



CROFTON
INDUSTRIES

Manitowoc 4000W Ringer

S/N: 40212

MANITOWOC 400W - 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	193.9*														18
19	184.6*														19
20	175.2														20
22	153.5*														22
24	137.1														24
26	123.4														26
28	112.1														28
30	102.6														30
32	94.5														32
34	87.5														34
36	81.5														36
38	76.0														38
40	71.3														40
45	66.6														45
50	63.3														50
55	60.8														55
60	58.8														60
65	57.4														65
70	56.4														70
75	55.4														75
80															80
85															85
90															90
95															95
100															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 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#.



S/N: 40212

2C 400W - 24' CRAWLERS EXTENDED
 LIETCRANE CAPACITIES - 104,400# CWT.
 BCCM #22 WITH OPEN THROAT TOP
 CRAWLER MACHINE ON BARGE - 2 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	
17	230.8*														17
18	218.0*														18
19	206.5*														19
20	196.0	199.1*													20
22	170.3	165.2*													22
24	150.3	146.7	182.8*												24
26	134.3	131.3	151.8*	157.6											26
28	121.3	118.7	128.4	125.8	136.7										28
30	110.4	108.1	116.2	113.6	111.3	120.1									30
32	101.2	100.1	105.9	103.6	101.3	108.9	107.0								32
34	93.4	91.5	97.2	95.0	93.4	99.5	97.9	95.9							34
36	86.6	84.4	89.9	87.7	86.2	91.5	89.9	88.2	86.5						36
40	75.4	74.1	77.7	75.9	74.6	78.4	77.3	75.7	74.3	78.4					40
45	64.4	63.1	66.6	64.9	63.6	67.4	66.3	64.7	63.3	66.6	71.6				45
50	55.9	54.6	58.1	56.4	55.1	58.8	57.7	56.1	54.7	58.1	63.6	65.5			50
55	48.4	47.1	50.6	48.9	47.6	51.3	50.2	48.6	47.2	50.6	55.9	52.4	60.0		55
60	42.0	40.7	44.2	42.5	41.2	44.9	43.8	42.2	40.8	44.2	49.5	46.0	44.4	58.8	60
65	36.5	35.2	38.7	37.0	35.7	39.4	38.3	36.7	35.3	38.7	43.6	40.1	38.5	47.2	65
70	31.5	30.2	33.7	32.0	30.7	34.4	33.3	31.7	30.3	33.7	38.6	35.1	33.5	41.9	70
75	27.0	25.7	29.2	27.5	26.2	29.9	28.8	27.2	25.8	29.2	33.6	30.1	28.5	36.4	75
80	23.0	21.7	25.2	23.5	22.2	25.9	24.8	23.2	21.8	25.2	28.6	25.1	23.5	31.3	80
85	19.5	18.2	21.7	19.8	18.5	22.2	21.1	19.5	18.1	21.5	23.6	20.1	18.5	26.2	85
90	16.5	15.2	18.7	16.8	15.5	19.2	18.1	16.5	15.1	18.5	20.6	17.1	15.5	21.1	90
95	14.0	12.7	16.2	14.3	13.0	16.7	15.6	14.0	12.6	16.0	17.6	14.1	12.5	16.0	95
100	12.0	10.7	14.2	12.3	11.0	14.7	13.6	12.0	10.6	14.0	15.6	12.1	10.5	14.0	100
105	10.5	9.2	12.7	10.8	9.5	13.2	12.1	10.5	9.1	12.5	14.1	10.6	9.0	12.5	105
110	9.0	7.7	11.2	9.3	8.0	11.7	10.6	9.0	7.6	11.0	12.6	9.1	7.5	11.0	110
115	7.5	6.2	9.7	7.8	6.5	10.2	9.1	7.5	6.1	9.5	11.1	7.6	6.0	9.5	115
120	6.0	4.7	8.2	6.3	5.0	8.7	7.6	6.0	4.6	8.0	9.6	6.1	4.5	8.0	120
125	5.0	3.7	7.2	5.3	4.0	7.7	6.6	5.0	3.6	7.0	8.1	5.1	3.5	7.0	125
130	4.0	2.7	6.2	4.3	3.0	6.7	5.6	4.0	2.6	6.0	7.1	4.1	2.5	6.0	130
135	3.5	2.2	5.2	3.8	2.5	5.7	4.6	3.5	2.1	5.0	6.1	3.6	2.0	5.0	135
140	3.0	1.7	4.2	3.3	2.0	4.7	3.6	3.0	1.6	4.0	5.1	3.1	1.5	4.0	140
145	2.5	1.2	3.2	2.8	1.5	3.7	2.6	2.5	1.1	3.0	4.1	2.6	1.0	3.0	145
150	2.0	0.7	2.2	2.3	1.0	2.7	1.6	2.0	0.6	2.0	3.1	2.1	0.5	2.0	150
155	1.5	0.2	1.2	1.8	0.5	1.7	0.6	1.5	0.1	1.0	2.1	1.6	0.0	1.0	155
160	1.0	0.0	0.2	1.3	0.0	0.7	0.0	1.0	0.0	0.0	1.1	1.1	0.0	0.0	160

