*			
22.0	71.9	116.0	23 000*			
24.0	69.6	115.3	22 200*			
26.0	67.4	114.5	21 300*			
28.0	65.1	113.6	20 400*			
30.0	62.8	112.6	19 400*	68.9	114.6	24 600*
32.0	60.4	111.5	18 400*	66.7	113.8	24 200*
34.0	57.9	110.3	17 400*	64.4	112.9	23 600*
36.0	55.4	109.0	16 400*	62.0	111.8	22 600*
38.0	52.8	107.5	15 400*	59.6	110.7	21 700*
40.0	50.1	105.9	14 500*	57.1	109.4	20 700*
42.0	47.3	104.1	13 600*	54.6	108.1	19 500*
44.0	44.4	102.2	12 700*	52.0	106.6	17 800*
46.0	41.3	100.0	11 900*	49.3	104.9	16 500*
48.0	38.0	97.5	11 100*	46.4	103.1	15 200*
50.0	34.5	94.8	10 400*	43.4	101.0	14 100*
52.0	30.5	91.6	9 800*	40.3	98.8	13 100*
54.0	26.1	87.8	9 200*	36.9	96.2	12 200*
56.0	20.7	83.1	8 600*	33.2	93.3	11 300*
58.0				29.2	90.0	10 600*
60.0				24.5	85.9	9 900*
62.0				18.7	80.8	9 200*
64.0				10.0	72.7	8 300*

61.0m BOOM, 61.0m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	75.9	123.1	20 500*			
20.0	75.7	123.0	20 500*			
22.0	73.7	122.4	20 000*			
24.0	71.8	121.8	19 400*			
26.0	69.8	121.1	18 800*			
28.0	67.7	120.3	18 100*			
30.0	65.7	119.4	17 400*			
32.0	63.6	118.5	16 600*	69.1	120.4	20 800*
34.0	61.5	117.4	15 900*	67.1	119.6	20 500*
36.0	59.3	116.2	15 100*	65.0	118.7	20 100*
38.0	57.1	115.0	14 400*	62.9	117.7	19 600*
40.0	54.8	113.6	13 600*	60.8	116.6	19 100*
42.0	52.5	112.1	12 800*	58.6	115.4	18 200*
44.0	50.0	110.5	12 100*	56.4	114.1	17 200*
46.0	47.5	108.7	11 400*	54.1	112.7	16 000*
48.0	44.9	106.8	10 700*	51.7	111.2	14 700*
50.0	42.1	104.6	10 100*	49.2	109.5	13 600*
52.0	39.2	102.3	9 500*	46.7	107.7	12 600*
54.0	36.1	99.7	8 900*	44.0	105.7	11 700*
56.0	32.8	96.7	8 400*	41.2	103.5	10 900*
58.0	29.1	93.3	7 900*	38.3	101.0	10 100*
60.0	24.9	89.3	7 400*	35.1	98.3	9 400*
62.0	19.9	84.4	7 000*	31.6	95.2	8 800*
64.0	13.1	77.5	6 400*	27.8	91.7	8 200*
66.0				23.4	87.4	7 600*
68.0				18.0	82.0	7 100*
70.0				10.0	73.8	6 400*

61.0m BOOM, 57.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	75.1	119.9	22 200*			
20.0	74.9	119.8	22 100*			
22.0	72.8	119.3	21 500*			
24.0	70.8	118.6	20 800*			
26.0	68.6	117.8	20 100*			
28.0	66.5	117.0	19 300*			
30.0	64.3	116.0	18 400*			
32.0	62.1	115.0	17 600*	68.0	117.1	22 500*
34.0	59.8	113.9	16 700*	65.8	116.2	22 100*
36.0	57.5	112.7	15 800*	63.6	115.3	21 500*
38.0	55.1	111.3	14 900*	61.4	114.2	20 900*
40.0	52.6	109.8	14 100*	59.1	113.1	20 100*
42.0	50.1	108.2	13 200*	56.7	111.8	19 100*
44.0	47.4	106.4	12 500*	54.3	110.4	17 600*
46.0	44.7	104.5	11 700*	51.8	108.9	16 200*
48.0	41.8	102.3	11 000*	49.2	107.2	15 000*
50.0	38.7	99.9	10 300*	46.6	105.4	13 900*
52.0	35.4	97.2	9 600*	43.8	103.3	12 800*
54.0	31.7	94.2	9 100*	40.8	101.1	11 900*
56.0	27.7	90.6	8 500*	37.6	98.6	11 100*
58.0	23.0	86.3	8 000*	34.2	95.8	10 300*
60.0	17.1	80.7	7 500*	30.5	92.6	9 600*
62.0				26.3	88.9	9 000*
64.0				21.3	84.2	8 400*
66.0				14.8	77.9	7 800*



LIFTCRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

**LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
93 890 kg CRANE COUNTERWEIGHT
27 220 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING**

**CAUTION: OUTSIDE
ASSIST REQUIRED**

64.0m BOOM, 33.5m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
13.7	75.0	99.4	40 800*b			
14.0	74.5	99.3	40 700*b			
16.0	70.9	98.6	39 800*b			
18.0	67.2	97.8	37 400*			
20.0	63.4	96.9	35 000*			
22.0	59.5	95.8	32 600*			
24.0	55.4	94.5	30 200*	66.5	97.2	36 200*
26.0	51.1	92.9	27 900*	62.7	96.2	34 200*
28.0	46.5	91.1	25 600*	58.7	95.1	32 300*
30.0	41.5	89.0	23 600*	54.6	93.7	30 500*
32.0	36.0	86.5	21 700*	50.3	92.1	28 900*
34.0	29.6	83.3	20 000*	45.6	90.3	27 400*
36.0	21.4	79.0	18 400*	40.6	88.1	26 000*
38.0	6.5	70.5	17 100*	34.9	85.5	24 000*
40.0				28.2	82.1	22 000*
42.0				19.5	77.4	20 300*

64.0m BOOM, 39.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	75.1	105.3	35 100*			
16.0	73.9	105.0	34 600*			
18.0	70.9	104.4	33 100*			
20.0	67.8	103.6	31 400*			
22.0	64.6	102.7	29 600*			
24.0	61.3	101.7	27 700*			
26.0	58.0	100.5	25 900*	67.2	103.0	32 300*
28.0	54.5	99.1	24 100*	64.0	102.0	30 600*
30.0	50.8	97.5	22 400*	60.7	101.0	29 100*
32.0	46.9	95.7	20 700*	57.3	99.7	27 600*
34.0	42.8	93.7	19 100*	53.8	98.3	26 200*
36.0	38.3	91.3	17 700*	50.1	96.7	24 900*
38.0	33.2	88.5	16 400*	46.2	94.9	23 700*
40.0	27.4	85.0	15 200*	42.0	92.8	21 900*
42.0	20.1	80.3	14 100*	37.4	90.3	20 100*
44.0	7.3	71.7	13 200*	32.2	87.4	18 600*
46.0				26.2	83.7	17 200*
48.0				18.4	78.7	16 000*

64.0m BOOM, 36.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	73.8	102.1	37 600*			
16.0	72.5	101.9	37 000*			
18.0	69.2	101.1	35 200*			
20.0	65.8	100.3	33 200*			
22.0	62.3	99.3	31 100*			
24.0	58.7	98.1	29 000*	68.6	100.5	35 200*
26.0	54.9	96.8	26 900*	65.1	99.6	33 300*
28.0	50.9	95.2	24 900*	61.6	98.6	31 600*
30.0	46.7	93.4	23 000*	58.0	97.4	29 900*
32.0	42.2	91.4	21 200*	54.2	96.0	28 300*
34.0	37.2	88.9	19 500*	50.2	94.4	26 900*
36.0	31.6	85.9	18 000*	45.9	92.6	25 500*
38.0	24.9	82.1	16 700*	41.3	90.5	24 000*
40.0	15.5	76.5	15 500*	36.2	87.9	22 000*
42.0				30.4	84.8	20 200*
44.0				23.4	80.7	18 600*

64.0m BOOM, 42.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	74.0	108.0	31 700*			
18.0	72.3	107.6	30 900*			
20.0	69.4	106.9	29 600*			
22.0	66.5	106.1	28 000*			
24.0	63.6	105.1	26 400*			
26.0	60.5	104.0	24 800*	68.9	106.3	31 000*
28.0	57.3	102.8	23 200*	66.0	105.4	29 600*
30.0	54.1	101.4	21 600*	63.0	104.4	28 100*
32.0	50.7	99.8	20 100*	59.9	103.3	26 800*
34.0	47.1	98.1	18 700*	56.7	102.1	25 500*
36.0	43.2	96.0	17 300*	53.4	100.6	24 200*
38.0	39.1	93.7	16 100*	50.0	99.0	23 100*
40.0	34.6	91.0	14 900*	46.4	97.2	21 800*
42.0	29.4	87.7	13 800*	42.5	95.1	20 000*
44.0	23.3	83.6	12 900*	38.3	92.7	18 400*
46.0	14.8	77.6	12 000*	33.7	89.9	17 000*
48.0				28.4	86.5	15 800*
50.0				21.9	82.2	14 700*

