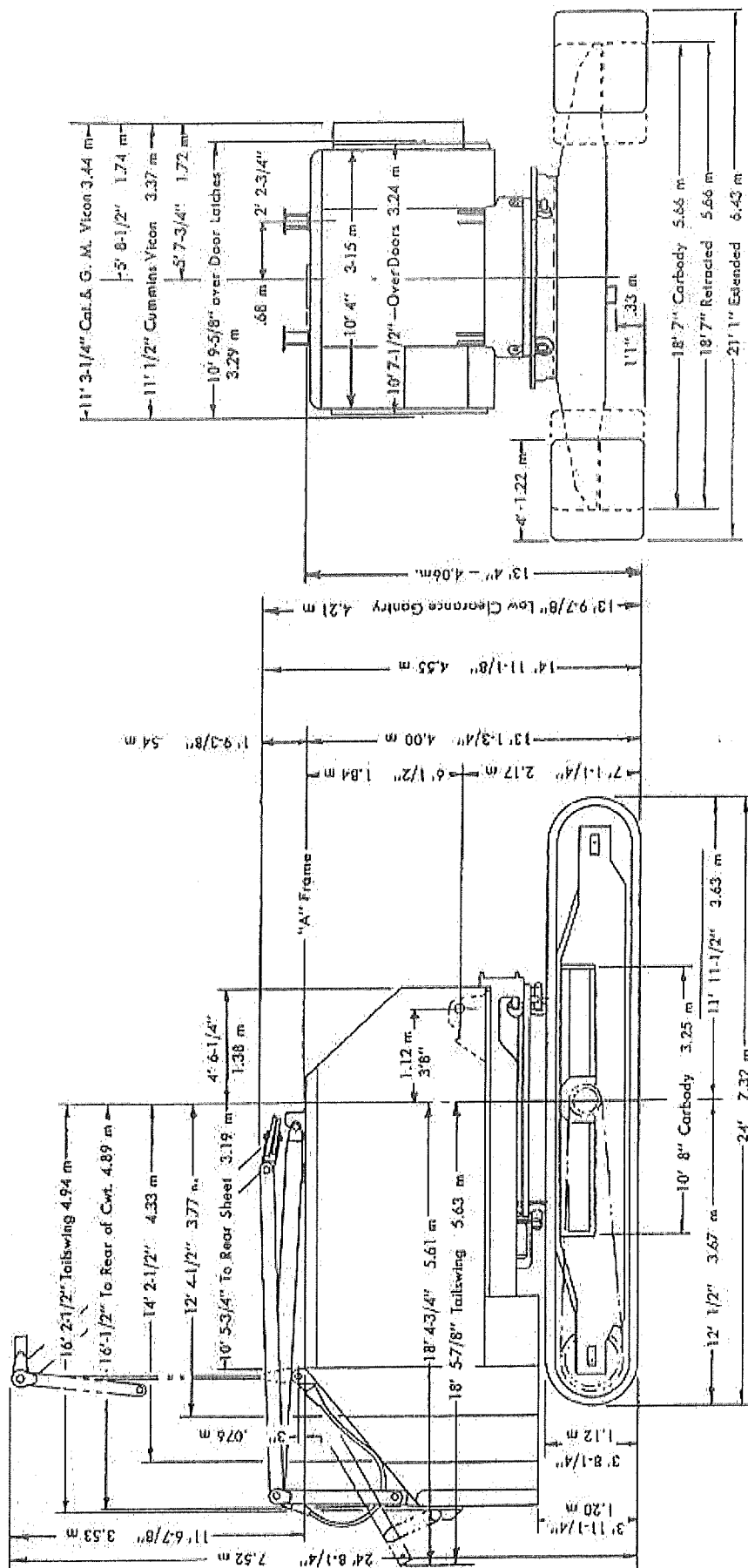


MANITOWOC ENGINEERING CO.

A Division of The Monitors Company, Inc.

Monitors, Wisconsin



MANITOWOC 4000W - 24' CRAWLERS EXTENDED

LIFT CRANE CAPACITIES - 104,400# CWT.

BOOM #17 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - G DEGREE MACHINE LIST