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S/N: 40212

LIFT CRANE CAPACITIES - 104,400# CWT.

BCOM #22 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - 0 DEGREE MACHINE LIST

RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.												RAD. IN FT.		
	ROOM LENGTH - 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*	236.0*												19
20	249.3*	249.1*	211.9*	243.0*											20
22	212.2*	212.2*	182.6*	211.9*	215.9*										22
24	183.0*	183.0*	160.2*	182.6*	211.9*	186.8*									24
26	160.5*	160.5*	142.4*	159.9*	181.5*	158.9*									26
28	142.8*	142.8*	128.0*	141.9*	159.9*	141.1*	181.4*								28
30	128.4*	128.4*	116.5*	127.7*	141.9*	141.1*	157.0*	157.0*							30
32	116.5*	116.5*	106.0*	115.5*	127.7*	126.0*	140.5*	140.5*	139.7						32
34	106.0*	106.0*	97.5*	105.5*	115.5*	114.1*	126.0*	125.6*	125.2*	124.9					34
36	97.5*	97.5*	90.0*	96.6*	105.5*	104.0*	114.1*	113.6*	113.0*	112.8	112.5				36
38	84.4*	84.4*	80.0*	86.6*	96.6*	95.4*	104.0*	103.5*	103.0*	102.8	102.4	112.1			38
40	71.1*	71.1*	70.0*	77.7*	86.6*	85.4*	95.4*	94.9*	94.4*	94.2	93.8	93.4	112.1	95.5*	40
42	61.4*	61.4*	60.0*	69.9*	77.7*	77.7*	87.9*	87.5*	87.0*	86.7	86.3	86.0	93.4	88.8*	42
44	53.7*	53.7*	53.3*	60.9*	69.9*	69.9*	81.1*	80.9*	80.5*	80.2	79.8	79.4	86.0	82.5*	44
46	47.5*	47.5*	47.0*	55.9*	64.4*	64.4*	74.4*	74.1*	73.8	73.5	73.1	72.7	78.8	75.3*	46
48	42.4*	42.4*	41.9*	51.1*	59.9*	59.9*	68.6*	68.4*	68.0	67.7	67.3	66.9	72.9	69.4*	48
50	38.2*	38.2*	37.7*	46.6*	55.9*	55.9*	64.4*	64.1*	63.7	63.4	63.0	62.6	68.6	65.1*	50
52	34.6*	34.6*	34.1*	41.9*	50.0*	50.0*	59.9*	59.6*	59.2	58.9	58.5	58.1	64.1	60.6*	52
54	31.5*	31.5*	31.0*	37.7*	46.6*	46.6*	55.9*	55.6*	55.2	54.9	54.5	54.1	60.1	56.6*	54
56			28.3*	33.3*	42.4*	42.4*	51.1*	50.8*	50.4	50.1	49.7	49.3	55.3	51.8*	56
58			25.9*	30.3*	37.7*	37.7*	46.6*	46.3*	45.9	45.6	45.2	44.8	50.8	47.3*	58
60			23.9*	27.6*	33.3*	33.3*	42.4*	42.1*	41.7	41.4	41.0	40.6	46.6	43.1*	60
62			22.2*	25.2*	30.3*	30.3*	37.7*	37.4*	37.0	36.7	36.3	35.9	41.9	38.4*	62
64			21.2*	23.1*	27.6*	27.6*	34.6*	34.3*	33.9	33.6	33.2	32.8	38.8	35.3*	64
66				21.1*	25.2*	25.2*	31.5*	31.2*	30.8	30.5	30.1	29.7	35.7	32.2*	66
68				19.1*	22.2*	22.2*	28.3*	28.0*	27.6	27.3	26.9	26.5	32.7	29.2*	68
70					19.1*	20.0*	25.2*	25.0*	24.6	24.3	23.9	23.5	29.2	25.7*	70
72						20.0*	22.2*	22.0*	21.6	21.3	20.9	20.5	26.6	23.1*	72
74							20.0*	19.9*	19.5	19.2	18.8	18.4	24.6	21.1*	74
76							18.3*	18.1*	17.7	17.4	17.0	16.6	22.2	18.7*	76
78							17.7*	17.5*	17.1	16.8	16.4	16.0	20.0	16.5*	78
80							16.6*	16.4*	16.0	15.7	15.3	14.9	18.3	14.8*	80
82							15.7*	15.5*	15.1	14.8	14.4	14.0	16.6	13.1*	82