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LIFTCRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
93 890 kg CRANE COUNTERWEIGHT
27 220 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

64.0m BOOM, 45.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	75.1	111.2	29 600*			
18.0	73.5	110.8	29 000*			
20.0	70.9	110.1	27 800*			
22.0	68.2	109.4	26 500*			
24.0	65.4	108.5	25 200*			
26.0	62.6	107.5	23 700*	70.4	109.5	29 900*
28.0	59.8	106.4	22 300*	67.7	108.7	28 600*
30.0	56.8	105.1	20 900*	64.9	107.8	27 300*
32.0	53.7	103.7	19 500*	62.1	106.8	26 000*
34.0	50.5	102.1	18 200*	59.2	105.7	24 700*
36.0	47.2	100.4	16 900*	56.2	104.4	23 600*
38.0	43.6	98.4	15 700*	53.2	103.0	22 500*
40.0	39.8	96.1	14 600*	49.9	101.3	21 400*
42.0	35.7	93.4	13 600*	46.5	99.5	20 200*
44.0	31.1	90.4	12 700*	43.0	97.5	18 500*
46.0	25.7	86.6	11 800*	39.1	95.1	17 100*
48.0	19.0	81.6	11 100*	34.9	92.4	15 900*
50.0	7.8	72.9	10 300*	30.2	89.2	14 700*
52.0				24.6	85.3	13 700*
54.0				17.5	79.9	12 800*

64.0m BOOM, 51.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	75.2	117.1	25 000*			
20.0	73.2	116.6	24 300*			
22.0	70.9	115.9	23 400*			
24.0	68.5	115.1	22 400*			
26.0	66.1	114.3	21 400*			
28.0	63.6	113.3	20 400*			
30.0	61.1	112.3	19 300*	68.1	114.5	25 200*
32.0	58.6	111.1	18 200*	65.6	113.6	24 500*
34.0	55.9	109.8	17 100*	63.2	112.7	23 500*
36.0	53.2	108.3	16 000*	60.7	111.6	22 500*
38.0	50.4	106.7	15 000*	58.1	110.4	21 500*
40.0	47.4	105.0	14 100*	55.4	109.0	20 500*
42.0	44.3	103.0	13 100*	52.7	107.6	19 600*
44.0	41.0	100.8	12 300*	49.8	105.9	18 400*
46.0	37.5	98.3	11 500*	46.8	104.1	17 000*
48.0	33.6	95.5	10 700*	43.7	102.1	15 700*
50.0	29.4	92.1	10 000*	40.4	99.9	14 500*
52.0	24.4	88.1	9 400*	36.8	97.3	13 500*
54.0	18.2	82.9	8 800*	32.9	94.4	12 600*
56.0	8.1	74.0	8 200*	28.5	91.0	11 700*
58.0				23.3	86.8	10 900*
60.0				16.7	81.2	10 200*

64.0m BOOM, 48.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	74.2	113.9	26 800*			
20.0	72.1	113.4	26 000*			
22.0	69.6	112.7	24 900*			
24.0	67.1	111.8	23 800*			
26.0	64.5	110.9	22 600*			
28.0	61.9	109.9	21 300*	69.1	112.0	27 000*
30.0	59.1	108.7	20 100*	66.6	111.2	26 300*
32.0	56.3	107.5	18 900*	64.0	110.3	25 100*
34.0	53.5	106.0	17 600*	61.3	109.2	23 900*
36.0	50.5	104.4	16 500*	58.6	108.0	22 800*
38.0	47.3	102.7	15 400*	55.8	106.7	21 800*
40.0	44.0	100.7	14 300*	52.9	105.3	20 900*
42.0	40.5	98.4	13 400*	49.9	103.6	19 800*
44.0	36.7	95.9	12 500*	46.7	101.8	18 300*
46.0	32.5	92.9	11 600*	43.4	99.8	16 900*
48.0	27.7	89.4	10 900*	39.8	97.5	15 600*
50.0	22.0	85.0	10 200*	35.9	94.9	14 500*
52.0	14.3	78.7	9 500*	31.6	91.8	13 500*
54.0				26.7	88.2	12 600*
56.0				20.8	83.5	11 700*

64.0m BOOM, 54.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	76.0	120.2	23 200*			
20.0	74.2	119.8	22 700*			
22.0	72.0	119.1	21 900*			
24.0	69.8	118.4	21 100*			
26.0	67.5	117.6	20 200*			
28.0	65.2	116.7	19 300*			
30.0	62.9	115.7	18 400*	69.3	117.8	23 400*
32.0	60.5	114.6	17 400*	67.1	117.0	22 900*
34.0	58.1	113.4	16 500*	64.8	116.1	22 400*
36.0	55.6	112.1	15 500*	62.4	115.1	21 700*
38.0	53.0	110.6	14 600*	60.1	113.9	20 700*
40.0	50.3	109.0	13 700*	57.6	112.7	19 900*
42.0	47.5	107.3	12 800*	55.1	111.4	19 000*
44.0	44.6	105.3	12 000*	52.5	109.9	18 100*
46.0	41.5	103.1	11 300*	49.8	108.2	16 700*
48.0	38.2	100.7	10 500*	47.0	106.4	15 400*
50.0	34.7	98.0	9 900*	44.0	104.4	14 300*
52.0	30.7	94.8	9 200*	40.9	102.2	13 200*
54.0	26.3	91.0	8 700*	37.6	99.7	12 300*
56.0	21.0	86.4	8 200*	33.9	96.9	11 500*
58.0	13.9	79.9	7 700*	30.0	93.7	10 700*
60.0				25.4	89.8	10 000*
62.0				19.9	84.9	9 300*
64.0				12.1	77.7	8 700*

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
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE
 ASSIST REQUIRED

64.0m BOOM, 57.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	75.2	123.0	21 200*			
20.0	75.0	122.9	21 100*			
22.0	73.0	122.3	20 500*			
24.0	70.9	121.7	19 800*			
26.0	68.8	120.9	19 100*			
28.0	66.6	120.1	18 300*			
30.0	64.4	119.1	17 500*			
32.0	62.2	118.1	16 600*	68.4	120.3	21 400*
34.0	59.9	117.0	15 800*	66.2	119.4	21 000*
36.0	57.6	115.8	15 000*	64.0	118.5	20 500*
38.0	55.2	114.4	14 100*	61.8	117.4	19 900*
40.0	52.8	112.9	13 300*	59.5	116.3	19 200*
42.0	50.2	111.3	12 500*	57.2	115.0	18 400*
44.0	47.6	109.6	11 800*	54.8	113.7	17 700*
46.0	44.8	107.6	11 100*	52.3	112.2	16 500*
48.0	41.9	105.5	10 400*	49.7	110.5	15 200*
50.0	38.8	103.1	9 700*	47.1	108.7	14 100*
52.0	35.5	100.4	9 100*	44.3	106.8	13 000*
54.0	31.9	97.4	8 600*	41.4	104.6	12 100*
56.0	27.9	93.8	8 000*	38.2	102.1	11 300*
58.0	23.3	89.6	7 400*	34.9	99.4	10 500*
60.0	17.5	84.1	6 800*	31.2	96.3	9 800*
62.0	8.4	75.1	6 200*	27.1	92.6	9 100*
64.0				22.3	88.2	8 500*
66.0				16.2	82.3	7 900*

64.0m BOOM, 61.0m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	76.0	126.1	19 600*			
20.0	75.8	126.1	19 600*			
22.0	73.8	125.5	19 000*			
24.0	71.9	124.9	18 500*			
26.0	69.9	124.2	17 900*			
28.0	67.8	123.4	17 200*			
30.0	65.8	122.5	16 500*			
32.0	63.7	121.6	15 800*	69.5	123.6	19 800*
34.0	61.6	120.5	15 100*	67.5	122.8	19 500*
36.0	59.4	119.4	14 300*	65.4	121.9	19 100*
38.0	57.2	118.1	13 600*	63.3	120.9	18 700*
40.0	54.9	116.7	12 900*	61.2	119.8	18 100*
42.0	52.6	115.3	12 100*	59.0	118.7	17 500*
44.0	50.2	113.6	11 400*	56.8	117.4	16 900*
46.0	47.7	111.9	10 800*	54.5	116.0	16 100*
48.0	45.0	109.9	10 100*	52.1	114.5	15 000*
50.0	42.3	107.8	9 500*	49.7	112.8	13 800*
52.0	39.4	105.5	9 000*	47.2	111.0	12 800*
54.0	36.3	102.9	8 200*	44.5	109.1	11 900*
56.0	33.0	99.9	7 500*	41.8	106.9	11 000*
58.0	29.3	96.6	6 800*	38.8	104.5	10 200*
60.0	25.1	92.6	6 200*	35.7	101.9	9 500*
62.0	20.2	87.7	5 600*	32.3	98.9	8 900*
64.0	13.6	81.0	5 100*	28.6	95.4	8 300*
66.0				24.3	91.3	7 700*
68.0				19.1	86.2	7 200*
70.0				11.9	78.8	6 600*



LIFTCRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

**LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
93 890 kg CRANE COUNTERWEIGHT
27 220 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING**

CAUTION: OUTSIDE ASSIST REQUIRED

67.1m BOOM, 33.5m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
13.7	75.2	102.4	39 400*b			
14.0	74.7	102.4	39 200*b			
16.0	71.1	101.7	37 400*b			
18.0	67.4	100.9	35 400*			
20.0	63.6	100.0	33 200*			
22.0	59.7	98.9	31 000*			
24.0	55.6	97.6	28 800*	67.2	100.4	34 900*
26.0	51.3	96.1	26 700*	63.4	99.4	33 000*
28.0	46.8	94.3	24 600*	59.5	98.3	31 100*
30.0	41.8	92.2	22 700*	55.4	97.0	29 400*
32.0	36.3	89.7	20 900*	51.1	95.5	27 800*
34.0	29.9	86.5	19 300*	46.5	93.7	26 400*
36.0	21.9	82.3	17 900*	41.5	91.6	25 000*
38.0	8.1	74.5	16 700*	36.0	89.0	23 700*
40.0				29.6	85.8	22 400*
42.0				21.4	81.5	20 600*

67.1m BOOM, 39.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	75.3	108.3	33 200*			
16.0	74.1	108.1	32 700*			
18.0	71.0	107.5	31 300*			
20.0	67.9	106.7	29 800*			
22.0	64.8	105.8	28 100*			
24.0	61.5	104.8	26 400*			
26.0	58.1	103.6	24 700*	67.8	106.2	30 800*
28.0	54.6	102.2	23 000*	64.6	105.2	29 200*
30.0	51.0	100.7	21 400*	61.3	104.2	27 800*
32.0	47.1	98.9	19 900*	58.0	103.0	26 400*
34.0	43.0	96.9	18 400*	54.4	101.6	25 100*
36.0	38.5	94.5	17 100*	50.8	100.1	23 800*
38.0	33.5	91.7	15 800*	46.9	98.3	22 600*
40.0	27.8	88.2	14 700*	42.8	96.2	21 600*
42.0	20.5	83.6	13 700*	38.3	93.9	20 400*
44.0	8.5	75.6	12 800*	33.2	91.0	18 900*
46.0				27.4	87.5	17 400*
48.0				20.0	82.8	16 200*

67.1m BOOM, 36.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	74.0	105.2	35 600*b			
16.0	72.7	104.9	35 000*b			
18.0	69.4	104.2	33 300*			
20.0	66.0	103.4	31 500*			
22.0	62.5	102.4	29 600*			
24.0	58.9	101.2	27 600*			
26.0	55.1	99.9	25 700*	65.8	102.8	31 800*
28.0	51.2	98.4	23 800*	62.3	101.8	30 100*
30.0	47.0	96.6	22 000*	58.7	100.7	28 500*
32.0	42.5	94.5	20 400*	54.9	99.3	27 100*
34.0	37.5	92.1	18 800*	50.9	97.8	25 700*
36.0	31.9	89.1	17 400*	46.7	96.0	24 400*
38.0	25.3	85.4	16 100*	42.2	93.9	23 100*
40.0	16.1	79.9	15 000*	37.2	91.4	22 000*
42.0				31.6	88.5	20 600*
44.0				24.8	84.6	18 900*

67.1m BOOM, 42.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	74.1	111.1	30 100*			
18.0	72.4	110.7	29 300*			
20.0	69.6	110.0	28 000*			
22.0	66.7	109.2	26 700*			
24.0	63.7	108.2	25 200*			
26.0	60.7	107.1	23 600*	69.4	109.4	29 600*
28.0	57.5	105.9	22 200*	66.5	108.6	28 200*
30.0	54.3	104.5	20 700*	63.5	107.7	26 900*
32.0	50.8	103.0	19 300*	60.5	106.6	25 500*
34.0	47.3	101.2	17 900*	57.3	105.3	24 300*
36.0	43.5	99.2	16 600*	54.1	103.9	23 100*
38.0	39.3	96.9	15 400*	50.7	102.4	22 000*
40.0	34.8	94.2	14 400*	47.1	100.6	21 000*
42.0	29.7	90.9	13 400*	43.2	98.6	20 000*
44.0	23.6	86.9	12 500*	39.1	96.2	18 700*
46.0	15.4	81.1	11 600*	34.6	93.5	17 300*
48.0				29.4	90.2	16 000*
50.0				23.3	86.1	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
93 890 kg CRANE COUNTERWEIGHT
27 220 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

67.1m BOOM, 45.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	75.2	114.2	27 200*			
18.0	73.6	113.9	27 300*			
20.0	71.0	113.2	26 400*			
22.0	68.3	112.5	25 200*			
24.0	65.6	111.6	23 900*			
26.0	62.8	110.6	22 600*	70.9	112.7	27 200*
28.0	59.9	109.5	21 300*	68.2	111.9	27 400*
30.0	57.0	108.2	19 900*	65.4	111.0	26 000*
32.0	53.9	106.8	18 700*	62.6	110.1	24 800*
34.0	50.7	105.3	17 400*	59.8	108.9	23 600*
36.0	47.4	103.5	16 300*	56.8	107.7	22 500*
38.0	43.8	101.5	15 100*	53.7	106.3	21 500*
40.0	40.1	99.2	14 100*	50.5	104.7	20 400*
42.0	35.9	96.6	13 100*	47.2	102.9	19 500*
44.0	31.4	93.6	12 200*	43.6	100.9	18 600*
46.0	26.0	89.8	11 400*	39.8	98.6	17 400*
48.0	19.4	85.0	10 700*	35.7	96.0	16 100*
50.0	8.7	76.7	10 100*	31.1	92.9	14 900*
52.0				25.7	89.1	13 900*
54.0				19.0	84.1	13 000*

67.1m BOOM, 51.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	75.3	120.1	23 800*			
20.0	73.3	119.6	23 100*			
22.0	71.0	119.0	22 300*			
24.0	68.6	118.2	21 400*			
26.0	66.2	117.4	20 400*			
28.0	63.8	116.4	19 400*			
30.0	61.3	115.4	18 400*	68.5	117.7	23 900*
32.0	58.7	114.2	17 400*	66.1	116.8	23 400*
34.0	56.1	112.9	16 400*	63.6	115.9	22 400*
36.0	53.3	111.5	15 400*	61.1	114.8	21 400*
38.0	50.5	109.9	14 400*	58.6	113.6	20 500*
40.0	47.6	108.1	13 500*	55.9	112.3	19 500*
42.0	44.5	106.1	12 600*	53.2	110.9	18 700*
44.0	41.2	104.0	11 800*	50.4	109.3	17 900*
46.0	37.7	101.5	11 000*	47.4	107.5	17 100*
48.0	33.9	98.7	10 300*	44.3	105.5	15 900*
50.0	29.6	95.4	9 700*	41.0	103.3	14 700*
52.0	24.7	91.4	9 100*	37.5	100.8	13 700*
54.0	18.6	86.2	8 500*	33.6	98.0	12 800*
56.0	8.9	77.8	8 100*	29.3	94.7	11 900*
58.0				24.4	90.7	11 100*
60.0				18.2	85.4	10 400*

67.1m BOOM, 48.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	74.3	117.0	25 500*			
20.0	72.2	116.5	24 700*			
22.0	69.8	115.7	23 700*			
24.0	67.2	114.9	22 600*			
26.0	64.6	114.0	21 500*			
28.0	62.0	113.0	20 300*	69.6	115.2	26 200*
30.0	59.3	111.9	19 200*	67.1	114.4	25 400*
32.0	56.5	110.6	18 000*	64.5	113.5	24 200*
34.0	53.6	109.2	16 900*	61.8	112.4	23 100*
36.0	50.6	107.6	15 800*	59.1	111.3	22 000*
38.0	47.5	105.8	14 800*	56.3	110.0	21 000*
40.0	44.2	103.8	13 800*	53.4	108.6	20 100*
42.0	40.7	101.6	12 900*	50.4	107.0	19 200*
44.0	36.9	99.1	12 000*	47.3	105.2	18 300*
46.0	32.7	96.1	11 200*	44.0	103.2	17 100*
48.0	28.0	92.7	10 500*	40.5	101.0	15 900*
50.0	22.4	88.3	9 800*	36.7	98.4	14 700*
52.0	14.8	82.2	9 200*	32.5	95.5	13 700*
54.0				27.7	92.0	12 800*
56.0				22.0	87.5	11 900*

