

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin 54220



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

CHART SUPPLEMENTS BOOM CAPACITY CHART NO. 6934-B. CAPACITIES FOR VARIOUS BOOM LENGTHS, JIB LENGTHS AND 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 (*).

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF THE JIB LOAD. BOOM AND 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 SURFACE WITH CRAWLERS FULLY EXTENDED AND GANTRY UP. REFER TO BOOM RIGGING NO. 190693, JIB ASSEMBLY NO. 43730 AND WIRE ROPE SPECIFICATION CHART NO. 6592-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.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS THE ANGLE BETWEEN HORIZONTAL AND CENTERLINE OF BOOM BUTT AND INSERTS AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. JIB POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF JIB POINT SHAFT.

MACHINE EQUIPPED WITH 26'6" EXTENDIBLE CRAWLERS, 48" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 1ST CWT. = 41,900 LBS., 2ND CWT. = 41,500 LBS., 3RD CWT. = 39,000 LBS., TWO 12,000 LB. SIDE CWTs. AND TWO 30,000 LB. CARBODY CWTs.

MAXIMUM CAPACITY ON 1-1/8" - 6 X 31 IPS, IWRC IS 28,300 LBS. PER LINE.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED			
OVER END OF CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS	
BM. LGTH.	JIB NO. 123	BM. LGTH.	JIB NO. 123
260'	---	260'	---
250'	---	250'	---
240'	40'	240'	40'
230'	60'	230'	60'

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
110	35	80.2	147.3	40,000*	80.2	145.4	40,000*				35
	40	78.2	146.1	40,000*	78.1	144.0	40,000*	80.0	142.5	40,000*	40
	45	76.1	144.7	40,000*	76.0	142.4	40,000*	77.9	140.9	40,000*	45
	50	74.0	143.1	40,000*	73.8	140.6	40,000*	75.7	139.1	40,000*	50
	55	71.9	141.3	40,000*	71.7	138.6	40,000*	73.5	137.0	40,000*	55
	60	69.7	139.3	40,000*	69.5	136.3	40,000*	71.3	134.8	40,000*	60
	65	67.6	137.0	40,000*	67.3	133.8	40,000*	69.0	132.2	38,800*	65
	70	65.3	134.6	40,000*	65.0	131.1	40,000*	66.7	129.5	37,500*	70
	75	63.1	131.9	40,000*	62.6	128.1	40,000*	64.3	126.4	36,200*	75
	80	60.7	128.9	40,000*	57.8	121.2	40,000*	59.4	119.5	34,100*	80
	90	55.9	122.0	40,000*	52.6	113.0	37,500*				90
	100	50.7	113.8	40,000*	46.9	103.0	35,100*				100
120	110	45.1	103.9	36,400							110
	120	38.8	91.7	32,100							120
	40	79.0	156.4	40,000*	78.9	154.4	40,000*				40
	45	77.0	155.1	40,000*	76.9	152.9	40,000*	78.7	151.4	40,000*	45
	50	75.1	153.6	40,000*	75.0	151.2	40,000*	76.7	149.7	40,000*	50
	55	73.1	151.9	40,000*	73.0	149.3	40,000*	74.7	147.8	40,000*	55
	60	71.1	150.1	40,000*	70.9	147.3	40,000*	72.6	145.7	40,000*	60
	65	69.1	148.0	40,000*	68.9	145.0	40,000*	70.5	143.4	39,800*	65
	70	67.1	145.7	40,000*	66.8	142.5	40,000*	68.4	140.8	38,400*	70
	75	65.0	143.2	40,000*	64.6	139.7	40,000*	66.3	138.1	37,200*	75
	80	62.9	140.5	40,000*	60.2	133.5	40,000*	61.8	131.7	35,000*	80
	90	58.5	134.3	40,000*	55.6	126.1	39,000*	57.0	124.2	33,200*	90
	100	53.8	126.9	40,000*	50.6	117.3	36,100				100
	110	48.9	118.2	35,800							110
	120	43.5	107.7	31,500							120
	130	37.4	94.9	27,900							130

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MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12' 6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES - 146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26' 6" CRAWLERS EXTENDED

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
130	40	79.6	166.6	40,000*	79.6	164.7	40,000*				40
	45	77.8	165.4	40,000*							45
	50	76.0	164.0	40,000*	77.8	163.3	40,000*	79.4	161.8	40,000*	50
	55	74.2	162.5	40,000*	75.9	161.7	40,000*	77.6	160.2	40,000*	55
	60	72.3	160.7	40,000*	74.1	160.0	40,000*	75.7	158.4	40,000*	60
	65	70.5	158.8	40,000*	72.2	158.1	40,000*	73.8	156.5	40,000*	65
	70	68.6	156.7	40,000*	70.3	156.0	40,000*	71.8	154.3	40,000*	70
	75	66.6	154.4	40,000*	68.3	153.6	40,000*	69.9	152.0	39,300*	75
	80	64.7	151.9	40,000*	66.4	151.1	40,000*	67.9	149.4	38,100*	80
	90	60.6	146.2	40,000*	62.3	145.4	40,000*	63.8	143.6	35,900*	90
	100	56.4	139.5	40,000*	58.1	138.6	40,000*	59.5	136.8	34,100*	100
	110	52.0	131.6	35,400	53.6	130.7	35,800				110
	120	47.2	122.4	31,100	48.8	121.4	31,400				120
	130	42.0	111.4	27,500							130
140	40	80.3	176.8	40,000*							40
	45	78.6	175.7	40,000*	80.2	175.0	40,000*				45
	50	76.9	174.4	40,000*	78.5	173.7	40,000*	80.1	172.1	40,000*	50
	55	75.1	173.0	40,000*	76.8	172.2	40,000*	78.3	170.6	40,000*	55
	60	73.4	171.3	40,000*	75.0	170.6	40,000*	76.6	169.0	40,000*	60
	65	71.7	169.5	40,000*	73.3	168.8	40,000*	74.8	167.2	40,000*	65
	70	69.9	167.6	40,000*	71.5	166.8	40,000*	73.0	165.2	40,000*	70
	75	68.1	165.4	40,000*	69.7	164.6	40,000*	71.2	163.0	40,000*	75
	80	66.3	163.1	40,000*	67.8	162.3	40,000*	69.3	160.6	38,900*	80
	90	62.5	157.8	40,000*	64.1	157.0	40,000*	65.5	155.3	36,800*	90
	100	58.7	151.7	39,900	60.2	150.8	40,000*	61.6	149.0	34,900*	100
	110	54.6	144.5	34,700	56.1	143.6	35,200	57.4	141.7	33,300*	110
	120	50.3	136.2	30,500	51.8	135.2	30,800				120
	130	45.7	126.4	26,900	47.1	125.4	27,200				130
	140	40.7	114.9	23,900							140
150	45	79.2	186.0	40,000*							45
	50	77.6	184.7	40,000*	79.1	184.0	40,000*				50
	55	76.0	183.4	40,000*	77.5	182.6	40,000*	79.0	181.0	40,000*	55
	60	74.3	181.9	40,000*	75.9	181.1	40,000*	77.3	179.5	40,000*	60
	65	72.7	180.2	40,000*	74.2	179.4	40,000*	75.7	177.8	40,000*	65
	70	71.0	178.3	40,000*	72.5	177.5	40,000*	74.0	175.9	40,000*	70
	75	69.4	176.3	40,000*	70.9	175.5	40,000*	72.3	173.9	40,000*	75
	80	67.7	174.1	40,000*	69.1	173.3	40,000*	70.5	171.7	39,700*	80
	90	64.2	169.2	40,000*	65.7	168.4	40,000*	67.0	166.7	37,600*	90
	100	60.6	163.5	39,400	62.0	162.6	40,000*	63.4	160.9	35,700*	100
	110	56.8	156.9	34,200	58.3	156.0	34,700	59.5	154.1	34,100*	110
	120	52.9	149.3	29,900	54.3	148.4	30,300				120
	130	48.8	140.5	26,400	50.2	139.5	26,700				130
	140	44.3	130.3	23,300							140
	150	39.4	118.3	20,700							150
160	45	79.8	196.2	40,000*							45
	50	78.2	195.1	40,000*	79.7	194.3	40,000*				50
	55	76.7	193.8	40,000*	78.2	193.0	40,000*	79.6	191.4	40,000*	55
	60	75.2	192.3	40,000*	76.6	191.5	40,000*	78.0	189.9	40,000*	60
	65	73.6	190.7	40,000*	75.1	190.0	40,000*	76.4	188.3	40,000*	65
	70	72.1	189.0	40,000*	73.5	188.2	40,000*	74.9	186.6	40,000*	70
	75	70.5	187.1	40,000*	71.9	186.3	40,000*	73.3	184.7	40,000*	75
	80	68.9	185.1	40,000*	70.3	184.2	40,000*	71.6	182.6	40,000*	80
	90	65.6	180.4	40,000*	67.0	179.6	40,000*	68.3	177.9	38,300*	90
	100	62.3	175.1	38,800	63.7	174.3	39,400	64.9	172.5	36,400*	100
	110	58.8	169.0	33,600	60.2	168.1	34,100	61.4	166.3	34,600	110
	120	55.2	162.0	29,300	56.5	161.1	29,800	57.7	159.1	30,200	120
	130	51.4	154.0	25,700	52.7	153.0	26,100				130
	140	47.4	144.8	22,700	48.7	143.7	23,000				140
	150	43.0	134.1	20,100							150
	160	38.3	121.6	17,800							160

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60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

