

MANITOWOC 400W - 24° CRAWLERS EXTENDED

LIFTCRANE CAPACITIES - 104,400# CWT.

BGCM #17 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - 2 DEGREE MACHINE LIST

RAD. IN. FL.	CAPACITIES IN THOUSANDS OF LBS.															RAD. IN. FL.
	BOOM LENGTH - FT.															
	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
16	230.6*	206.3*														16
17	227.5*	203.6*														17
18	224.6*	201.0*	182.0*													18
19	216.7*	198.5*	179.9*													19
20	203.0	196.1*	177.3*	161.4*												20
22	176.1	171.4	167.2*	157.3*	143.7*											22
24	155.3	151.5	148.1	144.8*	140.8*	129.8*										24
26	138.8	135.6	132.7	130.0	127.2*	124.6*	117.4*	108.5*								26
28	123.4	122.6	120.2	117.8	115.2*	112.6*	110.9*	106.7*	98.6*							28
30	114.2	111.7	109.6	107.6	105.4	103.5	101.6	99.6	97.0*	89.5*						30
32	104.8	102.6	100.7	99.0	97.0	95.0	93.0	91.8	90.1	87.9*	82.6*					32
34	96.8	94.8	93.0	91.5	89.7	88.2	86.6	85.0	83.5	82.0	80.0	75.9*				34
36	89.9	88.0	86.6	85.0	83.4	82.0	80.0	79.0	77.7	76.0	74.4	73.6	66.3*			36
38	83.8	82.2	80.7	79.2	77.8	76.5	75.2	73.8	72.6	71.3	70.0	68.8	66.3*			38
40	78.0	76.8	75.6	74.4	72.9	71.7	70.5	69.2	68.0	66.6	65.4	64.2	62.9	57.7*		40
45	67.0	65.9	65.0	64.0	62.8	61.7	60.7	59.6	58.6	57.4	56.2	55.0	53.8	52.6	50.1*	45
50	56.0	55.1	54.4	53.6	52.6	51.7	50.8	49.9	49.0	48.0	47.0	46.0	44.9	43.8	42.7	40
55	47.4	46.4	45.8	45.0	44.1	43.4	42.7	41.9	41.0	40.0	39.0	38.0	36.9	35.8	34.7	45
60		41.6	40.7	40.0	39.1	38.4	37.7	36.9	36.0	35.0	34.0	33.0	31.9	30.8	29.7	45
65		38.0	37.1	36.4	35.6	34.8	34.1	33.3	32.4	31.4	30.4	29.4	28.3	27.2	26.1	45
70			34.4	33.6	32.8	32.1	31.3	30.5	29.6	28.6	27.6	26.6	25.5	24.4	23.3	45
75			31.4	30.6	29.8	29.1	28.3	27.5	26.6	25.6	24.6	23.6	22.5	21.4	20.3	45
80				28.0	27.2	26.4	25.7	24.9	24.0	23.0	22.0	21.0	20.0	18.9	17.8	45
85				26.0	25.2	24.4	23.7	22.9	22.0	21.0	20.0	19.0	18.0	16.9	15.8	45
90				24.0	23.2	22.4	21.7	20.9	20.0	19.0	18.0	17.0	16.0	14.9	13.8	45
95				22.0	21.2	20.4	19.7	18.9	18.0	17.0	16.0	15.0	14.0	12.9	11.8	45
100					22.0	21.2	20.4	19.7	18.9	18.0	17.0	16.0	15.0	13.9	12.8	45
105						21.9	21.1	20.3	19.5	18.6	17.6	16.6	15.6	14.5	13.4	100
110						19.8	19.0	18.2	17.4	16.5	15.5	14.5	13.5	12.4	11.3	100
115							18.0	17.2	16.4	15.5	14.5	13.5	12.5	11.4	10.3	100
120							16.3	15.5	14.7	13.8	12.8	11.8	10.8	9.7	8.6	100
125								14.9	14.1	13.2	12.2	11.2	10.2	9.1	8.0	100
130								14.0	13.2	12.3	11.3	10.3	9.3	8.2	7.1	100
135								13.0	12.2	11.3	10.3	9.3	8.3	7.2	6.1	100
140								12.0	11.2	10.3	9.3	8.3	7.3	6.2	5.1	100
145								11.0	10.2	9.3	8.3	7.3	6.3	5.2	4.1	100
150								10.0	9.2	8.3	7.3	6.3	5.3	4.2	3.1	100
155								9.0	8.2	7.3	6.3	5.3	4.3	3.2	2.1	100
160								8.0	7.2	6.3	5.3	4.3	3.3	2.2	1.1	100
165								7.0	6.2	5.3	4.3	3.3	2.3	1.2	0.1	100
170								6.0	5.2	4.3	3.3	2.3	1.3	0.2	0.1	100
175								5.0	4.2	3.3	2.3	1.3	0.3	0.2	0.1	100