67.1m BOOM, 54.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	74.5	122.9	21 600*			
20.0	74.3	122.8	21 600*			
22.0	72.1	122.2	20 800*			
24.0	69.9	121.5	20 100*			
26.0	67.6	120.7	19 300*			
28.0	65.3	119.8	18 400*			
30.0	63.0	118.8	17 500*	69.7	121.0	22 300*
32.0	60.6	117.7	16 600*	67.5	120.2	21 800*
34.0	58.2	116.5	15 700*	65.2	119.3	21 300*
36.0	55.7	115.2	14 800*	62.9	118.3	20 600*
38.0	53.1	113.8	14 000*	60.5	117.2	19 700*
40.0	50.4	112.2	13 100*	58.1	116.0	18 900*
42.0	47.7	110.4	12 300*	55.6	114.6	18 100*
44.0	44.7	108.5	11 500*	53.0	113.2	17 300*
46.0	41.7	106.3	10 800*	50.3	111.6	16 500*
48.0	38.4	103.9	10 100*	47.5	109.8	15 700*
50.0	34.9	101.2	9 500*	44.6	107.9	14 500*
52.0	31.0	98.0	8 900*	41.5	105.7	13 500*
54.0	26.6	94.3	8 400*	38.2	103.2	12 500*
56.0	21.3	89.7	7 900*	34.6	100.5	11 600*
58.0	14.4	83.3	7 400*	30.7	97.3	10 800*
60.0				26.3	93.6	10 100*
62.0				21.0	88.9	9 400*
64.0				13.9	82.4	8 800*

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
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

67.1m BOOM, 57.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	75.3	126.1	20 200*			
20.0	75.1	126.0	20 100*			
22.0	73.1	125.4	19 500*			
24.0	71.0	124.7	18 900*			
26.0	68.9	124.0	18 200*			
28.0	66.7	123.2	17 500*			
30.0	64.5	122.2	16 700*			
32.0	62.3	121.2	15 900*	68.7	123.5	20 400*
34.0	60.1	120.1	15 100*	66.6	122.6	20 000*
36.0	57.7	118.9	14 300*	64.4	121.7	19 500*
38.0	55.4	117.5	13 500*	62.2	120.7	18 900*
40.0	52.9	116.1	12 700*	59.9	119.5	18 300*
42.0	50.4	114.5	12 000*	57.6	118.3	17 500*
44.0	47.7	112.7	11 300*	55.2	117.0	16 800*
46.0	45.0	110.8	10 600*	52.8	115.5	16 100*
48.0	42.1	108.6	10 000*	50.2	113.9	15 300*
50.0	39.0	106.3	9 300*	47.6	112.1	14 300*
52.0	35.7	103.6	8 700*	44.8	110.2	13 200*
54.0	32.1	100.6	8 100*	41.9	108.0	12 300*
56.0	28.1	97.1	7 300*	38.8	105.6	11 400*
58.0	23.5	92.9	6 700*	35.5	103.0	10 600*
60.0	17.8	87.5	6 200*	31.9	99.9	9 900*
62.0	9.1	78.9	5 700*	27.9	96.4	9 200*
64.0				23.3	92.1	8 600*
66.0				17.5	86.6	8 000*

67.1m BOOM, 61.0m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
21.3	74.6	128.8	18 400*			
22.0	73.9	128.6	18 200*			
24.0	72.0	128.0	17 600*			
26.0	70.0	127.3	17 000*			
28.0	68.0	126.5	16 400*			
30.0	65.9	125.6	15 800*			
32.0	63.8	124.7	15 100*			
34.0	61.7	123.6	14 400*	67.8	125.9	18 600*
36.0	59.5	122.5	13 700*	65.8	125.1	18 200*
38.0	57.3	121.2	13 000*	63.7	124.1	17 800*
40.0	55.0	119.9	12 300*	61.6	123.1	17 300*
42.0	52.7	118.4	11 600*	59.4	121.9	16 700*
44.0	50.3	116.8	10 900*	57.2	120.7	16 100*
46.0	47.8	115.0	10 300*	54.9	119.3	15 500*
48.0	45.2	113.1	9 700*	52.6	117.8	14 800*
50.0	42.4	111.0	9 000*	50.2	116.2	14 000*
52.0	39.6	108.6	8 200*	47.6	114.4	13 000*
54.0	36.5	106.1	7 500*	45.0	112.5	12 000*
56.0	33.2	103.1	6 800*	42.3	110.4	11 100*
58.0	29.5	99.8	6 100*	39.4	108.0	10 300*
60.0	25.4	95.9	5 500*	36.3	105.4	9 600*
62.0	20.5	91.1	5 000*	33.0	102.5	9 000*
64.0	14.0	84.5	4 500*	29.3	99.1	8 300*
66.0				25.1	95.2	7 800*
68.0				20.2	90.3	7 300*
70.0				13.5	83.5	6 700*

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
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

70.1m BOOM, 33.5m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
13.7	75.4	105.5	35 600*b			
14.0	74.9	105.4	35 400*b			
16.0	71.3	104.8	33 800*b			
18.0	67.6	104.0	32 100*			
20.0	63.8	103.1	30 300*			
22.0	59.9	102.0	28 300*			
24.0	55.9	100.7	26 400*	67.9	103.6	32 900*
26.0	51.6	99.2	24 500*	64.1	102.6	31 100*
28.0	47.0	97.4	22 800*	60.2	101.6	29 500*
30.0	42.1	95.4	21 100*	56.2	100.3	27 900*
32.0	36.6	92.9	19 500*	51.9	98.8	26 400*
34.0	30.3	89.8	18 100*	47.4	97.1	25 000*
36.0	22.4	85.6	16 800*	42.5	95.0	23 700*
38.0	9.4	78.3	15 700*	37.1	92.5	22 500*
40.0				30.8	89.5	21 400*
42.0				23.1	85.5	20 100*
44.0				11.0	78.7	18 600*

70.1m BOOM, 39.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	75.4	111.4	30 200*			
16.0	74.2	111.2	29 700*			
18.0	71.2	110.6	28 400*			
20.0	68.1	109.8	27 100*			
22.0	64.9	108.9	25 700*			
24.0	61.7	107.9	24 200*			
26.0	58.3	106.7	22 600*	68.3	109.3	29 000*
28.0	54.8	105.3	21 200*	65.2	108.5	27 600*
30.0	51.2	103.8	19 800*	61.9	107.4	26 200*
32.0	47.3	102.0	18 400*	58.6	106.3	24 900*
34.0	43.2	100.0	17 100*	55.1	104.9	23 700*
36.0	38.8	97.7	15 900*	51.5	103.4	22 500*
38.0	33.8	94.9	14 800*	47.6	101.7	21 400*
40.0	28.1	91.5	13 800*	43.6	99.7	20 400*
42.0	21.0	87.0	12 900*	39.1	97.3	19 400*
44.0	9.5	79.3	12 100*	34.2	94.6	18 200*
46.0				28.6	91.3	16 900*
48.0				21.6	86.9	15 700*
50.0				10.9	79.7	14 600*

70.1m BOOM, 36.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	74.2	108.3	32 200*b			
16.0	72.9	108.0	31 700*b			
18.0	69.6	107.3	30 200*			
20.0	66.2	106.5	28 600*			
22.0	62.7	105.5	27 000*			
24.0	59.1	104.3	25 300*			
26.0	55.3	103.0	23 600*	66.4	106.0	30 000*
28.0	51.4	101.5	21 900*	62.9	105.0	28 500*
30.0	47.2	99.7	20 400*	59.3	103.9	27 000*
32.0	42.7	97.7	18 900*	55.6	102.6	25 600*
34.0	37.8	95.3	17 600*	51.7	101.1	24 300*
36.0	32.3	92.4	16 300*	47.5	99.4	23 100*
38.0	25.6	88.6	15 200*	43.1	97.3	21 900*
40.0	16.7	83.3	14 200*	38.2	95.0	20 800*
42.0				32.7	92.1	19 800*
44.0				26.2	88.5	18 400*
46.0				17.6	83.3	17 100*

70.1m BOOM, 42.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	74.3	114.1	27 200*			
18.0	72.6	113.8	26 600*			
20.0	69.7	113.1	25 600*			
22.0	66.8	112.3	24 300*			
24.0	63.9	111.3	23 000*			
26.0	60.8	110.2	21 700*	70.0	112.6	27 200*
28.0	57.7	109.0	20 400*	67.1	111.8	26 700*
30.0	54.4	107.7	19 100*	64.1	110.9	25 300*
32.0	51.0	106.1	17 800*	61.1	109.8	24 100*
34.0	47.5	104.3	16 600*	57.9	108.6	22 900*
36.0	43.7	102.3	15 500*	54.7	107.2	21 800*
38.0	39.6	100.1	14 400*	51.3	105.7	20 800*
40.0	35.1	97.4	13 500*	47.7	104.0	19 800*
42.0	30.0	94.2	12 600*	44.0	102.0	18 900*
44.0	24.0	90.2	11 700*	39.9	99.7	17 900*
46.0	15.9	84.5	11 000*	35.5	97.1	16 700*
48.0				30.4	93.9	15 500*
50.0				24.5	90.0	14 500*
52.0				16.7	84.5	13 500*

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
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