RAD. IN.	CAPACITIES IN THOUSANDS OF LBS.										RAD. IN.
	60	70	80	90	100	110	120	130	140	150	
17	300	292	277	260	237	213	187	160	132	104	17
17.5	295	287	272	255	232	208	182	155	127	99	17.5
20	288	280	265	248	225	201	175	148	120	92	20
22	282	274	259	242	219	195	169	142	114	86	22
24	276	268	253	236	213	189	163	136	108	80	24
26	270	262	247	230	207	183	157	130	102	74	26
28	264	256	241	224	201	177	151	124	96	68	28
30	258	250	235	218	195	171	145	118	90	62	30
32	252	244	229	212	189	165	139	112	84	56	32
34	246	238	223	206	183	159	133	106	78	50	34
36	240	232	217	200	177	153	127	100	72	44	36
38	234	226	211	194	171	147	121	94	66	38	38
40	228	220	205	188	165	141	115	88	60	32	40
42	222	214	200	182	159	135	109	82	54	26	42
44	216	208	193	176	153	129	103	76	48	20	44
46	210	202	187	170	147	123	97	70	42	14	46
48	204	196	181	164	141	117	91	64	36	8	48
50	198	190	175	158	135	111	85	58	30	2	50
52	192	184	169	152	129	105	79	52	24		52
54	186	178	163	146	123	99	73	46	18		54
56	180	172	157	140	117	93	67	40	12		56
58	174	166	151	134	111	87	61	34	6		58
60	168	160	145	128	105	81	55	28			60
62	162	154	139	122	99	75	49	22			62
64	156	148	133	116	93	69	43	16			64
66	150	142	127	110	87	63	37	10			66
68	144	136	121	104	81	57	31	4			68
70	138	130	115	98	75	51	25				70
72	132	124	109	92	69	45	19				72
74	126	118	103	86	63	39	13				74
76	120	112	97	80	57	33	7				76
78	114	106	91	74	51	27	1				78
80	108	100	85	68	45	21					80
82	102	94	79	62	39	15					82
84	96	88	73	56	33	9					84
86	90	82	67	50	27	3					86
88	84	76	61	44	21						88
90	78	70	55	38	15						90
92	72	64	49	32	9						92
94	66	58	43	26	3						94
96	60	52	37	20							96
98	54	46	31	14							98
100	48	40	25	8							100
102	42	34	19	2							102
104	36	28	13								104
106	30	22	7								106
108	24	16	1								108
110	18	10									110
112	12	4									112
114	6										114
116											116
118											118
120											120

CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*). WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT JALL, SLINGS, HOIST LINES, BENEATH BOOM POINT SHEAVES, ETC. IS CONSIDERED PART OF THE MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND APPROVED. SHOWN. OPERATION IS NOT INTERFERED OR APPROVED.

REFER TO RIGGING #48227, LOAD LINE SPECIFICATION CHART #5308 AND RANGE CHART #4798. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD 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, 42 IN. TREADS, 15' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, TWO 2 IN. BUOM PENCANTS, 1ST CWT. = 40,100#, 2ND CWT. = 35,500#, 3RD CWT. = 26,500#.

CJK
04/28/77, Rev. 8/1/78
CRWG #508-A

MANITOWOC ENGINEERING CO.
MANITOWOC, WISCONSIN

CRAWLER MACHINE ON BARGE - 2 DEGREE MACHINE LIST

MACHINE EQUIPPED WITH 244 EXTENSIBLE CRAWLERS. 48 IN. TREADS, 15" RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, TWO 2 IN. BOOM PENDANTS. 1ST CWT. = 40710#; 2ND CWT. = 359800#; 3RD CWT. = 23,500#.

MANITOWOC 460GW - 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		
17	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
18	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
19	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
20	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
21	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
22	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
23	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
24	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
25	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
26	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
27	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
28	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
29	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
30	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
31	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
32	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
33	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
34	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
35	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
36	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
37	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
38	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
39	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
40	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
41	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
42	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
43	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
44	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
45	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
46	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
47	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
48	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
49	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	
50	0.025	4.4	11.3	17.0	21.4	25.0	28.0	30.4	32.4	34.0	35.4	36.4	37.4	38.4	39.4	40.4	

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 BALLS, SLINGS, HOIST LINES BENEATH BOOM POINT SHEAVES, ETC. IS CONSIDERED PART OF THE MAIN BOOM LOAD. BOOM IS NOT TO BE USED 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' EXTENDIBLE CRAWLERS, 48 IN. TREADS, 15' RETRACTABLE GANTRY, 12 PART BOOM HOIST KEEVING, TWO 2 IN. BOOM PENDANTS, 1ST CWT. = 40,100#, 2ND CWT. = 35,800#, 3RD CWT. = 28,500#.

MANITOWOC 4000W - 24° CRAWLERS EXTENDED

LIFT CRANE CAPACITIES - 104,400# CWT.

BOOM #22 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - 0 DEGREE MACHINE LIST

CAPACITIES IN THOUSANDS OF LBS.																	
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CAPACITIES IN THOUSANDS OF LBS.																	
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ROOM LENGTH - FT.																	
CAPACITIES IN																	

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 POINT IS ATTACHED. FROM ABOVE CAPACITIES WHEN A HOIST LINE IS ATTACHED TO THE UPPER BOOM POINT IS ATTACHED AND 1,500# WHEN NO 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. TR6A05, 15° RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8 IN. BOOM PENDANTS, 1ST CWT. = 40,100#, 2ND CWT. = 35,600#, 3RD CWT. = 28,500#.

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

MANITOWOC ENGINEERING CO.
MANITOWOC, WISCONSIN

MANITOWOC 4000M - 24° CRAWLERS EXTENDED

LIFECRANE CAPACITIES - 1041400# CMT.