CAPACITIES ARE FOR A CRANER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

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

REFER TO RIGGING #48227, LOAD LINE SPECIFICATION CHART #5308 AND RANGE CHART #4796. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION AT BARGE DECK TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK.

MACHINE EQUIPPED WITH 24° EXTENSIBLE CRAWLERS, 48 IN. TREADS, 15° RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, TWO 2 IN. BOOM PENDANTS, 1ST CWT. = 40,100#, 2ND CWT. = 35,800#, 3RD CWT. = 28,500#.

DJK
04/28/77, Rev. 8/1/78
DRWG. #6908-B



MANITOWOC ENGINEERING CO.
MANITOWOC, WISCONSIN

MANITOWOC 460GH - 24' CRAWLERS EXTENDED

LIFT CRANE CAPACITIES - 104,400# CWT.

BOOM #17 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - 3 DEGREE MACHINE LIST

RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.															RAD. IN FT.	
	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
14	201.0*	178.4*															16
15	196.5*	174.4*															17
16	183.7	172.4*	158.6*														18
17	161.0	158.4*	150.3*														19
18	143.2	152.4*	144.1*														20
19	128.6	147.4*	140.1*														21
20	117.7	142.4*	137.0*														22
21	107.1	137.4*	134.0*														23
22	99.8	132.4*	131.0*	137.0*													24
23	91.7	127.4*	128.0*	137.0*	137.0*												25
24	84.4	122.4*	125.0*	137.0*	137.0*	106.5*											26
25	77.0	117.4*	122.0*	137.0*	137.0*	101.5*	95.5*										27
26	70.0	112.4*	119.0*	137.0*	137.0*	96.5*	90.5*	80.4									28
27	66.0	107.4*	114.0*	137.0*	137.0*	91.5*	85.5*	76.4	75.0*								29
28		102.4*	110.0*	137.0*	137.0*	86.5*	80.5*	71.4	70.0*	75.0*							30
29		97.4*	106.0*	137.0*	137.0*	81.5*	75.5*	67.4	66.0*	75.0*	75.0*						31
30		92.4*	101.0*	137.0*	137.0*	76.5*	70.5*	62.4	61.0*	75.0*	75.0*						32
31		87.4*	96.0*	137.0*	137.0*	71.5*	65.5*	57.4	56.0*	75.0*	75.0*						33
32		82.4*	91.0*	137.0*	137.0*	66.5*	60.5*	52.4	51.0*	75.0*	75.0*						34
33		77.4*	86.0*	137.0*	137.0*	61.5*	55.5*	47.4	46.0*	75.0*	75.0*						35
34		72.4*	81.0*	137.0*	137.0*	56.5*	50.5*	42.4	41.0*	75.0*	75.0*						36
35		67.4*	76.0*	137.0*	137.0*	51.5*	45.5*	37.4	36.0*	75.0*	75.0*						37
36		62.4*	71.0*	137.0*	137.0*	46.5*	40.5*	32.4	31.0*	75.0*	75.0*						38
37		57.4*	66.0*	137.0*	137.0*	41.5*	35.5*	27.4	26.0*	75.0*	75.0*						39
38		52.4*	61.0*	137.0*	137.0*	36.5*	30.5*	22.4	21.0*	75.0*	75.0*						40
39		47.4*	56.0*	137.0*	137.0*	31.5*	25.5*	17.4	16.0*	75.0*	75.0*						41
40		42.4*	51.0*	137.0*	137.0*	26.5*	20.5*	12.4	11.0*	75.0*	75.0*						42
41		37.4*	46.0*	137.0*	137.0*	21.5*	15.5*	7.4	6.0*	75.0*	75.0*						43
42		32.4*	41.0*	137.0*	137.0*	16.5*	10.5*	2.4	1.0*	75.0*	75.0*						44
43		27.4*	36.0*	137.0*	137.0*	11.5*	5.5*			75.0*	75.0*						45
44		22.4*	31.0*	137.0*	137.0*	6.5*	0.5*			75.0*	75.0*						46
45		17.4*	26.0*	137.0*	137.0*	1.5*				75.0*	75.0*						47
46		12.4*	21.0*	137.0*	137.0*					75.0*	75.0*						48
47		7.4*	16.0*	137.0*	137.0*					75.0*	75.0*						49
48			11.0*	137.0*	137.0*					75.0*	75.0*						50

CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

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REFER TO RIGGING #48227, LOAD LINE SPECIFICATION CHART #5308 AND RANGE CHART #4796. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION AT BARGE DECK TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK.