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BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
170	45	80.3	206.4	40,000*							45
	50	78.8	205.3	40,000*	80.2	204.6	40,000*				50
	55	77.4	204.1	40,000*	78.8	203.3	40,000*	80.1	201.7	40,000*	55
	60	75.9	202.7	40,000*	77.3	202.0	40,000*	78.6	200.3	40,000*	60
	65	74.5	201.2	40,000*	75.8	200.4	40,000*	77.1	198.8	40,000*	65
	70	73.0	199.6	40,000*	74.4	198.8	40,000*	75.6	197.1	40,000*	70
	75	71.5	197.8	40,000*	72.9	197.0	40,000*	74.1	195.3	40,000*	75
	80	70.0	195.9	40,000*	71.3	195.1	40,000*	72.6	193.4	40,000*	80
	90	66.9	191.5	40,000*	68.3	190.7	40,000*	69.5	189.0	39,000*	90
	100	63.8	186.5	38,500	65.1	185.7	39,100	66.3	183.9	37,100*	100
	110	60.5	180.8	33,200	61.8	179.9	33,800	63.0	178.1	34,300	110
	120	57.2	174.3	29,000	58.5	173.4	29,400	59.6	171.5	29,900	120
	130	53.7	166.9	25,400	54.9	166.0	25,800				130
	140	50.0	158.5	22,400	51.2	157.5	22,700				140
	150	46.1	148.9	19,700	47.3	147.8	20,000				150
	160	41.9	137.8	17,500							160
	170	37.3	124.9	15,500							170
180	50	79.4	215.6	40,000*							50
	55	78.0	214.4	40,000*	79.3	213.6	40,000*	80.6	212.0	40,000*	55
	60	76.6	213.1	40,000*	77.9	212.3	40,000*	79.2	210.7	40,000*	60
	65	75.2	211.7	40,000*	76.5	210.9	40,000*	77.8	209.2	40,000*	65
	70	73.8	210.1	40,000*	75.1	209.3	40,000*	76.4	207.7	40,000*	70
	75	72.4	208.4	40,000*	73.7	207.6	40,000*	74.9	206.0	40,000*	75
	80	71.0	206.6	40,000*	72.3	205.8	40,000*	73.5	204.1	40,000*	80
	90	68.1	202.5	40,000*	69.3	201.7	40,000*	70.5	199.9	39,700*	90
	100	65.1	197.8	37,900	66.4	196.9	38,600	67.5	195.2	37,800*	100
	110	62.1	192.4	32,700	63.3	191.5	33,200	64.4	189.7	33,800*	110
	120	58.9	186.3	28,400	60.2	185.4	28,900	61.3	183.5	29,300	120
	130	55.7	179.5	24,800	56.9	178.5	25,200	57.9	176.6	25,600	130
	140	52.3	171.7	21,800	53.5	170.7	22,100				140
	150	48.7	162.9	19,100	49.9	161.8	19,500				150
	160	44.9	152.9	16,900							160
	170	40.8	141.4	14,900							170
190	50	79.9	225.8	40,000*							50
	55	78.5	224.7	40,000*	79.8	223.9	40,000*				55
	60	77.2	223.5	40,000*	78.5	222.7	40,000*	79.7	221.0	40,000*	60
	65	75.9	222.1	40,000*	77.2	221.3	40,000*	78.3	219.6	40,000*	65
	70	74.6	220.6	40,000*	75.8	219.8	40,000*	77.0	218.1	40,000*	70
	75	73.2	219.0	40,000*	74.5	218.2	40,000*	75.6	216.5	40,000*	75
	80	71.9	217.3	40,000*	73.1	216.4	40,000*	74.3	214.7	40,000*	80
	90	69.1	213.4	40,000*	70.3	212.5	40,000*	71.5	210.8	40,000*	90
	100	66.3	208.9	37,400	67.5	208.1	38,100	68.6	206.3	38,500*	100
	110	63.4	203.9	32,100	64.6	203.0	32,700	65.7	201.2	33,300*	110
	120	60.5	198.1	27,800	61.7	197.2	28,400	62.7	195.4	28,900	120
	130	57.4	191.7	24,300	58.6	190.8	24,700	59.6	188.8	25,200	130
	140	54.3	184.5	21,200	55.4	183.5	21,600				140
	150	51.0	176.3	18,600	52.1	175.3	19,000				150
	160	47.5	167.2	16,300	48.6	166.1	16,700				160
	170	43.8	156.8	14,400							170
	180	39.8	144.9	12,600							180

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JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES - 146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
200	50	80.3	236.0	40,000*	80.3	234.1	40,000*				50
	55	79.0	234.9	40,000*							55
	60	77.8	233.8	40,000*	79.0	233.0	40,000*	80.1	231.3	40,000*	60
	65	76.5	232.5	40,000*	77.7	231.7	40,000*	78.9	230.0	40,000*	65
	70	75.2	231.1	40,000*	76.4	230.2	40,000*	77.6	228.6	40,000*	70
	75	74.0	229.5	40,000*	75.2	228.7	40,000*	76.3	227.0	40,000*	75
	80	72.7	227.9	40,000*	73.9	227.0	40,000*	75.0	225.3	40,000*	80
	90	70.0	224.2	40,000*	71.2	223.3	40,000*	72.3	221.6	40,000*	90
	100	67.4	219.9	36,800	68.6	219.1	37,500	69.6	217.3	38,200	100
	110	64.7	215.1	31,500	65.8	214.3	32,200	66.9	212.5	32,800	110
	120	61.9	209.7	27,200	63.0	208.8	27,800	64.0	207.0	28,400	120
	130	59.0	203.7	23,700	60.1	202.7	24,200	61.1	200.8	24,600	130
	140	56.0	196.9	20,600	57.2	195.9	21,100	58.1	194.0	21,500	140
	150	53.0	189.3	18,000	54.1	188.3	18,400				150
	160	49.7	180.8	15,700	50.8	179.8	16,100				160
210	170	46.4	171.3	13,800	47.4	170.2	14,100				170
	180	42.8	160.6	12,000							180
	190	38.9	148.3	10,400							190
	55	79.5	245.2	40,000*	80.7	244.4	40,000*				55
	60	78.3	244.1	40,000*	79.5	243.2	40,000*	80.6	241.6	40,000*	60
	65	77.1	242.8	40,000*	78.2	242.0	40,000*	79.3	240.3	40,000*	65
	70	75.9	241.5	40,000*	77.0	240.6	40,000*	78.1	239.0	40,000*	70
	75	74.6	240.0	40,000*	75.8	239.2	40,000*	76.9	237.5	40,000*	75
	80	73.4	238.4	40,000*	74.5	237.6	40,000*	75.6	235.9	40,000*	80
	90	70.9	234.9	40,000*	72.0	234.0	40,000*	73.1	232.3	40,000*	90
	100	68.4	230.9	36,400	69.5	230.0	37,200	70.5	228.2	37,900	100
	110	65.8	226.3	31,200	66.9	225.4	31,800	67.9	223.6	32,500	110
	120	63.1	221.2	26,900	64.2	220.3	27,500	65.2	218.4	28,000	120
	130	60.4	215.5	23,300	61.5	214.5	23,800	62.5	212.6	24,300	130
	140	57.6	209.1	20,200	58.7	208.1	20,700	59.7	206.2	21,100	140
	150	54.8	202.0	17,600	55.8	201.0	18,000				150
220	160	51.8	194.1	15,400	52.8	193.0	15,700				160
	170	48.6	185.2	13,400	49.7	184.2	13,700				170
	180	45.3	175.4	11,600							180
	190	41.8	164.3	10,000							190
	200	38.0	151.6	8,600							200
	55	79.9	255.4	40,000*							55
	60	78.8	254.3	40,000*	79.9	253.5	40,000*				60
	65	77.6	253.1	40,000*	78.7	252.3	40,000*	79.8	250.6	40,000*	65
	70	76.4	251.8	40,000*	77.5	251.0	40,000*	78.6	249.3	40,000*	70
	75	75.3	250.4	40,000*	76.4	249.6	40,000*	77.4	247.9	40,000*	75
	80	74.1	248.9	40,000*	75.2	248.1	40,000*	76.2	246.4	40,000*	80
	90	71.7	245.5	40,000*	72.8	244.7	40,000*	73.8	243.0	40,000*	90
	100	69.3	241.7	35,800	70.4	240.8	36,700	71.4	239.1	37,400	100
	110	66.8	237.4	30,600	67.9	236.5	31,300	68.9	234.7	32,000	110
	120	64.3	232.5	26,300	65.4	231.6	26,900	66.3	229.7	27,500	120
	130	61.7	227.1	22,700	62.8	226.1	23,300	63.7	224.2	23,800	130
	140	59.1	221.0	19,700	60.1	220.1	20,200	61.0	218.1	20,600	140
210	150	56.4	214.3	17,000	57.4	213.3	17,500	58.3	211.3	17,900	150
	160	53.6	206.9	14,800	54.6	205.9	15,200				160
	170	50.6	198.7	12,800	51.6	197.6	13,100				170
	180	47.6	189.5	11,000	48.5	188.4	11,300				180
	190	44.3	179.3	9,500							190
	200	40.9	167.9	8,000*							200
	210	37.2	154.9	6,500*							210

MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12' 6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
230	55	80.3	265.6	40,000*							55
	60	79.2	264.5	40,000*	80.3	263.7	40,000*				60
	65	78.1	263.4	40,000*	79.2	262.6	40,000*	80.2	260.9	40,000*	65
	70	77.0	262.2	40,000*	78.0	261.3	40,000*	79.0	259.6	40,000*	70
	75	75.8	260.8	40,000*	76.9	260.0	40,000*	77.9	258.3	40,000*	75
	80	74.7	259.4	40,000*	75.8	258.5	40,000*	76.8	256.8	40,000*	80
	90	72.4	256.1	40,000*	73.5	255.3	40,000*	74.5	253.5	40,000*	90
	100	70.1	252.5	35,300	71.1	251.6	36,200	72.1	249.8	37,000	100
	110	67.8	248.3	30,100	68.8	247.4	30,800	69.7	245.6	31,500	110
	120	65.4	243.7	25,800	66.4	242.8	26,400	67.3	240.9	27,000	120
	130	62.9	238.5	22,200	63.9	237.6	22,800	64.8	235.7	23,300	130
	140	60.4	232.8	19,100	61.4	231.8	19,700	62.3	229.9	20,100	140
	150	57.8	226.4	16,500	58.8	225.5	17,000	59.7	223.5	17,400	150
	160	55.2	219.4	14,200	56.2	218.4	14,700	57.0	216.4	15,000	160
	170	52.4	211.7	12,200	53.4	210.7	12,600				170
	180	49.6	203.2	10,500	50.5	202.1	10,800				180
	190	46.6	193.7	8,900	47.5	192.6	9,200				190
	200	43.4	183.2	7,300*							200
	210	40.1	171.4	5,800*							210
240	55	80.7	275.8	40,000*							55
	60	79.6	274.8	40,000*	80.6	273.9	40,000*				60
	65	78.5	273.7	40,000*	79.6	272.8	40,000*	80.5	271.1	40,000*	65
	70	77.5	272.5	40,000*	78.5	271.6	40,000*	79.5	269.9	40,000*	70
	75	76.4	271.2	40,000*	77.4	270.3	40,000*	78.4	268.6	40,000*	75
	80	75.3	269.8	40,000*	76.3	268.9	40,000*	77.3	267.2	40,000*	80
	90	73.1	266.7	40,000*	74.1	265.8	40,000*	75.1	264.1	40,000*	90
	100	70.9	263.2	34,800	71.9	262.3	35,700	72.8	260.5	36,500	100
	110	68.6	259.2	29,600	69.6	258.3	30,300	70.5	256.5	31,100	110
	120	66.3	254.8	25,300	67.3	253.9	25,900	68.2	252.0	26,600	120
	130	64.0	249.8	21,600	65.0	248.9	22,300	65.9	247.0	22,800	130
	140	61.6	244.4	18,600	62.6	243.4	19,200	63.4	241.5	19,600	140
	150	59.2	238.3	16,000	60.1	237.4	16,500	61.0	235.4	16,900	150
	160	56.6	231.7	13,700	57.6	230.7	14,100	58.4	228.7	14,500	160
	170	54.1	224.4	11,700	55.0	223.4	12,100				170
	180	51.4	216.4	9,900	52.3	215.4	10,300				180
	190	48.6	207.6	8,300*	49.5	206.5	8,700*				190
	200	45.6	197.8	6,600*	46.5	196.7	7,000*				200
	210	42.6	187.0	5,000*							210