70.1m BOOM, 45.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	75.4	117.3	25 600*			
18.0	73.8	117.0	25 000*			
20.0	71.2	116.3	24 100*			
22.0	68.5	115.6	22 900*			
24.0	65.7	114.7	21 900*			
26.0	63.0	113.7	20 700*			
28.0	60.1	112.6	19 500*	68.7	115.1	25 500*
30.0	57.1	111.4	18 400*	66.0	114.2	24 700*
32.0	54.1	110.0	17 200*	63.2	113.3	23 600*
34.0	50.9	108.4	16 200*	60.3	112.2	22 600*
36.0	47.6	106.6	15 100*	57.4	110.9	21 500*
38.0	44.0	104.7	14 100*	54.3	109.6	20 500*
40.0	40.3	102.4	13 200*	51.1	108.0	19 500*
42.0	36.2	99.8	12 300*	47.8	106.3	18 600*
44.0	31.6	96.8	11 500*	44.3	104.3	17 600*
46.0	26.4	93.1	10 800*	40.6	102.1	16 400*
48.0	19.8	88.3	10 200*	36.5	99.5	15 400*
50.0	9.6	80.4	9 600*	32.0	96.5	14 400*
52.0				26.8	92.9	13 400*
54.0				20.4	88.2	12 500*
56.0				10.8	80.8	11 700*

70.1m BOOM, 51.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	75.4	123.2	21 800*			
20.0	73.4	122.7	21 200*			
22.0	71.1	122.1	20 400*			
24.0	68.8	121.3	19 600*			
26.0	66.4	120.5	18 700*			
28.0	63.9	119.5	17 800*			
30.0	61.4	118.5	16 900*	68.9	120.9	21 800*
32.0	58.8	117.3	16 000*	66.5	120.0	21 300*
34.0	56.2	116.0	15 100*	64.1	119.1	20 700*
36.0	53.5	114.6	14 200*	61.6	118.0	20 000*
38.0	50.7	113.0	13 300*	59.0	116.9	19 200*
40.0	47.7	111.3	12 500*	56.4	115.6	18 400*
42.0	44.6	109.3	11 700*	53.7	114.2	17 500*
44.0	41.4	107.1	11 000*	50.9	112.6	16 600*
46.0	37.9	104.7	10 300*	48.0	110.9	15 700*
48.0	34.1	101.9	9 700*	44.9	108.9	14 900*
50.0	29.8	98.6	9 100*	41.6	106.8	14 000*
52.0	25.0	94.7	8 500*	38.2	104.4	13 200*
54.0	18.9	89.6	8 000*	34.4	101.6	12 300*
56.0	9.7	81.5	7 600*	30.2	98.4	11 600*
58.0				25.4	94.5	10 800*
60.0				19.5	89.5	10 100*
62.0				10.7	81.9	9 300*

70.1m BOOM, 48.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	74.5	120.1	23 300*			
20.0	72.4	119.5	22 500*			
22.0	69.9	118.8	21 600*			
24.0	67.4	118.0	20 600*			
26.0	64.8	117.1	19 700*			
28.0	62.1	116.1	18 700*	70.1	118.4	23 800*
30.0	59.4	115.0	17 600*	67.5	117.6	23 300*
32.0	56.6	113.7	16 600*	65.0	116.7	22 600*
34.0	53.8	112.3	15 600*	62.3	115.7	21 800*
36.0	50.8	110.7	14 600*	59.6	114.5	20 800*
38.0	47.7	109.0	13 700*	56.9	113.3	19 800*
40.0	44.4	107.0	12 800*	54.0	111.9	18 900*
42.0	40.9	104.8	12 000*	51.0	110.3	18 000*
44.0	37.1	102.3	11 200*	47.9	108.6	17 100*
46.0	32.9	99.4	10 500*	44.6	106.6	16 100*
48.0	28.3	95.9	9 900*	41.1	104.4	15 100*
50.0	22.7	91.6	9 300*	37.4	102.0	14 200*
52.0	15.3	85.7	8 700*	33.3	99.1	13 300*
54.0				28.6	95.7	12 400*
56.0				23.2	91.5	11 600*
58.0				16.0	85.7	10 800*

70.1m BOOM, 54.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	74.6	126.0	19 800*			
20.0	74.4	125.9	19 800*			
22.0	72.2	125.3	19 100*			
24.0	70.0	124.6	18 400*			
26.0	67.7	123.8	17 700*			
28.0	65.5	122.9	16 900*			
30.0	63.1	121.9	16 100*			
32.0	60.8	120.9	15 300*	67.9	123.3	19 900*
34.0	58.3	119.7	14 500*	65.6	122.5	19 400*
36.0	55.8	118.3	13 700*	63.3	121.5	18 900*
38.0	53.2	116.9	12 900*	60.9	120.4	18 200*
40.0	50.6	115.3	12 100*	58.5	119.2	17 600*
42.0	47.8	113.6	11 400*	56.0	117.9	16 800*
44.0	44.9	111.6	10 700*	53.5	116.5	16 000*
46.0	41.8	109.5	10 100*	50.8	114.9	15 300*
48.0	38.6	107.1	9 400*	48.0	113.2	14 400*
50.0	35.0	104.4	8 900*	45.1	111.3	13 700*
52.0	31.2	101.2	8 300*	42.1	109.1	12 900*
54.0	26.8	97.6	7 800*	38.8	106.7	12 100*
56.0	21.6	93.0	7 200*	35.3	104.1	11 400*
58.0	14.8	86.8	6 600*	31.5	101.0	10 700*
60.0				27.2	97.4	10 100*
62.0				22.1	92.9	9 400*
64.0				15.4	86.9	8 800*

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
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

70.1m BOOM, 57.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	75.4	129.1	18 500*			
20.0	75.2	129.1	18 500*			
22.0	73.2	128.5	17 900*			
24.0	71.1	127.8	17 300*			
26.0	69.0	127.1	16 700*			
28.0	66.8	126.3	16 000*			
30.0	64.7	125.3	15 300*			
32.0	62.4	124.3	14 600*	69.1	126.6	18 600*
34.0	60.2	123.2	13 900*	67.0	125.8	18 200*
36.0	57.9	122.0	13 200*	64.8	124.9	17 800*
38.0	55.5	120.7	12 500*	62.6	123.9	17 300*
40.0	53.0	119.2	11 800*	60.4	122.8	16 700*
42.0	50.5	117.6	11 100*	58.0	121.6	16 100*
44.0	47.9	115.9	10 400*	55.7	120.3	15 400*
46.0	45.1	113.9	9 800*	53.2	118.8	14 800*
48.0	42.2	111.8	9 200*	50.7	117.2	14 100*
50.0	39.2	109.5	8 700*	48.1	115.5	13 300*
52.0	35.9	106.8	8 000*	45.3	113.6	12 600*
54.0	32.3	103.8	7 300*	42.5	111.5	12 000*
56.0	28.4	100.3	6 600*	39.4	109.1	11 300*
58.0	23.8	96.2	6 000*	36.2	106.5	10 600*
60.0	18.2	90.9	5 500*	32.6	103.5	10 000*
62.0	9.8	82.6	5 100*	28.7	100.1	9 400*
64.0				24.2	96.0	8 700*
66.0				18.7	90.8	8 100*
68.0				10.6	83.0	7 400*

70.1m BOOM, 61.0m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
21.3	74.7	131.9	16 900*			
22.0	74.0	131.7	16 700*			
24.0	72.1	131.1	16 200*			
26.0	70.1	130.3	15 600*			
28.0	68.1	129.6	15 100*			
30.0	66.0	128.7	14 500*			
32.0	63.9	127.8	13 800*			
34.0	61.8	126.7	13 200*	68.2	129.1	17 000*
36.0	59.6	125.6	12 600*	66.2	128.3	16 600*
38.0	57.4	124.3	12 000*	64.1	127.3	16 200*
40.0	55.2	123.0	11 300*	62.0	126.3	15 800*
42.0	52.8	121.5	10 700*	59.8	125.1	15 300*
44.0	50.4	119.9	10 100*	57.6	123.9	14 700*
46.0	47.9	118.2	9 500*	55.3	122.6	14 200*
48.0	45.3	116.2	8 900*	53.0	121.1	13 500*
50.0	42.6	114.1	8 100*	50.6	119.5	12 900*
52.0	39.7	111.8	7 400*	48.1	117.8	12 300*
54.0	36.7	109.2	6 700*	45.5	115.9	11 700*
56.0	33.3	106.3	6 000*	42.8	113.8	11 000*
58.0	29.7	103.0	5 400*	39.9	111.5	10 400*
60.0	25.6	99.2	4 900*	36.9	108.9	9 800*
62.0	20.8	94.4	4 300*	33.6	106.1	9 100*
64.0	14.4	88.0	3 900*	30.0	102.8	8 500*
66.0				25.9	99.0	7 900*
68.0				21.2	94.3	7 200*
70.0				15.0	88.0	6 500*



LIFT CRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

**LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
93 890 kg CRANE COUNTERWEIGHT
27 220 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING**