MACHINE EQUIPPED WITH 24' EXTENDIBLE CRAWLERS, 48 IN. TREADS, 15' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, TWO 2 IN. BOOM PENDANTS, 1ST CWT. = 40,100#, 2ND CWT. = 35,800#, 3RD CWT. = 25,500#.

MANITOWOC 4000W - 24° CRAWLERS EXTENDED

LIFT CRANE CAPACITIES - 104,400# CWT.

BOOK #22 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - 0 DEGREE MACHINE LIST

RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.														RAD. IN FT.	
	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
17	300.0*	294.0*	267.1*													17
18	285.0*	281.6*	262.0*													18
19	267.3*	266.5*	256.0*													19
20	249.9*	249.1*	249.3*	243.0*												20
22	212.5*	212.2*	211.3*	211.9*												22
24	183.3	183.0	182.6	182.7	186.8*											24
26	160.9	160.5	160.2	159.7	158.9	181.5*										26
28	143.2	142.8	142.4	141.9	141.5	158.8*										28
30	128.8	128.4	128.0	127.6	127.2	141.1	181.4									30
32	116.9	116.5	116.1	115.7	115.3	126.6	157.0*	157.0*								32
34	104.9	104.5	104.1	103.7	103.3	114.6	126.6	126.6	140.5	140.1	139.7					34
36	98.4	98.0	97.6	97.2	96.8	104.1	114.1	113.6	104.1	103.6	103.1					36
38	91.0	90.5	90.1	89.7	89.3	96.0	95.5	95.0	104.0	103.5	103.0					38
40	84.6	84.1	83.7	83.3	82.9	88.6	88.1	87.6	94.9	94.4	93.9					40
42	78.7	78.2	77.8	77.4	77.0	82.1	81.6	81.1	87.0	86.5	86.0	112.5				42
44	71.7	71.2	70.7	70.3	69.9	76.6	76.1	75.6	81.0	80.5	80.0	102.1	112.1			44
46	64.7	64.2	63.7	63.3	62.9	70.1	69.6	69.1	74.9	74.4	73.9	94.2	102.6	112.1		46
48	57.7	57.2	56.7	56.3	55.9	63.3	62.8	62.3	68.4	67.9	67.4	87.0	94.2	102.6	112.1	48
50	50.7	50.2	49.7	49.3	48.9	56.6	56.1	55.6	61.0	60.5	60.0	80.5	87.0	94.2	102.6	50
52	43.7	43.2	42.7	42.3	41.9	49.8	49.3	48.8	54.9	54.4	53.9	74.4	80.5	87.0	94.2	52
54	36.7	36.2	35.7	35.3	34.9	43.0	42.5	42.0	48.1	47.6	47.1	67.9	74.4	80.5	87.0	54
56		31.5	31.0	30.6	30.2	36.6	36.1	35.6	41.2	40.7	40.2	60.0	67.9	74.4	80.5	56
58			28.3	27.8	27.4	33.2	32.7	32.2	38.3	37.8	37.3	53.9	60.0	67.9	74.4	58
60			25.9	25.4	25.0	29.9	29.4	28.9	35.0	34.5	34.0	47.1	53.9	60.0	67.9	60
62				23.1	22.6	27.7	27.2	26.7	31.1	30.6	30.1	40.2	47.1	53.9	60.0	62
64				21.2	20.7	25.8	25.3	24.8	27.3	26.8	26.3	34.0	40.2	47.1	53.9	64
66					19.1	24.2	23.7	23.2	25.7	25.2	24.7	28.9	34.0	40.2	47.1	66
68						18.0	17.5	17.0	22.8	22.3	21.8	26.3	31.1	37.3	44.7	68
70						15.6	15.1	14.6	20.0	19.5	19.0	23.2	28.9	34.0	40.2	70
72							14.2	13.7	18.9	18.4	17.9	21.8	26.3	31.1	37.3	72
74							12.8	12.3	16.6	16.1	15.6	20.0	23.2	28.9	34.0	74
76							11.4	10.9	15.1	14.6	14.1	18.9	21.8	26.3	31.1	76
78							10.0	9.5	13.2	12.7	12.2	17.5	20.0	23.2	28.9	78
80							8.6	8.1	11.9	11.4	10.9	16.1	18.9	21.8	26.3	80
82							7.2	6.7	10.5	10.0	9.5	14.7	16.6	18.9	21.8	82
84							5.8	5.3	9.1	8.6	8.1	13.3	15.1	17.5	20.0	84
86							4.4	3.9	7.7	7.2	6.7	11.9	13.3	15.1	17.5	86
88							3.0	2.5	6.3	5.8	5.3	10.5	11.9	13.3	15.1	88
90							1.6	1.1	4.9	4.4	3.9	9.1	10.5	11.9	13.3	90
92									3.5	3.0	2.5	7.7	8.6	9.5	10.5	92
94									2.1	1.6	1.1	6.3	7.2	8.1	9.1	94
96									0.7	0.2		4.9	5.8	6.7	7.7	96
98												3.5	4.4	5.3	6.3	98
100												2.1	3.0	3.9	4.9	100
102												0.7	1.6	2.5	3.5	102
104													0.2	1.1	2.1	104
106														0.7	1.6	106
108															0.2	108
110																110
112																112
114																114
116																116
118																118
120																120
122																122
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162																162
164																164
165																165

CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES BENEATH BOOM POINT SHEAVES, ETC. IS CONSIDERED PART OF THE MAIN BOOM LOAD. DEDUCT 1,200# FROM ABOVE CAPACITIES WHEN SINGLE SHEAVE UPPER BOOM POINT IS ATTACHED AND 1,500# WHEN TWO SHEAVE UPPER BOOM POINT IS ATTACHED. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

REFER TO RIGGING #48168, LOAD LINE SPECIFICATION CHART #5320 AND RANGE CHART #5359. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION AT BARGE DECK TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK.

MACHINE EQUIPPED WITH 24° EXTENDIBLE CRAWLERS, 48 IN. TREADS, 15' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8 IN. BOOM PENDANTS, 1ST CWT. = 40,100#, 2ND CWT. = 35,800#, 3RD CWT. = 28,500#.

DJK
04/27/77, Rev. 8/1/78
DRWG. #6909-A

MANITOWOC ENGINEERING CO.
MANITOWOC, WISCONSIN

MANITOWOC 4000W - 24' CRAWLERS EXTENDED
 LIFT CRANE CAPACITIES - 104,500# CHT.

BOOM #22 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - 2 DEGREE MACHINE LIST

RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.													RAD. IN FT.			
	70	80	90	100	110	120	130	140	150	160	170	180	190		200		
17	230.8*																
18	218.0*																
19	206.3*																
20	196.0																
21	170.0																
22	150.0																
23	134.0																
24	110.0																
25	101.0	109.1#															
26	93.4	108.1#	182.8#														
27	86.6	107.1#	161.7#														
28	80.7	106.1#	143.3#	157.7													
29	75.4	105.1#	128.4#	139.7	136.7												
30	70.7	104.1#	116.2#	125.9	122.8	120.1											
31	66.6	103.1#	105.9#	113.6	111.3	108.9	107.0										
32	63.0	102.1#	97.2#	101.6	101.3	99.9	97.9	95.9									
33	59.9	101.1#	89.9#	95.2	94.4	91.5	88.2	85.2	86.5								
34	57.4	100.1#	83.3#	87.9	86.2	84.5	81.2	77.7	80.0	78.4							
35	55.4	99.1#	77.7#	81.5	79.7	78.4	75.7	71.3	74.3	72.8							
36	53.7	98.1#	72.6#	75.9	74.6	73.4	70.0	66.6	69.3	67.9	71.6						
37	52.1	97.1#	68.0#	71.7	70.4	68.4	66.6	63.0	65.3	63.9	66.6	65.5					
38	50.6	96.1#	64.0#	68.2	66.9	64.6	62.1	58.5	60.8	59.4	62.1	60.9	60.0				
39	49.1	95.1#	60.0#	64.7	63.4	60.8	58.1	54.4	56.7	55.3	58.0	56.8	55.5	60.0			
40	47.7	94.1#	56.4#	61.4	60.1	57.2	54.4	50.6	52.9	51.5	54.2	53.0	51.7	55.5	55.0		
41	46.4	93.1#	53.1#	58.1	56.8	53.6	50.7	46.8	49.1	47.7	50.4	49.2	47.9	51.7	51.0		
42	45.1	92.1#	50.0#	55.0	53.7	50.3	47.4	43.4	45.7	44.3	47.0	45.8	44.5	48.3	47.5		
43	43.9	91.1#	47.0#	51.9	50.0	46.4	43.5	39.4	41.7	40.3	43.0	41.8	40.5	44.3	43.5		
44	42.7	90.1#	44.1#	48.9	46.6	42.8	39.9	35.7	38.0	36.6	39.3	38.1	36.8	40.6	39.8		
45	41.6	89.1#	41.4#	45.9	43.4	39.4	36.4	32.2	34.5	33.1	35.8	34.6	33.3	37.1	36.3		
46	40.5	88.1#	38.9#	42.9	40.3	35.6	32.4	28.1	30.4	29.0	31.7	30.5	29.2	33.0	32.2		
47	39.4	87.1#	36.4#	39.9	37.2	32.4	29.4	25.0	27.3	25.9	28.6	27.4	26.1	29.9	29.1		
48	38.4	86.1#	34.0#	36.9	34.6	29.3	26.6	22.6	24.9	23.5	26.2	25.0	23.7	27.5	26.7		
49	37.4	85.1#	31.7#	33.9	31.9	26.2	23.8	19.9	22.2	20.8	23.5	22.3	21.0	24.8	24.0		
50	36.4	84.1#	29.5#	30.9	29.3	23.6	21.1	17.5	19.8	18.4	21.1	19.9	18.6	22.4	21.6		
51	35.4	83.1#	27.4#	27.9	26.6	21.4	18.4	15.1	17.4	16.0	18.7	17.5	16.2	20.0	19.2		
52	34.4	82.1#	25.4#	24.9	23.6	18.8	16.3	12.9	15.0	13.6	16.3	15.1	13.8	17.6	16.8		
53	33.4	81.1#	23.4#	21.9	20.6	16.3	13.5	10.7	12.6	11.2	13.9	12.7	11.4	15.2	14.4		
54	32.4	80.1#	21.4#	18.9	17.5	13.8	10.7	8.4	10.3	8.9	11.1	9.9	8.6	12.8	12.0		
55	31.4	79.1#	19.4#	15.9	14.4	11.1	8.4	6.1	7.9	6.5	8.7	7.5	6.2	10.4	9.6		
56	30.4	78.1#	17.4#	12.9	11.4	8.4	6.1	3.8	5.5	4.1	5.9	4.7	3.4	7.9	7.1		
57	29.4	77.1#	15.4#	9.9	8.4	5.4	3.1	1.5	2.9	1.3	2.7	1.5	0.2	5.4	4.6		
58	28.4	76.1#	13.4#	6.9	5.4	3.4	1.5	0.0	0.9	0.3	1.1	0.0	-0.3	2.9	2.1		
59	27.4	75.1#	11.4#	3.9	2.4	1.4	0.0	-0.3	0.3	-0.3	0.0	-0.3	-0.3	0.4	0.0		
60	26.4	74.1#	9.4#	0.9	0.4	0.4	0.0	-0.3	0.0	-0.3	0.0	-0.3	-0.3	0.0	0.0		