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES - 146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

40 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
110	40	79.5	156.3	30,000*							40
	45	77.5	155.0	30,000*	80.0	154.1	30,000*				45
	50	75.6	153.6	30,000*	78.0	152.7	30,000*	80.5	150.8	30,000*	50
	55	73.6	151.9	30,000*	76.1	151.0	30,000*	78.4	149.1	30,000*	55
	60	71.6	150.0	30,000*	74.1	149.1	30,000*	76.4	147.2	30,000*	60
	65	69.6	148.0	30,000*	72.0	147.0	30,000*	74.4	145.1	30,000*	65
	70	67.6	145.7	30,000*	70.0	144.8	30,000*	72.3	142.7	30,000*	70
	75	65.5	143.2	30,000*	67.9	142.2	30,000*	70.1	140.2	29,100*	75
	80	63.4	140.5	30,000*	65.7	139.5	30,000*	68.0	137.4	28,100*	80
	90	59.0	134.3	30,000*	61.3	133.2	30,000*	63.5	131.0	26,300*	90
110	100	54.3	126.9	30,000*	56.6	125.8	29,200*	58.7	123.5	24,800*	100
	110	49.4	118.2	30,000*	51.6	117.0	27,200*				110
	120	44.0	107.7	28,800*							120
	130	37.9	94.9	26,700*							130
120	40	80.1	166.6	30,000*							40
	45	78.3	165.4	30,000*							45
	50	76.5	164.0	30,000*	78.8	163.1	30,000*				50
	55	74.7	162.4	30,000*	77.0	161.5	30,000*	79.2	159.5	30,000*	55
	60	72.8	160.7	30,000*	75.1	159.8	30,000*	77.3	157.8	30,000*	60
	65	70.9	158.8	30,000*	73.2	157.8	30,000*	75.4	155.8	30,000*	65
	70	69.0	156.7	30,000*	71.3	155.7	30,000*	73.5	153.7	30,000*	70
	75	67.1	154.4	30,000*	69.4	153.4	30,000*	71.5	151.3	29,800*	75
	80	65.1	151.9	30,000*	67.4	150.9	30,000*	69.5	148.8	28,800*	80
	90	61.1	146.2	30,000*	63.3	145.1	30,000*	65.4	142.9	27,000*	90
120	100	56.9	139.5	30,000*	59.1	138.4	30,000*	61.0	136.0	25,500*	100
	110	52.4	131.6	30,000*	54.6	130.4	28,300*				110
	120	47.7	122.4	30,000*	49.8	121.1	26,600*				120
	130	42.5	111.3	28,200*							130
	140	36.6	97.9	25,300							140
130	45	79.0	175.7	30,000*							45
	50	77.3	174.4	30,000*	79.5	173.4	30,000*				50
	55	75.6	172.9	30,000*	77.8	172.0	30,000*	79.9	170.0	30,000*	55
	60	73.8	171.3	30,000*	76.0	170.3	30,000*	78.1	168.3	30,000*	60
	65	72.1	169.5	30,000*	74.2	168.5	30,000*	76.3	166.5	30,000*	65
	70	70.3	167.5	30,000*	72.5	166.6	30,000*	74.5	164.5	30,000*	70
	75	68.5	165.4	30,000*	70.6	164.4	30,000*	72.7	162.3	30,000*	75
	80	66.7	163.1	30,000*	68.8	162.0	30,000*	70.8	159.9	29,400*	80
	90	63.0	157.8	30,000*	65.1	156.7	30,000*	67.0	154.5	27,600*	90
	100	59.1	151.6	30,000*	61.2	150.5	30,000*	63.0	148.2	26,100*	100
130	110	55.0	144.5	30,000*	57.1	143.3	29,300*	58.9	140.9	24,800*	110
	120	50.7	136.1	30,000*	52.7	134.9	27,600*				120
	130	46.1	126.4	27,900	48.1	125.1	26,100*				130
	140	41.1	114.9	24,900							140
140	45	79.6	185.9	30,000*							45
	50	78.0	184.7	30,000*	80.1	183.7	30,000*				50
	55	76.4	183.3	30,000*	78.4	182.4	30,000*	80.4	180.3	30,000*	55
	60	74.8	181.8	30,000*	76.8	180.8	30,000*	78.8	178.8	30,000*	60
	65	73.1	180.1	30,000*	75.1	179.1	30,000*	77.1	177.1	30,000*	65
	70	71.4	178.3	30,000*	73.5	177.3	30,000*	75.4	175.2	30,000*	70
	75	69.8	176.3	30,000*	71.8	175.3	30,000*	73.7	173.1	30,000*	75
	80	68.1	174.1	30,000*	70.1	173.1	30,000*	72.0	170.9	30,000*	80
	90	64.6	169.2	30,000*	66.6	168.1	30,000*	68.4	165.9	28,200*	90
	100	61.0	163.5	30,000*	62.9	162.4	30,000*	64.7	160.1	26,700*	100
140	110	57.2	156.9	30,000*	59.2	155.7	30,000*	60.9	153.3	25,400*	110
	120	53.3	149.3	30,000*	55.2	148.1	28,600*	56.9	145.5	24,300*	120
	130	49.2	140.5	27,300	51.0	139.2	27,000*				130
	140	44.7	130.3	24,300	46.5	128.9	24,600				140
	150	39.8	118.3	21,600							150

MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

40 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
150	45	80.2	196.2	30,000*							45
	50	78.6	195.0	30,000*	80.6	194.0	30,000*				50
	55	77.1	193.7	30,000*	79.1	192.7	30,000*				55
	60	75.6	192.3	30,000*	77.5	191.3	30,000*	79.4	189.2	30,000*	60
	65	74.0	190.7	30,000*	76.0	189.7	30,000*	77.8	187.6	30,000*	65
	70	72.5	189.0	30,000*	74.4	187.9	30,000*	76.2	185.8	30,000*	70
	75	70.9	187.1	30,000*	72.8	186.0	30,000*	74.6	183.9	30,000*	75
	80	69.3	185.0	30,000*	71.2	184.0	30,000*	73.0	181.8	30,000*	80
	90	66.0	180.4	30,000*	67.9	179.3	30,000*	69.7	177.1	28,800*	90
	100	62.7	175.1	30,000*	64.5	174.0	30,000*	66.2	171.7	27,300*	100
	110	59.2	169.0	30,000*	61.0	167.8	30,000*	62.7	165.4	26,000*	110
	120	55.6	162.0	30,000*	57.4	160.7	29,500*	59.0	158.3	24,900*	120
	130	51.8	153.9	26,700	53.6	152.7	27,200				130
	140	47.8	144.7	23,700	49.5	143.4	24,100				140
	150	43.4	134.1	21,100							150
	160	38.7	121.6	18,800							160
160	50	79.2	205.3	30,000*							50
	55	77.8	204.1	30,000*	79.6	203.0	30,000*				55
	60	76.3	202.7	30,000*	78.2	201.7	30,000*	79.9	199.6	30,000*	60
	65	74.8	201.2	30,000*	76.7	200.2	30,000*	78.5	198.0	30,000*	65
	70	73.4	199.6	30,000*	75.2	198.5	30,000*	76.9	196.4	30,000*	70
	75	71.9	197.8	30,000*	73.7	196.7	30,000*	75.4	194.6	30,000*	75
	80	70.3	195.8	30,000*	72.2	194.8	30,000*	73.9	192.6	30,000*	80
	90	67.3	191.5	30,000*	69.1	190.4	30,000*	70.8	188.2	29,300*	90
	100	64.1	186.5	30,000*	65.9	185.4	30,000*	67.6	183.1	27,800*	100
	110	60.9	180.8	30,000*	62.6	179.6	30,000*	64.3	177.2	26,500*	110
	120	57.5	174.3	29,700	59.3	173.1	30,000*	60.8	170.6	25,400*	120
	130	54.0	166.9	26,100	55.7	165.6	26,700	57.2	163.0	24,400*	130
	140	50.3	158.5	23,100	52.0	157.1	23,500				140
	150	46.4	148.8	20,500	48.1	147.4	20,900				150
	160	42.2	137.8	18,200							160
	170	37.6	124.8	16,200							170
170	50	79.7	215.5	30,000*							50
	55	78.3	214.4	30,000*	80.1	213.3	30,000*				55
	60	77.0	213.1	30,000*	78.7	212.0	30,000*	80.4	209.9	30,000*	60
	65	75.6	211.6	30,000*	77.3	210.6	30,000*	79.0	208.5	30,000*	65
	70	74.2	210.1	30,000*	75.9	209.0	30,000*	77.6	206.9	30,000*	70
	75	72.7	208.4	30,000*	74.5	207.3	30,000*	76.2	205.2	30,000*	75
	80	71.3	206.6	30,000*	73.1	205.5	30,000*	74.7	203.3	30,000*	80
	90	68.4	202.5	30,000*	70.1	201.4	30,000*	71.8	199.1	29,800*	90
	100	65.5	197.8	30,000*	67.2	196.6	30,000*	68.7	194.3	28,400*	100
	110	62.4	192.4	30,000*	64.1	191.2	30,000*	65.6	188.9	27,100*	110
	120	59.3	186.3	29,400	60.9	185.1	30,000*	62.4	182.6	25,900*	120
	130	56.0	179.4	25,800	57.6	178.2	26,300	59.1	175.6	24,900*	130
	140	52.6	171.6	22,700	54.2	170.3	23,200				140
	150	49.0	162.8	20,100	50.6	161.5	20,500				150
	160	45.2	152.8	17,800	46.8	151.4	18,200				160
	170	41.1	141.3	15,900							170
	180	36.7	127.9	14,100							180