CAUTION: OUTSIDE ASSIST REQUIRED

73.2m BOOM, 33.5m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
13.7	75.6	108.6	33 500* ^b			
14.0	75.0	108.5	33 300* ^b			
16.0	71.5	107.9	31 900* ^b			
18.0	67.8	107.1	30 300*			
20.0	64.0	106.2	28 600*			
22.0	60.1	105.1	26 800*			
24.0	56.1	103.8	25 000*	68.6	106.7	31 200*
26.0	51.8	102.3	23 300*	64.8	105.9	29 500*
28.0	47.3	100.6	21 700*	61.0	104.8	27 900*
30.0	42.4	98.5	20 100*	56.9	103.6	26 400*
32.0	36.9	96.1	18 700*	52.7	102.1	25 000*
34.0	30.7	93.0	17 300*	48.3	100.4	23 700*
36.0	22.9	88.9	16 100*	43.4	98.4	22 500*
38.0	10.5	82.0	15 100*	38.1	96.1	21 300*
40.0				32.1	93.2	20 300*
42.0				24.7	89.3	19 200*
44.0				14.1	83.5	18 000*

73.2m BOOM, 39.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	75.6	114.5	28 400* ^b			
16.0	74.4	114.3	28 000* ^b			
18.0	71.4	113.6	26 900*			
20.0	68.3	112.9	25 600*			
22.0	65.1	112.0	24 300*			
24.0	61.9	111.0	22 900*			
26.0	58.5	109.8	21 500*	68.9	112.5	27 500*
28.0	55.0	108.5	20 200*	65.8	111.7	26 100*
30.0	51.4	106.9	18 800*	62.5	110.7	24 800*
32.0	47.5	105.2	17 600*	59.2	109.5	23 600*
34.0	43.5	103.2	16 400*	55.8	108.2	22 400*
36.0	39.0	100.9	15 200*	52.2	106.7	21 300*
38.0	34.1	98.1	14 200*	48.4	105.0	20 200*
40.0	28.4	94.7	13 200*	44.3	103.1	19 200*
42.0	21.4	90.3	12 400*	40.0	100.8	18 300*
44.0	10.5	83.0	11 700*	35.2	98.2	17 400*
46.0				29.7	95.0	16 300*
48.0				23.0	90.8	15 100*
50.0				13.5	84.6	14 100*

73.2m BOOM, 36.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	74.4	111.3	30 400* ^b			
16.0	73.1	111.1	29 900* ^b			
18.0	69.7	110.4	28 500*			
20.0	66.3	109.6	27 100*			
22.0	62.9	108.6	25 500*			
24.0	59.3	107.5	23 900*			
26.0	55.5	106.1	22 400*	67.1	109.2	28 500*
28.0	51.6	104.6	20 900*	63.6	108.3	27 000*
30.0	47.4	102.9	19 400*	60.0	107.2	25 600*
32.0	43.0	100.9	18 100*	56.3	105.9	24 300*
34.0	38.1	98.5	16 800*	52.4	104.4	23 000*
36.0	32.6	95.6	15 600*	48.3	102.7	21 800*
38.0	26.0	91.9	14 600*	43.9	100.8	20 700*
40.0	17.3	86.7	13 600*	39.1	98.5	19 700*
42.0				33.8	95.7	18 700*
44.0				27.5	92.2	17 700*
46.0				19.5	87.5	16 500*

73.2m BOOM, 42.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	74.4	117.2	25 800*			
18.0	72.7	116.9	25 200*			
20.0	69.9	116.2	24 100*			
22.0	67.0	115.3	23 000*			
24.0	64.0	114.4	21 700*			
26.0	61.0	113.3	20 600*	70.5	115.8	26 200*
28.0	57.9	112.1	19 300*	67.6	115.0	25 500*
30.0	54.6	110.8	18 200*	64.7	114.1	24 300*
32.0	51.2	109.2	17 000*	61.6	113.0	23 100*
34.0	47.7	107.5	15 800*	58.5	111.9	22 000*
36.0	43.9	105.5	14 800*	55.3	110.5	20 900*
38.0	39.8	103.2	13 800*	51.9	109.0	19 900*
40.0	35.3	100.6	12 900*	48.4	107.3	18 900*
42.0	30.3	97.4	12 100*	44.7	105.4	18 000*
44.0	24.4	93.5	11 300*	40.7	103.2	17 100*
46.0	16.5	87.9	10 600*	36.3	100.6	16 000*
48.0				31.4	97.6	15 000*
50.0				25.7	93.8	14 000*
52.0				18.4	88.8	13 000*

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
93 890 kg CRANE COUNTERWEIGHT
27 220 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

73.2m BOOM, 45.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	75.5	120.4	24 200*			
18.0	73.9	120.0	23 700*			
20.0	71.3	119.4	22 700*			
22.0	68.6	118.6	21 700*			
24.0	65.9	117.8	20 700*			
26.0	63.1	116.8	19 600*			
28.0	60.2	115.7	18 500*	69.2	118.3	24 000*
30.0	57.3	114.5	17 400*	66.5	117.4	23 400*
32.0	54.2	113.1	16 400*	63.7	116.5	22 400*
34.0	51.1	111.5	15 400*	60.8	115.4	21 300*
36.0	47.7	109.8	14 400*	57.9	114.2	20 300*
38.0	44.2	107.8	13 500*	54.9	112.9	19 300*
40.0	40.5	105.6	12 600*	51.7	111.3	18 400*
42.0	36.4	103.0	11 800*	48.5	109.6	17 600*
44.0	31.9	100.0	11 000*	45.0	107.7	16 700*
46.0	26.7	96.4	10 300*	41.3	105.5	15 700*
48.0	20.2	91.7	9 700*	37.3	103.1	14 800*
50.0	10.4	84.1	9 200*	32.9	100.2	13 800*
52.0				27.8	96.7	12 900*
54.0				21.7	92.2	12 100*
56.0				13.1	85.7	11 300*

73.2m BOOM, 51.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	75.5	126.3	20 600*			
20.0	73.6	125.8	20 000*			
22.0	71.2	125.2	19 300*			
24.0	68.9	124.4	18 500*			
26.0	66.5	123.6	17 700*			
28.0	64.0	122.6	16 900*			
30.0	61.5	121.6	16 000*	69.4	124.0	20 500*
32.0	59.0	120.4	15 100*	67.0	123.2	20 000*
34.0	56.4	119.1	14 300*	64.6	122.3	19 500*
36.0	53.6	117.7	13 500*	62.1	121.3	18 900*
38.0	50.8	116.1	12 700*	59.5	120.1	18 100*
40.0	47.9	114.4	11 900*	56.9	118.9	17 300*
42.0	44.8	112.5	11 200*	54.2	117.5	16 500*
44.0	41.6	110.3	10 500*	51.4	115.9	15 800*
46.0	38.1	107.9	9 800*	48.5	114.2	15 000*
48.0	34.3	105.1	9 200*	45.5	112.3	14 100*
50.0	30.1	101.8	8 700*	42.3	110.2	13 300*
52.0	25.2	98.0	8 200*	38.8	107.9	12 600*
54.0	19.3	93.0	7 700*	35.1	105.2	11 800*
56.0	10.4	85.2	7 300*	31.0	102.0	11 100*
58.0				26.3	98.3	10 400*
60.0				20.7	93.6	9 800*
62.0				12.8	86.8	9 200*

73.2m BOOM, 48.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	74.6	123.1	22 000*			
20.0	72.5	122.6	21 300*			
22.0	70.0	121.9	20 500*			
24.0	67.5	121.1	19 500*			
26.0	64.9	120.2	18 600*			
28.0	62.3	119.2	17 700*			
30.0	59.6	118.1	16 700*	68.0	120.8	21 900*
32.0	56.8	116.8	15 700*	65.5	119.9	21 300*
34.0	53.9	115.4	14 800*	62.8	118.9	20 600*
36.0	50.9	113.8	13 900*	60.1	117.8	19 600*
38.0	47.8	112.1	13 100*	57.4	116.5	18 700*
40.0	44.5	110.1	12 200*	54.5	115.2	17 800*
42.0	41.1	107.9	11 500*	51.6	113.6	17 000*
44.0	37.3	105.5	10 700*	48.5	111.9	16 200*
46.0	33.2	102.6	10 100*	45.2	110.0	15 300*
48.0	28.5	99.2	9 400*	41.8	107.9	14 400*
50.0	23.0	94.9	8 900*	38.1	105.5	13 600*
52.0	15.8	89.1	8 400*	34.1	102.7	12 800*
54.0				29.6	99.4	11 900*
56.0				24.3	95.4	11 200*
58.0				17.5	90.0	10 500*