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	
17	230.8#										17
18	206.0#										18
19	186.0#	199.1#									19
20	170.3#	185.5#	187.9#								20
21	150.3#	165.5#	172.6#	157.6#							21
22	134.3#	148.7#	155.7#	153.8#	136.7#						22
23	121.3#	138.7#	145.7#	142.8#	122.8#	120.1#					23
24	110.4#	128.7#	135.7#	132.8#	111.8#	108.9#	107.0#				24
25	101.4#	119.7#	126.7#	123.8#	102.8#	99.9#	97.0#				25
26	93.4#	111.7#	118.7#	115.8#	94.8#	91.9#	89.0#				26
27	86.4#	104.7#	111.7#	108.8#	87.8#	84.9#	82.0#				27
28	80.4#	98.7#	105.7#	102.8#	81.8#	78.9#	76.0#				28
29	75.4#	93.7#	100.7#	97.8#	76.8#	73.9#	71.0#				29
30	70.4#	88.7#	95.7#	92.8#	71.8#	68.9#	66.0#				30
31	66.4#	84.7#	91.7#	88.8#	67.8#	64.9#	62.0#				31
32	62.4#	80.7#	87.7#	84.8#	63.8#	60.9#	58.0#				32
33	58.4#	76.7#	83.7#	80.8#	59.8#	56.9#	54.0#				33
34	54.4#	72.7#	79.7#	76.8#	55.8#	52.9#	50.0#				34
35	50.4#	68.7#	75.7#	72.8#	51.8#	48.9#	46.0#				35
36	46.4#	64.7#	71.7#	68.8#	47.8#	44.9#	42.0#				36
37	42.4#	60.7#	67.7#	64.8#	43.8#	40.9#	38.0#				37
38	38.4#	56.7#	63.7#	60.8#	39.8#	36.9#	34.0#				38
39	34.4#	52.7#	59.7#	56.8#	35.8#	32.9#	30.0#				39
40	30.4#	48.7#	55.7#	52.8#	31.8#	28.9#	26.0#				40
41	26.4#	44.7#	51.7#	48.8#	27.8#	24.9#	22.0#				41
42	22.4#	40.7#	47.7#	44.8#	23.8#	20.9#	18.0#				42
43	18.4#	36.7#	43.7#	40.8#	19.8#	16.9#	14.0#				43
44	14.4#	32.7#	39.7#	36.8#	15.8#	12.9#	10.0#				44
45	10.4#	28.7#	35.7#	32.8#	11.8#	8.9#	6.0#				45
46	6.4#	24.7#	31.7#	28.8#	7.8#	4.9#	2.0#				46
47	2.4#	20.7#	27.7#	24.8#	3.8#	0.9#	0.0#				47
48		16.7#	23.7#	20.8#	0.8#	0.0#	0.0#				48
49		12.7#	19.7#	16.8#	0.7#	0.0#	0.0#				49
50		8.7#	15.7#	12.8#	0.6#	0.0#	0.0#				50
51		4.7#	11.7#	8.8#	0.5#	0.0#	0.0#				51
52		0.7#	7.7#	4.8#	0.4#	0.0#	0.0#				52
53			3.7#	0.8#	0.3#	0.0#	0.0#				53
54				0.7#	0.2#	0.0#	0.0#				54
55					0.6#	0.0#	0.0#				55
56					0.5#	0.0#	0.0#				56
57					0.4#	0.0#	0.0#				57
58					0.3#	0.0#	0.0#				58
59					0.2#	0.0#	0.0#				59
60					0.1#	0.0#	0.0#				60
61					0.0#	0.0#	0.0#				61
62					0.0#	0.0#	0.0#				62
63					0.0#	0.0#	0.0#				63
64					0.0#	0.0#	0.0#				64
65					0.0#	0.0#	0.0#				65
66					0.0#	0.0#	0.0#				66
67					0.0#	0.0#	0.0#				67
68					0.0#	0.0#	0.0#				68
69					0.0#	0.0#	0.0#				69
70					0.0#	0.0#	0.0#				70

CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. TIPPING CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY UNRESTRICTED 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 BALLS, SLINGS, HOIST LINES, HOIST POINTS, 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 LOADED BEYOND RADII WHERE COMBINED HEIGHTS 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 CMT. = 40,100#, 2ND CMT. = 35,600#, 3RD CMT. = 28,500#.

DJK
04/27/77 Rev. 8/1/78
DRAG. #5909-B



MANITOWOC ENGINEERING CO.
MANITOWOC, WISCONSIN

MANITOWOC 4000W - 24' CRAWLERS EXTENDED

LIFTCRANE 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.		
	70	80	90	100	110	120	130	140	150	160	170		180	190
18	193.9#													18
19	184.5#													19
20	175.2#													20
21	166.0#													21
22	156.8#													22
23	147.6#													23
24	138.4#													24
25	129.2#													25
26	120.0#													26
27	110.8#													27
28	101.6#													28
29	92.4#													29
30	83.2#													30
31	74.0#													31
32	64.8#													32
33	55.6#													33
34	46.4#													34
35	37.2#													35
36	28.0#													36
37	18.8#													37
38	9.6#													38
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CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. TIPPING LOADS. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

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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.

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

MANITOWOC ENGINEERING CO.
MANITOWOC, WISCONSIN