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

40 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
180	50	80.2	225.8	30,000*							50
	55	78.9	224.6	30,000*	80.6	223.6	30,000*				55
	60	77.6	223.4	30,000*	79.2	222.4	30,000*				60
	65	76.2	222.1	30,000*	77.9	221.0	30,000*	79.5	218.8	30,000*	65
	70	74.9	220.6	30,000*	76.6	219.5	30,000*	78.2	217.3	30,000*	70
	75	73.6	219.0	30,000*	75.2	217.9	30,000*	76.8	215.7	30,000*	75
	80	72.2	217.2	30,000*	73.9	216.1	30,000*	75.4	213.9	30,000*	80
	90	69.4	213.3	30,000*	71.1	212.2	30,000*	72.6	210.0	30,000*	90
	100	66.6	208.9	30,000*	68.3	207.8	30,000*	69.8	205.4	28,800*	100
	110	63.8	203.8	30,000*	65.4	202.7	30,000*	66.9	200.3	27,500*	110
	120	60.8	198.1	28,800	62.4	196.9	29,500	63.9	194.5	26,400*	120
	130	57.8	191.6	25,200	59.3	190.4	25,800	60.7	187.9	25,400*	130
	140	54.6	184.4	22,100	56.1	183.1	22,700	57.5	180.5	23,100	140
	150	51.3	176.3	19,500	52.8	174.9	20,000				150
	160	47.8	167.1	17,200	49.3	165.7	17,600				160
	170	44.1	156.7	15,300							170
	180	40.1	144.8	13,500							180
190	50	80.6	236.0	30,000*							50
	55	79.4	234.9	30,000*							55
	60	78.1	233.7	30,000*	79.7	232.7	30,000*				60
	65	76.8	232.4	30,000*	78.4	231.4	30,000*	80.0	229.2	30,000*	65
	70	75.6	231.0	30,000*	77.2	229.9	30,000*	78.7	227.7	30,000*	70
	75	74.3	229.5	30,000*	75.9	228.4	30,000*	77.4	226.2	30,000*	75
	80	73.0	227.8	30,000*	74.6	226.7	30,000*	76.1	224.5	30,000*	80
	90	70.4	224.1	30,000*	72.0	223.0	30,000*	73.4	220.7	30,000*	90
	100	67.7	219.9	30,000*	69.3	218.8	30,000*	70.7	216.4	29,300*	100
	110	65.0	215.1	30,000*	66.5	213.9	30,000*	68.0	211.6	28,000*	110
	120	62.2	209.7	28,200	63.7	208.5	29,000	65.1	206.1	26,800*	120
	130	59.3	203.6	24,600	60.8	202.4	25,300	62.2	199.9	25,800*	130
	140	56.4	196.8	21,600	57.9	195.6	22,200	59.2	193.0	22,700	140
	150	53.3	189.3	19,000	54.8	187.9	19,500				150
	160	50.1	180.8	16,700	51.5	179.4	17,100				160
	170	46.7	171.3	14,700	48.1	169.8	15,100				170
	180	43.1	160.5	13,000							180
	190	39.2	148.2	11,400							190
200	55	79.8	245.1	30,000*							55
	60	78.6	244.0	30,000*	80.2	242.9	30,000*				60
	65	77.4	242.8	30,000*	78.9	241.7	30,000*	80.4	239.5	30,000*	65
	70	76.2	241.4	30,000*	77.7	240.3	30,000*	79.2	238.1	30,000*	70
	75	74.9	239.9	30,000*	76.5	238.9	30,000*	78.0	236.6	30,000*	75
	80	73.7	238.4	30,000*	75.2	237.3	30,000*	76.7	235.0	30,000*	80
	90	71.2	234.8	30,000*	72.7	233.7	30,000*	74.2	231.4	30,000*	90
	100	68.7	230.8	30,000*	70.2	229.7	30,000*	71.6	227.4	29,700*	100
	110	66.1	226.2	30,000*	67.6	225.1	30,000*	69.0	222.7	28,400*	110
	120	63.5	221.1	27,700	64.9	219.9	28,400	66.3	217.5	27,300*	120
	130	60.7	215.4	24,100	62.2	214.2	24,700	63.5	211.7	25,400	130
	140	57.9	209.0	21,000	59.4	207.8	21,600	60.7	205.2	22,100	140
	150	55.1	201.9	18,400	56.5	200.6	18,900	57.7	197.9	19,400	150
	160	52.1	194.0	16,100	53.5	192.6	16,600				160
	170	48.9	185.2	14,100	50.3	183.8	14,500				170
	180	45.6	175.3	12,400	47.0	173.8	12,700				180
	190	42.1	164.2	10,800							190
	200	38.3	151.5	9,400							200

MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12' 6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26' 6" CRAWLERS EXTENDED

40 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
210	55	80.2	255.3	30,000*							55
	60	79.1	254.3	30,000*	80.6	253.2	30,000*				60
	65	77.9	253.1	30,000*	79.4	252.0	30,000*				65
	70	76.7	251.8	30,000*	78.2	250.7	30,000*	79.6	248.5	30,000*	70
	75	75.6	250.4	30,000*	77.0	249.3	30,000*	78.5	247.0	30,000*	75
	80	74.4	248.9	30,000*	75.8	247.8	30,000*	77.3	245.5	30,000*	80
	90	72.0	245.5	30,000*	73.5	244.4	30,000*	74.8	242.1	30,000*	90
	100	69.6	241.6	30,000*	71.0	240.5	30,000*	72.4	238.2	30,000*	100
	110	67.1	237.3	30,000*	68.5	236.1	30,000*	69.9	233.8	28,900*	110
	120	64.6	232.4	27,300	66.0	231.2	28,100	67.3	228.8	27,700*	120
	130	62.0	227.0	23,700	63.4	225.8	24,400	64.7	223.3	25,000	130
	140	59.4	221.0	20,600	60.8	219.7	21,200	62.0	217.2	21,800	140
	150	56.7	214.3	18,000	58.0	213.0	18,600	59.3	210.3	19,100	150
	160	53.8	206.8	15,700	55.2	205.5	16,200				160
	170	50.9	198.6	13,700	52.3	197.2	14,200				170
	180	47.9	189.5	12,000	49.2	188.0	12,300				180
220	190	44.6	179.3	10,400							190
	200	41.2	167.8	9,000							200
	210	37.5	154.8	7,700*							210
	55	80.6	265.5	30,000*							55
	60	79.5	264.5	30,000*							60
	65	78.4	263.4	30,000*	79.8	262.3	30,000*				65
	70	77.3	262.1	30,000*	78.7	261.0	30,000*	80.1	258.8	30,000*	70
	75	76.1	260.8	30,000*	77.5	259.7	30,000*	78.9	257.4	30,000*	75
	80	75.0	259.3	30,000*	76.4	258.2	30,000*	77.8	255.9	30,000*	80
	90	72.7	256.1	30,000*	74.1	255.0	30,000*	75.4	252.7	30,000*	90
	100	70.4	252.4	30,000*	71.8	251.3	30,000*	73.1	248.9	30,000*	100
	110	68.0	248.3	30,000*	69.4	247.1	30,000*	70.7	244.7	29,300*	110
	120	65.6	243.6	26,700	67.0	242.4	27,500	68.3	240.0	28,100*	120
	130	63.2	238.4	23,100	64.5	237.2	23,800	65.8	234.8	24,500	130
	140	60.7	232.7	20,000	62.0	231.5	20,700	63.2	228.9	21,300	140
	150	58.1	226.4	17,400	59.4	225.1	18,000	60.6	222.5	18,500	150
230	160	55.5	219.4	15,100	56.8	218.1	15,700	57.9	215.4	16,100	160
	170	52.7	211.7	13,100	54.0	210.3	13,600				170
	180	49.9	203.1	11,400	51.1	201.7	11,800				180
	190	46.9	193.7	9,800	48.1	192.2	10,200				190
	200	43.7	183.1	8,400							200
	210	40.3	171.3	6,900*							210
	220	36.7	157.9	5,500*							220
	60	79.9	274.7	30,000*	80.2	272.5	30,000*				60
	65	78.8	273.6	30,000*							65
	70	77.7	272.4	30,000*	79.1	271.3	30,000*	80.4	269.1	30,000*	70
	75	76.6	271.1	30,000*	78.0	270.0	30,000*	79.3	267.8	30,000*	75
	80	75.6	269.7	30,000*	76.9	268.6	30,000*	78.2	266.3	30,000*	80
	90	73.4	266.6	30,000*	74.7	265.5	30,000*	76.0	263.2	30,000*	90
	100	71.1	263.1	30,000*	72.5	262.0	30,000*	73.8	259.6	30,000*	100
	110	68.9	259.1	30,000*	70.2	258.0	30,000*	71.5	255.6	29,700*	110
	120	66.6	254.7	26,200	67.9	253.5	27,100	69.1	251.1	27,900	120
	130	64.3	249.8	22,600	65.6	248.5	23,400	66.8	246.1	24,100	130
	140	61.9	244.3	19,500	63.2	243.1	20,200	64.4	240.5	20,900	140
	150	59.4	238.3	16,900	60.7	237.0	17,500	61.9	234.4	18,100	150
	160	56.9	231.7	14,600	58.2	230.3	15,200	59.3	227.7	15,700	160
	170	54.3	224.4	12,600	55.6	223.0	13,100				170
	180	51.6	216.4	10,800	52.9	214.9	11,300				180
	190	48.8	207.5	9,300	50.1	206.1	9,700				190
	200	45.9	197.8	7,800*	47.1	196.2	8,200				200
	210	42.8	186.9	6,200*							210
	220	39.5	174.8	4,800*							220

MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES - 146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