73.2m BOOM, 54.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	74.7	129.0	18 800*			
20.0	74.5	129.0	18 700*			
22.0	72.3	128.4	18 100*			
24.0	70.1	127.7	17 400*			
26.0	67.9	126.9	16 700*			
28.0	65.6	126.0	16 000*			
30.0	63.3	125.0	15 200*			
32.0	60.9	124.0	14 500*	68.3	126.5	18 700*
34.0	58.5	122.8	13 700*	66.1	125.7	18 300*
36.0	56.0	121.5	12 900*	63.8	124.7	17 800*
38.0	53.4	120.0	12 200*	61.4	123.7	17 200*
40.0	50.7	118.4	11 500*	59.0	122.5	16 600*
42.0	48.0	116.7	10 800*	56.5	121.2	15 900*
44.0	45.1	114.8	10 200*	53.9	119.8	15 200*
46.0	42.0	112.6	9 600*	51.3	118.2	14 500*
48.0	38.7	110.2	9 000*	48.5	116.5	13 700*
50.0	35.2	107.6	8 500*	45.7	114.7	13 000*
52.0	31.4	104.5	7 800*	42.7	112.6	12 300*
54.0	27.1	100.8	7 100*	39.4	110.2	11 600*
56.0	21.9	96.4	6 500*	36.0	107.6	10 900*
58.0	15.2	90.3	6 000*	32.2	104.6	10 300*
60.0				28.0	101.1	9 700*
62.0				23.1	96.8	9 000*
64.0				16.9	91.2	8 500*

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
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

73.2m BOOM, 57.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	75.5	132.2	17 500*			
20.0	75.3	132.1	17 500*			
22.0	73.3	131.6	17 000*			
24.0	71.2	130.9	16 400*			
26.0	69.1	130.2	15 800*			
28.0	67.0	129.4	15 100*			
30.0	64.8	128.4	14 500*			
32.0	62.6	127.4	13 800*			
34.0	60.3	126.3	13 100*	67.4	129.0	17 200*
36.0	58.0	125.1	12 500*	65.2	128.1	16 800*
38.0	55.6	123.8	11 800*	63.0	127.1	16 300*
40.0	53.2	122.3	11 100*	60.8	126.0	15 800*
42.0	50.6	120.7	10 500*	58.5	124.8	15 200*
44.0	48.0	119.0	9 900*	56.1	123.5	14 600*
46.0	45.3	117.1	9 300*	53.7	122.1	14 000*
48.0	42.4	115.0	8 700*	51.2	120.5	13 300*
50.0	39.3	112.6	8 000*	48.6	118.8	12 700*
52.0	36.1	110.0	7 300*	45.9	117.0	12 000*
54.0	32.5	107.0	6 600*	43.0	114.9	11 400*
56.0	28.6	103.6	6 000*	40.0	112.6	10 700*
58.0	24.1	99.5	5 400*	36.8	110.0	10 100*
60.0	18.5	94.2	4 900*	33.3	107.1	9 500*
62.0	10.4	86.3	4 500*	29.5	103.8	9 000*
64.0				25.1	99.9	8 500*
66.0				19.8	94.9	7 700*
68.0				12.5	87.9	7 000*

73.2m BOOM, 61.0m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
21.3	74.8	135.0	16 000*			
22.0	74.1	134.8	15 800*			
24.0	72.2	134.1	15 300*			
26.0	70.2	133.4	14 800*			
28.0	68.2	132.7	14 300*			
30.0	66.1	131.8	13 700*			
32.0	64.0	130.9	13 100*			
34.0	61.9	129.8	12 500*	68.6	132.3	16 000*
36.0	59.8	128.7	11 900*	66.6	131.4	15 700*
38.0	57.6	127.5	11 300*	64.5	130.5	15 300*
40.0	55.3	126.1	10 700*	62.4	129.5	14 900*
42.0	53.0	124.6	10 100*	60.2	128.4	14 400*
44.0	50.6	123.0	9 600*	58.0	127.2	13 900*
46.0	48.1	121.3	8 800*	55.8	125.9	13 300*
48.0	45.5	119.4	8 100*	53.5	124.4	12 800*
50.0	42.7	117.3	7 400*	51.1	122.8	12 200*
52.0	39.9	115.0	6 600*	48.6	121.1	11 600*
54.0	36.8	112.4	6 000*	46.0	119.3	11 000*
56.0	33.5	109.6	5 400*	43.3	117.2	10 500*
58.0	29.9	106.3	4 800*	40.5	115.0	9 900*
60.0	25.8	102.4	4 300*	37.5	112.5	9 400*
62.0	21.0	97.7	3 800*	34.2	109.7	8 700*
64.0	14.8	91.4	3 400*	30.7	106.5	7 900*
66.0				26.7	102.8	7 200*
68.0				22.1	98.3	6 500*
70.0				16.3	92.4	5 800*

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
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

76.2m BOOM, 33.5m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
13.7	75.8	111.7	31 600* ^b			
14.0	75.2	111.6	31 400* ^b			
16.0	71.6	111.0	30 100* ^b			
18.0	68.0	110.2	28 600*			
20.0	64.2	109.3	27 100*			
22.0	60.3	108.2	25 400*			
24.0	56.3	106.9	23 800*			
26.0	52.0	105.5	22 200*	65.5	109.1	28 100*
28.0	47.5	103.7	20 700*	61.7	108.0	26 600*
30.0	42.6	101.7	19 200*	57.7	106.8	25 200*
32.0	37.2	99.2	17 900*	53.5	105.4	23 900*
34.0	31.0	96.2	16 600*	49.1	103.8	22 600*
36.0	23.4	92.2	15 500*	44.4	101.9	21 400*
38.0	11.5	85.6	14 500*	39.2	99.6	20 300*
40.0				33.3	96.8	19 300*
42.0				26.2	93.2	18 300*
44.0				16.6	87.9	17 300*

76.2m BOOM, 39.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	75.8	117.6	26 900* ^b			
16.0	74.6	117.4	26 500* ^b			
18.0	71.5	116.7	25 400*			
20.0	68.4	116.0	24 200*			
22.0	65.3	115.1	23 000*			
24.0	62.0	114.1	21 700*			
26.0	58.7	112.9	20 400*	69.5	115.7	26 100*
28.0	55.2	111.6	19 100*	66.4	114.8	24 900*
30.0	51.6	110.1	17 900*	63.2	113.9	23 600*
32.0	47.8	108.3	16 700*	59.8	112.8	22 400*
34.0	43.7	106.3	15 600*	56.4	111.5	21 300*
36.0	39.3	104.0	14 600*	52.8	110.0	20 200*
38.0	34.4	101.3	13 600*	49.1	108.4	19 200*
40.0	28.7	98.0	12 700*	45.1	106.5	18 300*
42.0	21.8	93.6	11 900*	40.8	104.3	17 400*
44.0	11.3	86.7	11 200*	36.1	101.7	16 600*
46.0				30.8	98.6	15 600*
48.0				24.4	94.7	14 600*
50.0				15.7	89.1	13 600*

76.2m BOOM, 36.6m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
15.2	74.5	114.4	28 700* ^b			
16.0	73.2	114.2	28 200* ^b			
18.0	69.9	113.5	27 000*			
20.0	66.5	112.7	25 600*			
22.0	63.0	111.7	24 200*			
24.0	59.5	110.6	22 700*			
26.0	55.7	109.3	21 300*	67.7	112.4	27 100*
28.0	51.8	107.8	19 900*	64.2	111.5	25 700*
30.0	47.7	106.0	18 500*	60.7	110.4	24 300*
32.0	43.2	104.0	17 300*	57.0	109.2	23 100*
34.0	38.3	101.6	16 100*	53.2	107.7	21 900*
36.0	32.9	98.8	15 000*	49.1	106.1	20 700*
38.0	26.4	95.2	14 000*	44.8	104.2	19 700*
40.0	17.9	90.1	13 100*	40.1	101.9	18 700*
42.0				34.8	99.3	17 800*
44.0				28.8	96.0	16 900*
46.0				21.2	91.6	15 900*

76.2m BOOM, 42.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	74.6	120.3	24 400*			
18.0	72.9	119.9	23 900*			
20.0	70.1	119.2	22 800*			
22.0	67.2	118.4	21 800*			
24.0	64.2	117.5	20 600*			
26.0	61.2	116.5	19 500*			
28.0	58.0	115.3	18 400*	68.2	118.2	24 000*
30.0	54.8	113.9	17 200*	65.2	117.3	23 100*
32.0	51.4	112.4	16 100*	62.2	116.3	21 900*
34.0	47.8	110.6	15 100*	59.1	115.1	20 800*
36.0	44.1	108.7	14 100*	55.9	113.8	19 800*
38.0	40.0	106.4	13 200*	52.6	112.4	18 900*
40.0	35.6	103.8	12 400*	49.1	110.7	17 900*
42.0	30.6	100.6	11 500*	45.4	108.8	17 100*
44.0	24.7	96.7	10 800*	41.4	106.7	16 300*
46.0	17.0	91.3	10 200*	37.2	104.2	15 400*
48.0				32.4	101.2	14 400*
50.0				26.9	97.6	13 500*
52.0				20.0	92.9	12 600*



LIFT CRANE LUFFING JIB CAPACITIES _____ M-250 SERIES 2

**LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44 WITH HEAVY LIFT TOP
93 890 kg CRANE COUNTERWEIGHT
27 220 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING**