61	25.4	73.1#	7.4#	-2.1	-0.6	-0.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
62	24.4	72.1#	5.4#	-4.1	-1.6	-1.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
63	23.4	71.1#	3.4#	-6.1	-2.6	-2.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
64	22.4	70.1#	1.4#	-8.1	-3.6	-3.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
65	21.4	69.1#	-0.6#	-10.1	-4.6	-4.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
66	20.4	68.1#	-2.6#	-12.1	-5.6	-5.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
67	19.4	67.1#	-4.6#	-14.1	-6.6	-6.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
68	18.4	66.1#	-6.6#	-16.1	-7.6	-7.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
69	17.4	65.1#	-8.6#	-18.1	-8.6	-8.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
70	16.4	64.1#	-10.6#	-20.1	-9.6	-9.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
71	15.4	63.1#	-12.6#	-22.1	-10.6	-10.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
72	14.4	62.1#	-14.6#	-24.1	-11.6	-11.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
73	13.4	61.1#	-16.6#	-26.1	-12.6	-12.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
74	12.4	60.1#	-18.6#	-28.1	-13.6	-13.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
75	11.4	59.1#	-20.6#	-30.1	-14.6	-14.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
76	10.4	58.1#	-22.6#	-32.1	-15.6	-15.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
77	9.4	57.1#	-24.6#	-34.1	-16.6	-16.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
78	8.4	56.1#	-26.6#	-36.1	-17.6	-17.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
79	7.4	55.1#	-28.6#	-38.1	-18.6	-18.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
80	6.4	54.1#	-30.6#	-40.1	-19.6	-19.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
81	5.4	53.1#	-32.6#	-42.1	-20.6	-20.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
82	4.4	52.1#	-34.6#	-44.1	-21.6	-21.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
83	3.4	51.1#	-36.6#	-46.1	-22.6	-22.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
84	2.4	50.1#	-38.6#	-48.1	-23.6	-23.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
85	1.4	49.1#	-40.6#	-50.1	-24.6	-24.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
86	0.4	48.1#	-42.6#	-52.1	-25.6	-25.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
87	0.4	47.1#	-44.6#	-54.1	-26.6	-26.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
88	0.4	46.1#	-46.6#	-56.1	-27.6	-27.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
89	0.4	45.1#	-48.6#	-58.1	-28.6	-28.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
90	0.4	44.1#	-50.6#	-60.1	-29.6	-29.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
91	0.4	43.1#	-52.6#	-62.1	-30.6	-30.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
92	0.4	42.1#	-54.6#	-64.1	-31.6	-31.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
93	0.4	41.1#	-56.6#	-66.1	-32.6	-32.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
94	0.4	40.1#	-58.6#	-68.1	-33.6	-33.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
95	0.4	39.1#	-60.6#	-70.1	-34.6	-34.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
96	0.4	38.1#	-62.6#	-72.1	-35.6	-35.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
97	0.4	37.1#	-64.6#	-74.1	-36.6	-36.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
98	0.4	36.1#	-66.6#	-76.1	-37.6	-37.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
99	0.4	35.1#	-68.6#	-78.1	-38.6	-38.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
100	0.4	34.1#	-70.6#	-80.1	-39.6	-39.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
101	0.4	33.1#	-72.6#	-82.1	-40.6	-40.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
102	0.4	32.1#	-74.6#	-84.1	-41.6	-41.6	0.0	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3		
103	0.4	31.1#	-76.6#	-86.1	-42.6												