40 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
240	60	80.2	284.9	30,000*	80.5	282.8	30,000*				60
	65	79.2	283.9	30,000*							65
	70	78.2	282.7	30,000*	79.5	281.6	30,000*				70
	75	77.1	281.5	30,000*	78.5	280.3	30,000*	79.7	278.1	30,000*	75
	80	76.1	280.1	30,000*	77.4	279.0	30,000*	78.7	276.7	30,000*	80
	90	74.0	277.2	30,000*	75.3	276.0	30,000*	76.5	273.7	30,000*	90
	100	71.8	273.8	30,000*	73.1	272.6	30,000*	74.4	270.3	30,000*	100
	110	69.7	269.9	30,000*	71.0	268.8	30,000*	72.2	266.4	30,000*	110
	120	67.5	265.7	25,700	68.8	264.5	26,600	70.0	262.1	27,400	120
	130	65.2	261.0	22,100	66.5	259.8	22,900	67.7	257.3	23,600	130
	140	63.0	255.8	19,000	64.2	254.5	19,700	65.4	252.0	20,400	140
	150	60.6	250.0	16,400	61.9	248.8	17,000	63.0	246.2	17,600	150
	160	58.2	243.7	14,100	59.5	242.4	14,700	60.6	239.8	15,200	160
	170	55.8	236.8	12,100	57.0	235.5	12,600	58.1	232.8	13,100	170
	180	53.3	229.3	10,300	54.5	227.9	10,800				180
	190	50.6	221.0	8,700	51.8	219.5	9,200				190
	200	47.9	211.8	7,100*	49.1	210.3	7,600*				200
	210	45.0	201.8	5,500*							210
	220	42.0	190.6	4,100*							220

REHEATED ONLY

LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12' 6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26' 6" CRAWLERS EXTENDED

50 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
110	40	80.7	166.8	20,000*							40
	45	78.9	165.6	20,000*							45
	50	77.1	164.3	20,000*	80.0	163.3	20,000*				50
	55	75.2	162.8	20,000*	78.1	161.8	20,000*				55
	60	73.4	161.1	20,000*	76.3	160.1	20,000*	79.1	157.9	20,000*	60
	65	71.5	159.2	20,000*	74.4	158.2	20,000*	77.2	155.9	20,000*	65
	70	69.6	157.1	20,000*	72.5	156.1	20,000*	75.2	153.8	20,000*	70
	75	67.7	154.8	20,000*	70.5	153.8	20,000*	73.3	151.5	20,000*	75
	80	65.8	152.4	20,000*	68.6	151.3	20,000*	71.3	149.0	20,000*	80
	90	61.7	146.8	20,000*	64.5	145.7	20,000*	67.2	143.2	20,000*	90
	100	57.5	140.2	20,000*	60.3	139.0	20,000*	62.8	136.4	20,000*	100
	110	53.1	132.4	20,000*	55.8	131.2	20,000*	58.3	128.5	19,300*	110
	120	48.4	123.3	20,000*	51.0	122.0	20,000*				120
	130	43.2	112.5	20,000*							130
	140	37.4	99.3	20,000*							140
120	45	79.5	175.9	20,000*							45
	50	77.8	174.6	20,000*	80.6	173.6	20,000*				50
	55	76.1	173.2	20,000*	78.8	172.2	20,000*				55
	60	74.4	171.6	20,000*	77.1	170.6	20,000*	79.8	168.3	20,000*	60
	65	72.6	169.9	20,000*	75.3	168.8	20,000*	78.0	166.6	20,000*	65
	70	70.9	167.9	20,000*	73.6	166.9	20,000*	76.2	164.6	20,000*	70
	75	69.1	165.8	20,000*	71.8	164.8	20,000*	74.3	162.4	20,000*	75
	80	67.3	163.5	20,000*	69.9	162.4	20,000*	72.5	160.1	20,000*	80
	90	63.5	158.3	20,000*	66.2	157.2	20,000*	68.7	154.7	20,000*	90
	100	59.7	152.2	20,000*	62.3	151.1	20,000*	64.7	148.5	20,000*	100
	110	55.6	145.2	20,000*	58.2	144.0	20,000*	60.6	141.3	19,900*	110
	120	51.4	137.0	20,000*	53.9	135.7	20,000*				120
	130	46.8	127.4	20,000*	49.3	126.0	20,000*				130
	140	41.8	116.0	20,000*							140
	150	36.2	102.3	20,000*							150
130	45	80.1	186.2	20,000*							45
	50	78.5	185.0	20,000*							50
	55	76.9	183.6	20,000*	79.5	182.6	20,000*				55
	60	75.3	182.1	20,000*	77.8	181.1	20,000*	80.4	178.8	20,000*	60
	65	73.6	180.5	20,000*	76.2	179.4	20,000*	78.7	177.1	20,000*	65
	70	72.0	178.7	20,000*	74.5	177.6	20,000*	77.0	175.2	20,000*	70
	75	70.3	176.7	20,000*	72.8	175.6	20,000*	75.3	173.2	20,000*	75
	80	68.6	174.5	20,000*	71.1	173.4	20,000*	73.5	171.0	20,000*	80
	90	65.1	169.7	20,000*	67.6	168.5	20,000*	70.0	166.1	20,000*	90
	100	61.5	164.0	20,000*	64.0	162.9	20,000*	66.3	160.3	20,000*	100
	110	57.8	157.5	20,000*	60.3	156.3	20,000*	62.5	153.6	20,000*	110
	120	53.9	150.0	20,000*	56.3	148.7	20,000*	58.5	145.9	19,400*	120
	130	49.8	141.4	20,000*	52.1	140.0	20,000*				130
	140	45.4	131.3	20,000*	47.7	129.8	20,000*				140
	150	40.5	119.5	20,000*							150
140	45	80.6	196.4	20,000*							45
	50	79.1	195.3	20,000*							50
	55	77.6	194.0	20,000*	80.0	192.9	20,000*				55
	60	76.1	192.6	20,000*	78.5	191.5	20,000*	80.9	189.1	20,000*	60
	65	74.5	191.0	20,000*	76.9	189.9	20,000*	79.3	187.6	20,000*	65
	70	73.0	189.3	20,000*	75.4	188.2	20,000*	77.7	185.8	20,000*	70
	75	71.4	187.4	20,000*	73.8	186.3	20,000*	76.1	183.9	20,000*	75
	80	69.8	185.4	20,000*	72.2	184.3	20,000*	74.5	181.8	20,000*	80
	90	66.5	180.9	20,000*	68.9	179.7	20,000*	71.2	177.2	20,000*	90
	100	63.2	175.6	20,000*	65.5	174.4	20,000*	67.7	171.8	20,000*	100
	110	59.7	169.6	20,000*	62.0	168.3	20,000*	64.2	165.6	20,000*	110
	120	56.1	162.7	20,000*	58.4	161.4	20,000*	60.5	158.5	19,900*	120
	130	52.3	154.7	20,000*	54.6	153.4	20,000*	56.6	150.4	19,000*	130
	140	48.3	145.7	20,000*	50.6	144.2	20,000*				140
	150	44.1	135.2	20,000*	46.2	133.6	20,000*				150
	160	39.4	122.9	19,700							160

MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES

JIB NO. 123 WITH 12' 6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES - 146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26' 6" CRAWLERS EXTENDED

50 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
150	50	79.7	205.5	20,000*	80.5	203.2	20,000*				50
	55	78.2	204.3	20,000*							55
	60	76.8	203.0	20,000*	79.1	201.9	20,000*				60
	65	75.3	201.5	20,000*	77.6	200.4	20,000*	79.9	198.0	20,000*	65
	70	73.8	199.9	20,000*	76.1	198.8	20,000*	78.4	196.3	20,000*	70
	75	72.3	198.1	20,000*	74.6	197.0	20,000*	76.8	194.5	20,000*	75
	80	70.8	196.2	20,000*	73.1	195.1	20,000*	75.3	192.6	20,000*	80
	90	67.8	191.9	20,000*	70.0	190.8	20,000*	72.2	188.2	20,000*	90
	100	64.6	187.0	20,000*	66.9	185.8	20,000*	69.0	183.2	20,000*	100
	110	61.4	181.4	20,000*	63.6	180.1	20,000*	65.7	177.4	20,000*	110
	120	58.0	174.9	20,000*	60.2	173.6	20,000*	62.2	170.8	20,000*	120
	130	54.6	167.6	20,000*	56.7	166.2	20,000*	58.7	163.3	19,400*	130
	140	50.9	159.3	20,000*	53.0	157.9	20,000*				140
	150	47.0	149.8	20,000*	49.1	148.3	20,000*				150
	160	42.8	138.9	19,100							160
	170	38.3	126.1	17,100							170
160	50	80.2	215.7	20,000*							50
	55	78.8	214.6	20,000*							55
	60	77.4	213.3	20,000*	79.6	212.2	20,000*				60
	65	76.0	211.9	20,000*	78.2	210.8	20,000*	80.4	208.3	20,000*	65
	70	74.6	210.4	20,000*	76.8	209.2	20,000*	78.9	206.8	20,000*	70
	75	73.2	208.7	20,000*	75.4	207.6	20,000*	77.5	205.1	20,000*	75
	80	71.8	206.9	20,000*	73.9	205.8	20,000*	76.0	203.2	20,000*	80
	90	68.9	202.9	20,000*	71.0	201.7	20,000*	73.1	199.1	20,000*	90
	100	65.9	198.2	20,000*	68.0	197.0	20,000*	70.1	194.4	20,000*	100
	110	62.9	192.9	20,000*	65.0	191.7	20,000*	67.0	189.0	20,000*	110
	120	59.7	186.9	20,000*	61.8	185.6	20,000*	63.8	182.8	20,000*	120
	130	56.5	180.1	20,000*	58.6	178.7	20,000*	60.4	175.8	19,900*	130
	140	53.1	172.4	20,000*	55.2	171.0	20,000*	57.0	167.9	19,100*	140
	150	49.6	163.7	20,000*	51.6	162.2	20,000*				150
	160	45.8	153.8	18,500	47.8	152.2	18,900				160
	170	41.7	142.5	16,500							170
	180	37.3	129.3	14,700							180
170	50	80.6	226.0	20,000*							50
	55	79.3	224.9	20,000*							55
	60	78.0	223.7	20,000*	80.1	222.5	20,000*				60
	65	76.7	222.3	20,000*	78.8	221.2	20,000*	80.8	218.7	20,000*	65
	70	75.3	220.9	20,000*	77.4	219.7	20,000*	79.5	217.2	20,000*	70
	75	74.0	219.3	20,000*	76.1	218.1	20,000*	78.1	215.6	20,000*	75
	80	72.6	217.6	20,000*	74.7	216.4	20,000*	76.7	213.8	20,000*	80
	90	69.9	213.7	20,000*	71.9	212.5	20,000*	73.9	209.9	20,000*	90
	100	67.1	209.3	20,000*	69.1	208.1	20,000*	71.1	205.4	20,000*	100
	110	64.2	204.3	20,000*	66.2	203.0	20,000*	68.1	200.3	20,000*	110
	120	61.3	198.7	20,000*	63.3	197.3	20,000*	65.1	194.6	20,000*	120
	130	58.2	192.3	20,000*	60.2	190.9	20,000*	62.0	188.0	20,000*	130
	140	55.1	185.1	20,000*	57.0	183.7	20,000*	58.8	180.7	19,500*	140
	150	51.8	177.1	20,000*	53.7	175.6	20,000*				150
	160	48.3	168.0	18,100	50.2	166.5	18,600				160
	170	44.6	157.7	16,100	46.5	156.1	16,500				170
	180	40.7	146.0	14,400							180
	190	36.4	132.4	12,800							190

MANITOWOC ENGINEERING CO.