84							14.8*	14.6*	14.2	13.9	13.5	13.1	14.8	11.6*	84
86							14.2*	14.0*	13.6	13.3	12.9	12.5	13.9	10.9*	86
88							13.3*	13.1*	12.7	12.4	12.0	11.6	12.9	10.2*	88
90							12.5*	12.3*	11.9	11.6	11.2	10.8	12.1	9.5*	90
92							11.9*	11.7*	11.3	11.0	10.6	10.2	11.5	8.8*	92
94							11.3*	11.1*	10.7	10.4	10.0	9.6	10.9	8.1*	94
96							10.8*	10.6*	10.2	9.9	9.5	9.1	10.3	7.6*	96
98							10.2*	10.0*	9.6	9.3	8.9	8.5	9.7	7.1*	98
100							9.6*	9.4*	9.0	8.7	8.3	7.9	9.1	6.6*	100
102							9.1*	8.9*	8.5	8.2	7.8	7.4	8.6	6.1*	102
104							8.5*	8.3*	7.9	7.6	7.2	6.8	8.0	5.6*	104
106							8.0*	7.8*	7.4	7.1	6.7	6.3	7.5	5.1*	106
108							7.5*	7.3*	6.9	6.6	6.2	5.8	7.0	4.7*	108
110							7.0*	6.8*	6.4	6.1	5.7	5.3	6.5	4.2*	110
112							6.5*	6.3*	5.9	5.6	5.2	4.8	6.0	3.8*	112
114							6.0*	5.8*	5.4	5.1	4.7	4.3	5.5	3.4*	114
116							5.5*	5.3*	4.9	4.6	4.2	3.8	5.0	3.0*	116
118							5.0*	4.8*	4.4	4.1	3.7	3.3	4.5	2.6*	118
120							4.5*	4.3*	3.9	3.6	3.2	2.8	4.0	2.2*	120
122							4.0*	3.8*	3.4	3.1	2.7	2.3	3.5	1.8*	122
124							3.5*	3.3*	2.9	2.6	2.2	1.8	3.0	1.4*	124
126							3.0*	2.8*	2.4	2.1	1.7	1.3	2.5	1.0*	126
128							2.5*	2.3*	1.9	1.6	1.2	0.8	2.0	0.6*	128
130							2.0*	1.8*	1.4	1.1	0.7	0.3	1.5	0.2*	130
132							1.5*	1.3*	0.9	0.6	0.2	0.0	1.0	0.0*	132
134							1.0*	0.8*	0.4	0.1	0.0	0.0	0.5	0.0*	134
136							0.5*	0.3*	0.0	0.0	0.0	0.0	0.0	0.0*	136
138							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	138
140							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	140
142							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	142
144							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	144
146							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	146
148							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	148
150							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	150
152							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	152
154							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	154
156							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	156
158							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	158
160							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	160
162							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	162
164							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	164
165							0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	165

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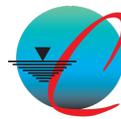
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DJK
04/27/77, Rev. 8/1/78
DRWG. #6909-A