MANITOWOC 4000W - 24° CRAWLERS EXTENDED

LIFT CRANE CAPACITIES - 104,400# CWT.

BOOM #22 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - 3 DEGREE MACHINE LIST

RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.														RAD. IN FT.
	BOOM LENGTH - FT.														
	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
18	197.9														18
19	184.6														19
20	175.2														20
22	153.9	168.0*													22
24	137.1	148.5													24
26	123.4	132.6	143.5												26
28	112.1	119.8	116.0												28
30	102.6	108.8	105.7	124.3											30
32	94.7	99.7	97.0	94.2	109.2										32
34	88.1	91.5	89.4	86.9	92.8	96.9									34
36	82.7	85.1	82.9	80.6	84.7	87.1	87.1								36
38	78.4	80.1	77.2	75.1	78.6	82.4	80.6	78.4							38
40	74.1	76.6	72.2	70.0	73.2	76.5	74.9	72.9	71.1						40
42	70.0	72.4	67.7	65.5	68.5	71.3	69.9	67.7	66.6	64.4					42
44	66.1	68.5	63.4	61.2	64.2	66.8	65.4	63.3	62.2	60.0	59.8				44
46	62.4	64.8	59.4	57.1	60.0	62.6	61.4	59.3	58.2	56.0	54.9	54.7			46
48	58.9	61.3	55.8	53.5	56.4	59.0	57.9	55.8	54.7	52.5	51.4	50.3	50.2		48
50	55.6	58.0	52.3	50.0	52.9	55.5	54.4	52.3	51.2	49.0	47.9	46.8	46.7		50
52	52.4	54.8	48.9	46.6	49.5	52.1	51.0	48.9	47.8	45.6	44.5	43.4	43.3		52
54	49.3	51.7	45.7	43.4	46.3	48.9	47.8	45.7	44.6	42.4	41.3	40.2	40.1		54
56	46.3	48.7	42.6	40.3	43.2	45.8	44.7	42.6	41.5	39.3	38.2	37.1	37.0		56
58	43.4	45.8	39.6	37.3	40.2	42.8	41.7	39.6	38.5	36.3	35.2	34.1	34.0		58
60	40.6	43.0	36.8	34.5	37.4	40.0	38.9	36.8	35.7	33.5	32.4	31.3	31.2		60
62	37.9	40.3	34.1	31.8	34.7	37.3	36.2	34.1	33.0	30.8	29.7	28.6	28.5		62
64	35.3	37.7	31.5	29.2	32.1	34.7	33.6	31.5	30.4	28.2	27.1	26.0	25.9		64
66	32.8	35.2	29.0	26.7	29.6	32.2	31.1	29.0	27.9	25.7	24.6	23.5	23.4		66
68	30.4	32.8	26.2	23.9	26.8	29.4	28.3	26.2	25.1	22.9	21.8	20.7	20.6		68
70	28.1	30.5	23.9	21.6	24.5	27.1	26.0	23.9	22.8	20.6	19.5	18.4	18.3		70
72	25.9	28.3	22.1	19.8	22.7	25.3	24.2	22.1	21.0	18.8	17.7	16.6	16.5		72