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



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

50 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
180	55	79.8	235.1	20,000*							55
	60	78.5	234.0	20,000*	80.5	232.8	20,000*				60
	65	77.2	232.7	20,000*	79.3	231.5	20,000*				65
	70	76.0	231.3	20,000*	78.0	230.1	20,000*	79.9	227.6	20,000*	70
	75	74.7	229.8	20,000*	76.7	228.6	20,000*	78.6	226.0	20,000*	75
	80	73.4	228.1	20,000*	75.4	226.9	20,000*	77.3	224.4	20,000*	80
	90	70.8	224.5	20,000*	72.8	223.3	20,000*	74.7	220.7	20,000*	90
	100	68.1	220.3	20,000*	70.1	219.1	20,000*	72.0	216.4	20,000*	100
	110	65.4	215.6	20,000*	67.4	214.3	20,000*	69.2	211.6	20,000*	110
	120	62.6	210.2	20,000*	64.6	208.9	20,000*	66.4	206.1	20,000*	120
	130	59.8	204.2	20,000*	61.7	202.9	20,000*	63.4	200.0	20,000*	130
	140	56.8	197.5	20,000*	58.7	196.1	20,000*	60.4	193.1	19,800*	140
	150	53.7	190.0	19,800	55.6	188.6	20,000*	57.3	185.5	19,100*	150
	160	50.5	181.6	17,500	52.4	180.1	18,000				160
	170	47.2	172.2	15,500	49.0	170.6	16,000				170
	180	43.6	161.6	13,800							180
	190	39.7	149.4	12,200							190
190	55	80.2	245.3	20,000*							55
	60	79.0	244.2	20,000*	80.9	243.0	20,000*				60
	65	77.8	243.0	20,000*	79.7	241.8	20,000*				65
	70	76.6	241.7	20,000*	78.5	240.5	20,000*	80.4	237.9	20,000*	70
	75	75.3	240.2	20,000*	77.3	239.0	20,000*	79.1	236.5	20,000*	75
	80	74.1	238.7	20,000*	76.0	237.5	20,000*	77.9	234.9	20,000*	80
	90	71.6	235.2	20,000*	73.5	234.0	20,000*	75.3	231.3	20,000*	90
	100	69.1	231.2	20,000*	71.0	229.9	20,000*	72.8	227.3	20,000*	100
	110	66.5	226.7	20,000*	68.4	225.4	20,000*	70.1	222.7	20,000*	110
	120	63.9	221.6	20,000*	65.7	220.3	20,000*	67.4	217.5	20,000*	120
	130	61.2	216.0	20,000*	63.0	214.6	20,000*	64.7	211.7	20,000*	130
	140	58.4	209.6	20,000*	60.2	208.2	20,000*	61.8	205.3	20,000*	140
	150	55.5	202.6	19,200	57.3	201.2	19,900	58.9	198.1	19,500*	150
	160	52.5	194.8	17,000	54.3	193.3	17,500				160
	170	49.4	186.0	15,000	51.1	184.5	15,500				170
	180	46.1	176.3	13,200	47.8	174.6	13,600				180
	190	42.6	165.3	11,600							190
	200	38.8	152.8	10,200							200
200	55	80.6	255.5	20,000*							55
	60	79.4	254.5	20,000*							60
	65	78.3	253.3	20,000*	80.1	252.1	20,000*				65
	70	77.1	252.0	20,000*	79.0	250.8	20,000*	80.8	248.2	20,000*	70
	75	75.9	250.7	20,000*	77.8	249.4	20,000*	79.6	246.8	20,000*	75
	80	74.8	249.2	20,000*	76.6	247.9	20,000*	78.4	245.3	20,000*	80
	90	72.4	245.8	20,000*	74.2	244.6	20,000*	76.0	241.9	20,000*	90
	100	70.0	242.0	20,000*	71.8	240.8	20,000*	73.5	238.1	20,000*	100
	110	67.5	237.7	20,000*	69.3	236.4	20,000*	71.0	233.7	20,000*	110
	120	65.0	232.9	20,000*	66.8	231.6	20,000*	68.4	228.8	20,000*	120
	130	62.4	227.5	20,000*	64.2	226.2	20,000*	65.8	223.3	20,000*	130
	140	59.8	221.5	20,000*	61.5	220.2	20,000*	63.1	217.2	20,000*	140
	150	57.1	214.9	18,700	58.8	213.5	19,300	60.4	210.4	19,800*	150
	160	54.3	207.6	16,400	56.0	206.1	17,000	57.5	202.9	17,500	160
	170	51.4	199.4	14,400	53.0	197.9	14,900				170
	180	48.3	190.4	12,600	50.0	188.7	13,100				180
	190	45.1	180.3	11,000	46.7	178.5	11,500				190
	200	41.7	168.9	9,600							200
	210	38.0	156.1	8,400							210

MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES - 146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

50 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
210	55	81.0	265.7	20,000*							55
	60	79.8	264.7	20,000*							60
	65	78.7	263.6	20,000*	80.5	262.4	20,000*				65
	70	77.6	262.4	20,000*	79.4	261.1	20,000*				70
	75	76.5	261.0	20,000*	78.3	259.8	20,000*	80.0	257.2	20,000*	75
	80	75.4	259.6	20,000*	77.1	258.4	20,000*	78.8	255.7	20,000*	80
	90	73.1	256.4	20,000*	74.8	255.1	20,000*	76.5	252.5	20,000*	90
	100	70.8	252.8	20,000*	72.5	251.5	20,000*	74.2	248.8	20,000*	100
	110	68.4	248.7	20,000*	70.1	247.4	20,000*	71.8	244.6	20,000*	110
	120	66.0	244.1	20,000*	67.7	242.7	20,000*	69.4	239.9	20,000*	120
	130	63.6	238.9	20,000*	65.3	237.6	20,000*	66.9	234.7	20,000*	130
	140	61.1	233.3	20,000*	62.8	231.9	20,000*	64.3	228.9	20,000*	140
	150	58.5	227.0	18,300	60.2	225.6	19,000	61.7	222.5	19,600	150
	160	55.9	220.1	16,000	57.5	218.6	16,600	59.0	215.5	17,200	160
	170	53.1	212.4	14,000	54.8	210.9	14,500				170
220	180	50.3	204.0	12,200	51.9	202.4	12,700				180
	190	47.3	194.6	10,600	48.9	192.9	11,100				190
	200	44.2	184.2	9,200							200
	210	40.8	172.5	8,000*							210
	220	37.2	159.3	6,600*							220
230	60	80.2	274.9	20,000*							60
	65	79.1	273.8	20,000*	80.9	272.6	20,000*				65
	70	78.1	272.7	20,000*	79.8	271.4	20,000*				70
	75	77.0	271.4	20,000*	78.7	270.1	20,000*	80.4	267.5	20,000*	75
	80	75.9	270.0	20,000*	77.6	268.8	20,000*	79.3	266.1	20,000*	80
	90	73.7	267.0	20,000*	75.4	265.7	20,000*	77.0	263.0	20,000*	90
	100	71.5	263.5	20,000*	73.2	262.2	20,000*	74.8	259.5	20,000*	100
	110	69.2	259.5	20,000*	70.9	258.2	20,000*	72.5	255.5	20,000*	110
	120	67.0	255.1	20,000*	68.6	253.8	20,000*	70.2	251.0	20,000*	120
	130	64.6	250.2	20,000*	66.3	248.9	20,000*	67.8	246.0	20,000*	130
	140	62.2	244.8	20,000*	63.9	243.4	20,000*	65.4	240.5	20,000*	140
	150	59.8	238.9	17,700	61.4	237.4	18,400	62.9	234.4	19,100	150
	160	57.3	232.3	15,400	58.9	230.8	16,100	60.3	227.7	16,700	160
	170	54.7	225.1	13,400	56.3	223.6	14,000	57.7	220.4	14,500	170
	180	52.0	217.1	11,600	53.6	215.6	12,200				180
	190	49.3	208.4	10,100	50.8	206.7	10,500				190
240	200	46.3	198.7	8,600	47.9	197.0	9,100				200
	210	43.3	188.0	7,300*							210
	220	40.0	176.0	5,800*							220
	230	36.5	162.4	4,600*							230
	60	80.6	285.1	20,000*							60
	65	79.5	284.1	20,000*							65
	70	78.5	282.9	20,000*	80.2	281.7	20,000*				70
	75	77.5	281.7	20,000*	79.1	280.5	20,000*	80.7	277.8	20,000*	75
	80	76.4	280.4	20,000*	78.1	279.1	20,000*	79.7	276.5	20,000*	80
	90	74.3	277.4	20,000*	75.9	276.2	20,000*	77.5	273.5	20,000*	90
250	100	72.2	274.1	20,000*	73.8	272.8	20,000*	75.4	270.1	20,000*	100
	110	70.0	270.3	20,000*	71.6	269.0	20,000*	73.2	266.2	20,000*	110
	120	67.8	266.1	20,000*	69.4	264.8	20,000*	70.9	262.0	20,000*	120
	130	65.6	261.4	20,000*	67.2	260.1	20,000*	68.7	257.2	20,000*	130
	140	63.3	256.3	19,800	64.9	254.9	20,000*	66.4	252.0	20,000*	140
	150	61.0	250.6	17,100	62.6	249.2	17,900	64.0	246.2	18,700	150
	160	58.6	244.3	14,900	60.2	242.9	15,600	61.6	239.8	16,200	160
	170	56.2	237.5	12,900	57.7	236.0	13,500	59.1	232.8	14,100	170
	180	53.6	230.0	11,100	55.2	228.4	11,700	56.5	225.2	12,200	180
	190	51.0	221.8	9,500	52.5	220.2	10,000				190
260	200	48.3	212.7	8,100*	49.8	211.0	8,600				200
	210	45.4	202.8	6,600*	46.9	201.0	7,100*				210
	220	42.4	191.7	5,100*							220
	230										230

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin 54220



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12'6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26'6" CRAWLERS EXTENDED