CAUTION: OUTSIDE ASSIST REQUIRED

76.2m BOOM, 45.7m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
16.8	75.6	123.5	22 900*			
18.0	74.1	123.1	22 400*			
20.0	71.4	122.5	21 500*			
22.0	68.8	121.7	20 600*			
24.0	66.0	120.9	19 600*			
26.0	63.3	119.9	18 600*			
28.0	60.4	118.8	17 600*	69.7	121.4	22 600*
30.0	57.5	117.6	16 600*	67.0	120.6	22 100*
32.0	54.4	116.2	15 600*	64.2	119.7	21 200*
34.0	51.2	114.7	14 600*	61.4	118.6	20 200*
36.0	47.9	112.9	13 700*	58.5	117.5	19 200*
38.0	44.4	111.0	12 800*	55.5	116.1	18 300*
40.0	40.7	108.8	12 100*	52.3	114.7	17 400*
42.0	36.6	106.2	11 300*	49.1	113.0	16 600*
44.0	32.1	103.2	10 500*	45.6	111.1	15 800*
46.0	27.0	99.6	9 900*	42.0	109.0	15 100*
48.0	20.6	95.0	9 300*	38.1	106.6	14 100*
50.0	11.2	87.7	8 800*	33.7	103.8	13 300*
52.0				28.8	100.4	12 400*
54.0				23.0	96.2	11 600*
56.0				15.1	90.2	10 900*

76.2m BOOM, 51.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	75.6	129.4	19 500*			
20.0	73.7	128.9	19 000*			
22.0	71.4	128.2	18 300*			
24.0	69.0	127.5	17 600*			
26.0	66.6	126.7	16 800*			
28.0	64.2	125.7	16 000*			
30.0	61.7	124.7	15 200*			
32.0	59.1	123.5	14 400*	67.4	126.4	19 000*
34.0	56.5	122.3	13 600*	65.0	125.5	18 400*
36.0	53.8	120.8	12 800*	62.5	124.5	17 900*
38.0	51.0	119.3	12 100*	60.0	123.4	17 100*
40.0	48.1	117.5	11 300*	57.4	122.1	16 400*
42.0	45.0	115.6	10 600*	54.7	120.8	15 600*
44.0	41.7	113.5	10 000*	52.0	119.3	14 900*
46.0	38.3	111.0	9 400*	49.1	117.6	14 200*
48.0	34.5	108.3	8 800*	46.0	115.7	13 500*
50.0	30.3	105.1	8 100*	42.9	113.7	12 700*
52.0	25.5	101.2	7 400*	39.5	111.3	12 000*
54.0	19.7	96.3	6 900*	35.8	108.7	11 300*
56.0	11.1	88.8	6 400*	31.8	105.7	10 600*
58.0				27.3	102.1	10 000*
60.0				21.8	97.6	9 400*
62.0				14.6	91.4	8 800*

76.2m BOOM, 48.8m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
18.3	74.7	126.2	20 900*			
20.0	72.6	125.7	20 200*			
22.0	70.2	125.0	19 400*			
24.0	67.6	124.2	18 500*			
26.0	65.0	123.3	17 600*			
28.0	62.4	122.3	16 800*			
30.0	59.7	121.2	15 900*	68.5	123.9	20 700*
32.0	56.9	119.9	15 000*	65.9	123.1	20 100*
34.0	54.1	118.5	14 100*	63.3	122.1	19 500*
36.0	51.1	117.0	13 300*	60.7	121.0	18 500*
38.0	48.0	115.2	12 400*	57.9	119.8	17 700*
40.0	44.7	113.3	11 600*	55.1	118.5	16 900*
42.0	41.2	111.1	10 900*	52.1	117.0	16 100*
44.0	37.5	108.6	10 300*	49.1	115.3	15 300*
46.0	33.4	105.8	9 600*	45.9	113.4	14 600*
48.0	28.8	102.4	9 000*	42.5	111.3	13 800*
50.0	23.4	98.2	8 500*	38.8	109.0	13 000*
52.0	16.3	92.5	8 000*	34.9	106.2	12 200*
54.0				30.4	103.1	11 500*
56.0				25.3	99.2	10 700*
58.0				19.0	94.2	10 100*

76.2m BOOM, 54.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	74.8	132.1	17 800*			
20.0	74.6	132.1	17 700*			
22.0	72.4	131.5	17 200*			
24.0	70.2	130.8	16 500*			
26.0	68.0	130.0	15 800*			
28.0	65.7	129.1	15 100*			
30.0	63.4	128.1	14 400*			
32.0	61.0	127.1	13 700*	68.8	129.7	17 700*
34.0	58.6	125.9	13 000*	66.5	128.9	17 300*
36.0	56.1	124.6	12 300*	64.2	127.9	16 800*
38.0	53.5	123.1	11 600*	61.8	126.9	16 300*
40.0	50.9	121.6	10 900*	59.4	125.7	15 700*
42.0	48.1	119.8	10 300*	57.0	124.5	15 000*
44.0	45.2	117.9	9 600*	54.4	123.1	14 300*
46.0	42.2	115.8	8 900*	51.8	121.6	13 700*
48.0	38.9	113.4	8 100*	49.1	119.9	13 100*
50.0	35.4	110.8	7 400*	46.2	118.0	12 400*
52.0	31.6	107.7	6 800*	43.2	116.0	11 700*
54.0	27.3	104.1	6 200*	40.1	113.7	11 000*
56.0	22.2	99.7	5 600*	36.7	111.1	10 400*
58.0	15.7	93.7	5 100*	33.0	108.2	9 800*
60.0				28.8	104.8	9 100*
62.0				24.1	100.7	8 400*
64.0				18.2	95.5	7 700*

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
 93 890 kg CRANE COUNTERWEIGHT
 27 220 kg CARBODY COUNTERWEIGHT
 360 DEGREE RATING

CAUTION: OUTSIDE ASSIST REQUIRED

76.2m BOOM, 57.9m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
19.8	75.7	135.3	16 600*			
20.0	75.5	135.2	16 600*			
22.0	73.4	134.6	16 100*			
24.0	71.3	134.0	15 600*			
26.0	69.2	133.3	15 000*			
28.0	67.1	132.4	14 300*			
30.0	64.9	131.5	13 700*			
32.0	62.7	130.5	13 100*			
34.0	60.4	129.4	12 500*	67.8	132.2	16 200*
36.0	58.1	128.2	11 800*	65.6	131.3	15 900*
38.0	55.7	126.9	11 200*	63.4	130.3	15 400*
40.0	53.3	125.5	10 500*	61.2	129.3	14 900*
42.0	50.8	123.9	9 700*	58.9	128.1	14 400*
44.0	48.2	122.1	9 000*	56.6	126.8	13 800*
46.0	45.4	120.2	8 200*	54.1	125.4	13 200*
48.0	42.5	118.1	7 500*	51.6	123.9	12 700*
50.0	39.5	115.8	6 900*	49.1	122.2	12 000*
52.0	36.3	113.2	6 200*	46.4	120.3	11 400*
54.0	32.7	110.2	5 600*	43.5	118.3	10 800*
56.0	28.8	106.8	5 100*	40.6	116.1	10 100*
58.0	24.3	102.8	4 600*	37.4	113.6	9 400*
60.0	18.9	97.6	4 100*	34.0	110.7	8 600*
62.0	11.0	89.9	3 700*	30.2	107.5	7 900*
64.0				25.9	103.7	7 200*
66.0				20.9	99.0	6 600*
68.0				14.2	92.5	6 000*

76.2m BOOM, 61.0m LUFFING JIB

JIB OPER. RAD. m	88 DEGREE BOOM ANGLE			83 DEGREE BOOM ANGLE		
	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg	JIB ANG. DEG.	JIB POINT ELEV. m	CAPACITY kg
21.3	74.9	138.0	15 100*			
22.0	74.2	137.8	15 000*			
24.0	72.3	137.2	14 600*			
26.0	70.3	136.5	14 000*			
28.0	68.3	135.7	13 500*			
30.0	66.2	134.9	13 000*			
32.0	64.2	134.0	12 400*			
34.0	62.0	132.9	11 800*	69.0	135.5	15 100*
36.0	59.9	131.8	11 200*	66.9	134.6	14 800*
38.0	57.7	130.6	10 400*	64.9	133.7	14 500*
40.0	55.4	129.2	9 700*	62.8	132.7	14 100*
42.0	53.1	127.8	8 900*	60.6	131.6	13 600*
44.0	50.7	126.2	8 200*	58.4	130.4	13 100*
46.0	48.2	124.4	7 600*	56.2	129.1	12 600*
48.0	45.6	122.5	6 900*	53.9	127.7	12 100*
50.0	42.9	120.5	6 200*	51.5	126.2	11 500*
52.0	40.0	118.2	5 600*	49.1	124.5	10 900*
54.0	37.0	115.6	5 000*	46.5	122.7	10 100*
56.0	33.7	112.8	4 400*	43.8	120.6	9 400*
58.0	30.1	109.5	4 000*	41.0	118.4	8 800*
60.0	26.1	105.7	3 400*	38.1	116.0	8 000*
62.0	21.3	101.1	3 000*	34.9	113.2	7 400*
64.0	15.2	94.9	2 700*	31.4	110.1	6 700*
66.0				27.5	106.5	6 100*
68.0				23.1	102.2	5 400*
70.0				17.5	96.7	4 900*