74	23.8	26.2	19.6	17.3	20.2	22.8	21.7	19.6	18.5	16.3	15.2	14.1	14.0		74
76	21.8	23.7	17.2	14.9	17.8	20.4	19.3	17.2	16.1	13.9	12.8	11.7	11.6		76
78	19.9	21.8	14.8	12.5	15.4	18.0	16.9	14.8	13.7	11.5	10.4	9.3	9.2		78
80	18.1	19.9	12.9	10.6	13.5	16.1	15.0	12.9	11.8	9.6	8.5	7.4	7.3		80
82	16.4	18.2	11.2	8.9	11.8	14.4	13.3	11.2	10.1	7.9	6.8	5.7	5.6		82
84	14.8	16.6	9.6	7.3	10.2	12.8	11.7	9.6	8.5	6.3	5.2	4.1	4.0		84
86	13.3	15.1	8.1	5.8	8.7	11.3	10.2	8.1	7.0	4.8	3.7	2.6	2.5		86
88	11.9	13.7	6.7	4.4	7.3	9.9	8.8	6.7	5.6	3.4	2.3	1.2	1.1		88
90	10.6	12.4	5.4	3.1	6.0	8.6	7.5	5.4	4.3	2.1	1.0	0.0	0.0		90
92	9.4	11.2	4.2	1.9	4.8	7.4	6.3	4.2	3.1	0.9	0.0	0.0	0.0		92
94	8.3	10.1	3.1	0.8	3.7	6.3	5.2	3.1	2.0	0.0	0.0	0.0	0.0		94
96	7.3	9.0	2.1	0.0	2.6	5.2	4.1	2.0	0.9	0.0	0.0	0.0	0.0		96
98	6.4	7.9	1.1	0.0	1.5	4.1	3.0	0.9	0.0	0.0	0.0	0.0	0.0		98
100	5.6	6.8	0.0	0.0	0.0	3.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0		100
105															105
110															110
115															115
120															120
125															125
130															130
135															135
140															140
145															145
150															150
155															155

CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES BENEATH BOOM POINT SHEAVES, ETC. IS CONSIDERED PART OF THE MAIN BOOM LOAD. DEDUCT 1,200# FROM ABOVE CAPACITIES WHEN SINGLE SHEAVE UPPER BOOM POINT IS ATTACHED AND 1,500# WHEN TWO SHEAVE UPPER CAPACITY IS SHOWN. OPERATION IS NOT INTENDED OR APPROVED.

REFER TO RIGGING #48168, LOAD LINE SPECIFICATION CHART #5320 AND RANGE CHART #5359. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION AT BARGE DECK TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK.

MACHINE EQUIPPED WITH 24° EXTENDIBLE CRAWLERS, 48 IN. TREADS, 15° RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8 IN. BOOM PENDANTS, 1ST CWT. = 40,100#, 2ND CWT. = 35,800#, 3RD CWT. = 28,500#.

DJK
04/27/77, Rev. 8/1/78
DRHC. #5909-C

MANITOWOC ENGINEERING CO.
MANITOWOC, WISCONSIN