60 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
110	45	79.5	176.0	10,000*							45
	50	77.8	174.7	10,000*							50
	55	76.1	173.3	10,000*	79.4	172.3	10,000*				55
	60	74.4	171.7	10,000*	77.6	170.7	10,000*	80.9	168.4	10,000*	60
	65	72.6	169.9	10,000*	75.9	168.9	10,000*	79.1	166.6	10,000*	65
	70	70.8	168.0	10,000*	74.1	167.0	10,000*	77.3	164.6	10,000*	70
	75	69.1	165.9	10,000*	72.3	164.9	10,000*	75.5	162.4	10,000*	75
	80	67.2	163.6	10,000*	70.5	162.5	10,000*	73.6	160.1	10,000*	80
	90	63.5	158.4	10,000*	66.7	157.3	10,000*	69.8	154.8	10,000*	90
	100	59.7	152.3	10,000*	62.8	151.2	10,000*	65.9	148.5	10,000*	100
	110	55.6	145.2	10,000*	58.8	144.1	10,000*	61.7	141.3	10,000*	110
	120	51.4	137.0	10,000*	54.5	135.8	10,000*	57.3	132.8	10,000*	120
	130	46.8	127.5	10,000*	49.8	126.1	10,000*				130
	140	41.8	116.1	10,000*	44.8	114.6	10,000*				140
	150	36.2	102.4	10,000*							150
120	45	80.1	186.2	10,000*							45
	50	78.5	185.0	10,000*							50
	55	76.9	183.7	10,000*	80.0	182.7	10,000*				55
	60	75.2	182.2	10,000*	78.3	181.2	10,000*				60
	65	73.6	180.5	10,000*	76.7	179.5	10,000*	79.8	177.1	10,000*	65
	70	71.9	178.7	10,000*	75.0	177.7	10,000*	78.1	175.2	10,000*	70
	75	70.3	176.7	10,000*	73.3	175.7	10,000*	76.4	173.2	10,000*	75
	80	68.6	174.6	10,000*	71.6	173.5	10,000*	74.6	171.0	10,000*	80
	90	65.1	169.7	10,000*	68.1	168.6	10,000*	71.1	166.0	10,000*	90
	100	61.5	164.1	10,000*	64.5	163.0	10,000*	67.4	160.3	10,000*	100
	110	57.8	157.6	10,000*	60.8	156.4	10,000*	63.6	153.6	10,000*	110
	120	53.9	150.1	10,000*	56.8	148.8	10,000*	59.6	145.9	10,000*	120
	130	49.8	141.5	10,000*	52.7	140.1	10,000*	55.3	137.0	10,000*	130
	140	45.3	131.4	10,000*	48.2	130.0	10,000*				140
	150	40.5	119.6	10,000*							150
	160	35.1	105.3	10,000*							160
130	45	80.6	196.4	10,000*							45
	50	79.1	195.3	10,000*							50
	55	77.6	194.0	10,000*	80.5	193.0	10,000*				55
	60	76.0	192.6	10,000*	79.0	191.6	10,000*				60
	65	74.5	191.1	10,000*	77.4	190.0	10,000*	80.3	187.5	10,000*	65
	70	72.9	189.4	10,000*	75.8	188.3	10,000*	78.7	185.8	10,000*	70
	75	71.3	187.5	10,000*	74.3	186.4	10,000*	77.1	183.9	10,000*	75
	80	69.7	185.5	10,000*	72.6	184.4	10,000*	75.5	181.8	10,000*	80
	90	66.5	180.9	10,000*	69.4	179.8	10,000*	72.2	177.2	10,000*	90
	100	63.2	175.7	10,000*	66.0	174.5	10,000*	68.8	171.8	10,000*	100
	110	59.7	169.6	10,000*	62.5	168.4	10,000*	65.2	165.6	10,000*	110
	120	56.1	162.7	10,000*	58.9	161.5	10,000*	61.5	158.5	10,000*	120
	130	52.3	154.8	10,000*	55.1	153.5	10,000*	57.6	150.4	10,000*	130
	140	48.3	145.7	10,000*	51.1	144.3	10,000*				140
	150	44.0	135.2	10,000*	46.7	133.7	10,000*				150
	160	39.3	122.9	10,000*							160
140	50	79.6	205.6	10,000*	81.0	203.3	10,000*				50
	55	78.2	204.4	10,000*	79.5	201.9	10,000*				55
	60	76.7	203.0	10,000*	78.1	200.5	10,000*	80.8	197.9	10,000*	60
	65	75.3	201.6	10,000*	76.6	198.8	10,000*	79.3	196.3	10,000*	65
	70	73.8	199.9	10,000*	75.1	197.1	10,000*	77.8	194.5	10,000*	70
	75	72.3	198.2	10,000*	73.6	195.1	10,000*	76.3	192.5	10,000*	75
	80	70.8	196.3	10,000*	70.5	190.8	10,000*	73.1	188.2	10,000*	80
	90	67.7	192.0	10,000*	67.3	185.9	10,000*	69.9	183.1	10,000*	90
	100	64.6	187.1	10,000*	64.1	180.2	10,000*	66.6	177.3	10,000*	100
	110	61.4	181.4	10,000*	60.7	173.7	10,000*	63.2	170.7	10,000*	110
	120	58.0	175.0	10,000*	57.2	166.3	10,000*	59.6	163.2	10,000*	120
	130	54.5	167.7	10,000*	53.5	157.9	10,000*	55.9	154.7	10,000*	130
	140	50.9	159.4	10,000*	49.6	148.4	10,000*				140
	150	47.0	149.9	10,000*	45.4	137.3	10,000*				150
	160	42.8	138.9	10,000*							160
	170	38.3	126.2	10,000*							170

MANITOWOC ENGINEERING CO.

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



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12' 6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES - 146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26' 6" CRAWLERS EXTENDED

60 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
150	50	80.1	215.8	10,000*							50
	55	78.8	214.7	10,000*							55
	60	77.4	213.4	10,000*	80.0	212.3	10,000*				60
	65	76.0	212.0	10,000*	78.6	210.9	10,000*				65
	70	74.6	210.5	10,000*	77.2	209.3	10,000*	79.9	206.7	10,000*	70
	75	73.2	208.8	10,000*	75.8	207.6	10,000*	78.4	205.0	10,000*	75
	80	71.7	207.0	10,000*	74.4	205.8	10,000*	77.0	203.2	10,000*	80
	90	68.9	202.9	10,000*	71.5	201.8	10,000*	74.0	199.0	10,000*	90
	100	65.9	198.3	10,000*	68.5	197.1	10,000*	71.0	194.3	10,000*	100
	110	62.9	193.0	10,000*	65.4	191.7	10,000*	67.9	188.9	10,000*	110
	120	59.7	187.0	10,000*	62.3	185.7	10,000*	64.7	182.7	10,000*	120
	130	56.5	180.2	10,000*	59.0	178.8	10,000*	61.4	175.7	10,000*	130
	140	53.1	172.5	10,000*	55.6	171.1	10,000*	57.9	167.8	10,000*	140
	150	49.5	163.8	10,000*	52.0	162.3	10,000*				150
	160	45.8	153.9	10,000*	48.2	152.3	10,000*				160
	170	41.7	142.6	10,000*							170
	180	37.3	129.4	10,000*							180
160	50	80.6	226.0	10,000*							50
	55	79.3	224.9	10,000*							55
	60	78.0	223.7	10,000*	80.5	222.6	10,000*				60
	65	76.6	222.4	10,000*	79.2	221.2	10,000*				65
	70	75.3	220.9	10,000*	77.8	219.8	10,000*	80.3	217.1	10,000*	70
	75	74.0	219.3	10,000*	76.5	218.2	10,000*	79.0	215.5	10,000*	75
	80	72.6	217.6	10,000*	75.1	216.4	10,000*	77.6	213.7	10,000*	80
	90	69.9	213.8	10,000*	72.4	212.6	10,000*	74.8	209.8	10,000*	90
	100	67.1	209.4	10,000*	69.5	208.1	10,000*	71.9	205.3	10,000*	100
	110	64.2	204.4	10,000*	66.7	203.1	10,000*	69.0	200.2	10,000*	110
	120	61.2	198.7	10,000*	63.7	197.4	10,000*	66.0	194.4	10,000*	120
	130	58.2	192.3	10,000*	60.6	191.0	10,000*	62.9	187.9	10,000*	130
	140	55.1	185.2	10,000*	57.5	183.8	10,000*	59.7	180.6	10,000*	140
	150	51.8	177.1	10,000*	54.1	175.7	10,000*	56.3	172.3	10,000*	150
	160	48.3	168.1	10,000*	50.6	166.5	10,000*				160
	170	44.6	157.8	10,000*	46.9	156.2	10,000*				170
	180	40.7	146.1	10,000*							180
	190	36.4	132.5	10,000*							190
170	50	81.0	236.2	10,000*							50
	55	79.7	235.2	10,000*							55
	60	78.5	234.0	10,000*	80.9	232.8	10,000*				60
	65	77.2	232.7	10,000*	79.7	231.6	10,000*				65
	70	75.9	231.3	10,000*	78.4	230.2	10,000*	80.8	227.5	10,000*	70
	75	74.7	229.8	10,000*	77.1	228.6	10,000*	79.5	225.9	10,000*	75
	80	73.4	228.2	10,000*	75.8	227.0	10,000*	78.2	224.3	10,000*	80
	90	70.8	224.5	10,000*	73.2	223.3	10,000*	75.5	220.5	10,000*	90
	100	68.1	220.4	10,000*	70.5	219.1	10,000*	72.8	216.3	10,000*	100
	110	65.4	215.6	10,000*	67.8	214.3	10,000*	70.0	211.4	10,000*	110
	120	62.6	210.3	10,000*	65.0	209.0	10,000*	67.2	206.0	10,000*	120
	130	59.7	204.3	10,000*	62.1	202.9	10,000*	64.3	199.9	10,000*	130
	140	56.8	197.6	10,000*	59.1	196.2	10,000*	61.2	193.0	10,000*	140
	150	53.7	190.1	10,000*	56.0	188.6	10,000*	58.1	185.3	10,000*	150
	160	50.5	181.7	10,000*	52.8	180.2	10,000*				160
	170	47.2	172.3	10,000*	49.4	170.7	10,000*				170
	180	43.6	161.6	10,000*	45.8	159.9	10,000*				180
	190	39.7	149.5	10,000*							190
	200	35.5	135.5	10,000*							200

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin 54220



LIFTCRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12' 6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES-146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBOY COUNTERWEIGHT
26' 6" CRAWLERS EXTENDED