MANITOWOC ENGINEERING CO.
MANITOWOC, WISCONSIN





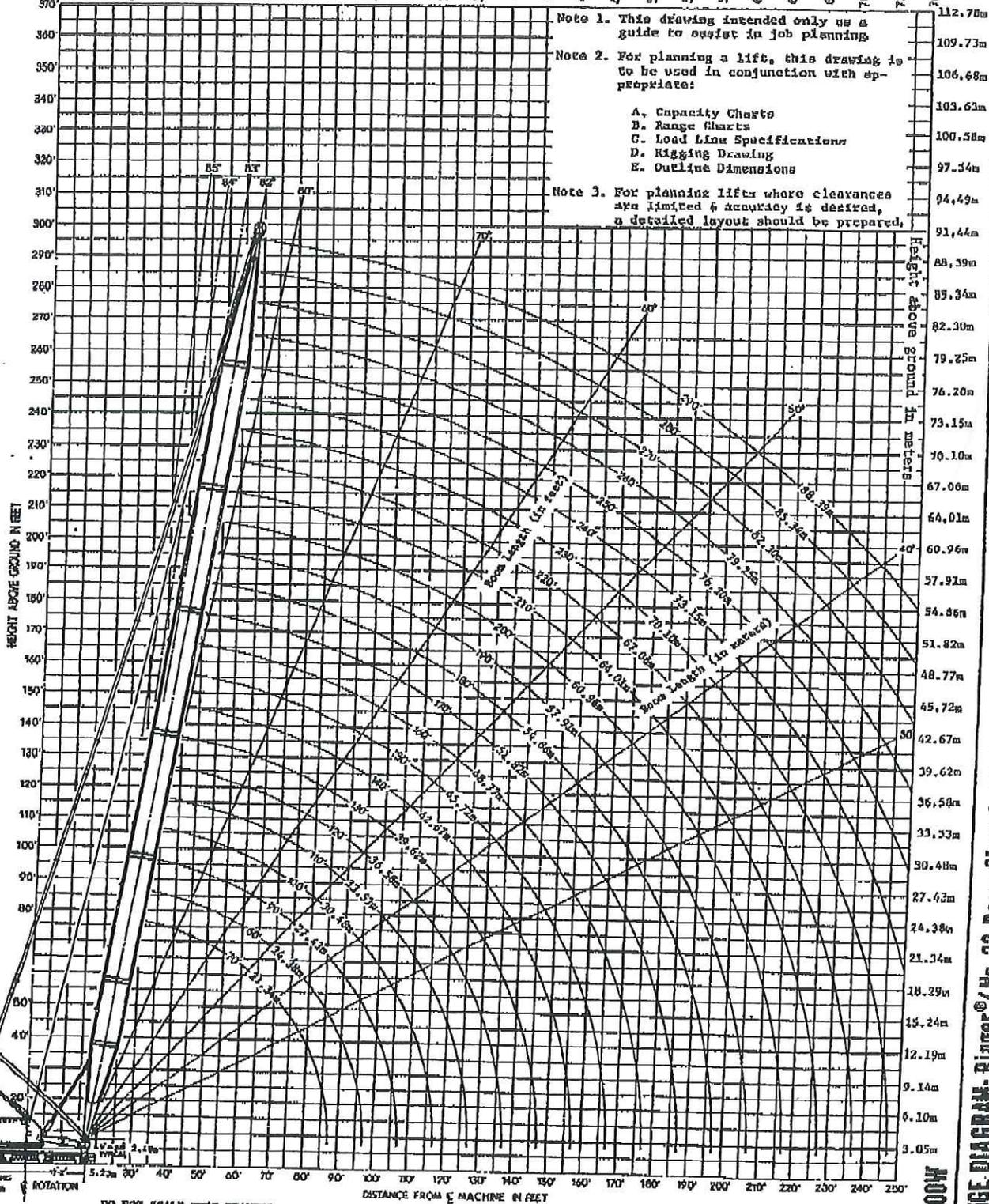
MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc.

Manitowoc, Wisconsin

Distance from machine in meters

- 3.05m
- 6.10m
- 9.14m
- 12.19m
- 15.24m
- 18.29m
- 21.34m
- 24.38m
- 27.43m
- 30.48m
- 33.53m
- 36.58m
- 39.63m
- 42.67m
- 45.72m
- 48.77m
- 51.82m
- 54.87m
- 57.92m
- 60.97m
- 64.02m
- 67.07m
- 70.12m
- 73.17m
- 76.22m



RANGE DIAGRAM - RIGGING (No. 22 Range Charts)

4000H

See Reverse Side

Larger Size Diagrams Available - Contact Dealer.