60 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
180	55	80.2	245.4	10,000*							55
	60	79.0	244.3	10,000*							60
	65	77.8	243.1	10,000*	80.1	241.9	10,000*				65
	70	76.5	241.7	10,000*	78.9	240.5	10,000*				70
	75	75.3	240.3	10,000*	77.6	239.1	10,000*	79.9	236.3	10,000*	75
	80	74.1	238.7	10,000*	76.4	237.5	10,000*	78.7	234.7	10,000*	80
	90	71.6	235.2	10,000*	73.9	234.0	10,000*	76.1	231.2	10,000*	90
	100	69.1	231.3	10,000*	71.3	230.0	10,000*	73.6	227.1	10,000*	100
	110	66.5	226.8	10,000*	68.8	225.5	10,000*	70.9	222.5	10,000*	110
	120	63.8	221.7	10,000*	66.1	220.4	10,000*	68.2	217.4	10,000*	120
	130	61.1	216.0	10,000*	63.4	214.7	10,000*	65.5	211.6	10,000*	130
	140	58.4	209.7	10,000*	60.6	208.3	10,000*	62.6	205.1	10,000*	140
	150	55.5	202.7	10,000*	57.7	201.2	10,000*	59.7	197.9	10,000*	150
	160	52.5	194.8	10,000*	54.7	193.3	10,000*	56.6	189.9	10,000*	160
	170	49.4	186.1	10,000*	51.5	184.5	10,000*				170
	180	46.1	176.4	10,000*	48.2	174.7	10,000*				180
190	55	80.6	255.6	10,000*							55
	60	79.4	254.5	10,000*							60
	65	78.3	253.4	10,000*	80.5	252.1	10,000*				65
	70	77.1	252.1	10,000*	79.3	250.9	10,000*				70
	75	75.9	250.7	10,000*	78.1	249.5	10,000*	80.3	246.7	10,000*	75
	80	74.7	249.2	10,000*	77.0	248.0	10,000*	79.1	245.2	10,000*	80
	90	72.4	245.9	10,000*	74.6	244.6	10,000*	76.7	241.8	10,000*	90
	100	69.9	242.1	10,000*	72.1	240.8	10,000*	74.3	237.9	10,000*	100
	110	67.5	237.8	10,000*	69.7	236.5	10,000*	71.8	233.5	10,000*	110
	120	65.0	233.0	10,000*	67.1	231.6	10,000*	69.2	228.6	10,000*	120
	130	62.4	227.6	10,000*	64.6	226.2	10,000*	66.6	223.1	10,000*	130
	140	59.8	221.6	10,000*	61.9	220.2	10,000*	63.9	217.0	10,000*	140
	150	57.1	215.0	10,000*	59.2	213.5	10,000*	61.1	210.3	10,000*	150
	160	54.3	207.6	10,000*	56.4	206.1	10,000*	58.3	202.7	10,000*	160
	170	51.3	199.5	10,000*	53.4	197.9	10,000*	55.3	194.4	10,000*	170
	180	48.3	190.4	10,000*	50.3	188.8	10,000*				180
	190	45.1	180.3	10,000*	47.1	178.6	10,000*				190
200	55	80.9	265.8	10,000*							55
	60	79.8	264.8	10,000*							60
	65	78.7	263.6	10,000*	80.9	262.4	10,000*				65
	70	77.6	262.4	10,000*	79.7	261.2	10,000*				70
	75	76.5	261.1	10,000*	78.6	259.8	10,000*	80.7	257.0	10,000*	75
	80	75.3	259.7	10,000*	77.5	258.4	10,000*	79.6	255.6	10,000*	80
	90	73.1	256.5	10,000*	75.2	255.2	10,000*	77.3	252.3	10,000*	90
	100	70.7	252.8	10,000*	72.9	251.5	10,000*	74.9	248.6	10,000*	100
	110	68.4	248.7	10,000*	70.5	247.4	10,000*	72.5	244.4	10,000*	110
	120	66.0	244.1	10,000*	68.1	242.8	10,000*	70.1	239.8	10,000*	120
	130	63.6	239.0	10,000*	65.6	237.6	10,000*	67.6	234.5	10,000*	130
	140	61.1	233.3	10,000*	63.1	231.9	10,000*	65.0	228.8	10,000*	140
	150	58.5	227.1	10,000*	60.5	225.6	10,000*	62.4	222.3	10,000*	150
	160	55.8	220.1	10,000*	57.9	218.6	10,000*	59.7	215.3	10,000*	160
	170	53.1	212.5	10,000*	55.1	210.9	10,000*	56.9	207.4	10,000*	170
	180	50.3	204.0	10,000*	52.2	202.4	10,000*				180
	190	47.3	194.7	10,000*	49.2	193.0	10,000*				190
	200	44.1	184.2	9,800	46.1	182.4	10,000*				200
	210	40.8	172.6	8,600							210
	220	37.2	159.4	7,400*							220

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin 54220



LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W SERIES 2

JIB NO. 123 WITH 12' 6" STRUT ON
BOOM NO. 22C WITH OPEN THROAT TOP
OFFSET 4-1/2 DEGREES - 146,400 LB. CRANE COUNTERWEIGHT
60,000 LB. CARBODY COUNTERWEIGHT
26' 6" CRAWLERS EXTENDED

60 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	0 DEGREE OFFSET			10 DEGREE OFFSET			20 DEGREE OFFSET			JIB OPER. RAD. FEET
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	
210	60	80.2	275.0	10,000*							60
	65	79.1	273.9	10,000*							65
	70	78.1	272.7	10,000*	80.1	271.5	10,000*				70
	75	77.0	271.4	10,000*	79.0	270.2	10,000*				75
	80	75.9	270.1	10,000*	77.9	268.8	10,000*	80.0	265.9	10,000*	80
	90	73.7	267.0	10,000*	75.7	265.7	10,000*	77.8	262.8	10,000*	90
	100	71.5	263.5	10,000*	73.5	262.2	10,000*	75.5	259.3	10,000*	100
	110	69.2	259.6	10,000*	71.3	258.3	10,000*	73.2	255.3	10,000*	110
	120	66.9	255.2	10,000*	69.0	253.8	10,000*	70.9	250.8	10,000*	120
	130	64.6	250.3	10,000*	66.6	248.9	10,000*	68.5	245.8	10,000*	130
	140	62.2	244.9	10,000*	64.2	243.5	10,000*	66.1	240.3	10,000*	140
	150	59.8	238.9	10,000*	61.8	237.5	10,000*	63.6	234.2	10,000*	150
	160	57.3	232.4	10,000*	59.2	230.9	10,000*	61.0	227.5	10,000*	160
	170	54.7	225.2	10,000*	56.6	223.6	10,000*	58.4	220.1	10,000*	170
	180	52.0	217.2	10,000*	53.9	215.6	10,000*	55.7	212.0	10,000*	180
	190	49.2	208.5	10,000*	51.1	206.8	10,000*				190
	200	46.3	198.8	9,400	48.2	197.0	9,900				200
	210	43.3	188.1	8,100	45.1	186.2	8,600				210
220	60	80.5	285.2	10,000*							60
	65	79.5	284.1	10,000*							65
	70	78.5	283.0	10,000*	80.5	281.7	10,000*				70
	75	77.4	281.8	10,000*	79.4	280.5	10,000*				75
	80	76.4	280.4	10,000*	78.4	279.2	10,000*	80.4	276.3	10,000*	80
	90	74.3	277.5	10,000*	76.3	276.2	10,000*	78.2	273.3	10,000*	90
	100	72.2	274.2	10,000*	74.1	272.8	10,000*	76.0	269.9	10,000*	100
	110	70.0	270.4	10,000*	72.0	269.0	10,000*	73.9	266.0	10,000*	110
	120	67.8	266.2	10,000*	69.8	264.8	10,000*	71.6	261.8	10,000*	120
	130	65.6	261.5	10,000*	67.5	260.1	10,000*	69.4	257.0	10,000*	130
	140	63.3	256.3	10,000*	65.2	254.9	10,000*	67.0	251.7	10,000*	140
	150	61.0	250.6	10,000*	62.9	249.2	10,000*	64.7	245.9	10,000*	150
	160	58.6	244.4	10,000*	60.5	242.9	10,000*	62.2	239.6	10,000*	160
	170	56.1	237.6	10,000*	58.0	236.0	10,000*	59.7	232.6	10,000*	170
	180	53.6	230.1	10,000*	55.5	228.5	10,000*	57.2	224.9	10,000*	180
	190	51.0	221.8	10,000*	52.8	220.2	10,000*				190
	200	48.3	212.8	8,800	50.1	211.1	9,400				200
	210	45.4	202.8	7,500*	47.2	201.0	8,000				210
	220	42.4	191.8	6,100*							220
	230	39.2	179.5	4,800*							230
230	60	80.9	295.3	10,000*							60
	65	79.9	294.3	10,000*							65
	70	78.9	293.3	10,000*	80.8	292.0	10,000*				70
	75	77.9	292.1	10,000*	79.8	290.8	10,000*				75
	80	76.9	290.8	10,000*	78.8	289.5	10,000*	80.7	286.6	10,000*	80
	90	74.8	288.0	10,000*	76.8	286.6	10,000*	78.6	283.7	10,000*	90
	100	72.8	284.7	10,000*	74.7	283.4	10,000*	76.6	280.4	10,000*	100
	110	70.7	281.1	10,000*	72.6	279.8	10,000*	74.4	276.7	10,000*	110
	120	68.6	277.1	10,000*	70.5	275.7	10,000*	72.3	272.6	10,000*	120
	130	66.5	272.6	10,000*	68.3	271.2	10,000*	70.1	268.1	10,000*	130
	140	64.3	267.6	10,000*	66.2	266.2	10,000*	67.9	263.0	10,000*	140
	150	62.1	262.2	10,000*	63.9	260.8	10,000*	65.7	257.5	10,000*	150
	160	59.8	256.3	10,000*	61.6	254.8	10,000*	63.3	251.4	10,000*	160
	170	57.5	249.7	10,000*	59.3	248.2	10,000*	61.0	244.8	10,000*	170
	180	55.1	242.6	10,000*	56.9	241.1	10,000*	58.5	237.5	10,000*	180
	190	52.6	234.9	9,700	54.4	233.2	10,000*	56.0	229.6	10,000*	190
	200	50.0	226.4	8,300	51.8	224.7	8,900				200
	210	47.4	217.0	6,800*	49.1	215.3	7,500*				210
	220	44.6	206.8	5,400*	46.3	204.9	6,000*				220
	230	41.6	195.5	4,100*							230