

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	193.9*														18
19	184.6*														19
20	175.2	168.0*													20
22	153.9	148.5	143.5												22
24	137.1	132.6	128.4	124.3											24
26	123.4	119.6	116.0	112.5	109.2										26
28	112.1	108.8	105.7	102.6	99.8	96.9									28
30	102.6	99.7	97.0	94.2	91.7	89.1	87.1								30
32	94.5	91.9	89.4	86.9	84.7	82.4	80.6	78.4							32
34	87.5	85.1	82.9	80.6	78.6	76.5	74.9	72.9	71.1						34
36	81.4	79.2	77.2	75.1	73.2	71.3	69.9	68.0	66.3	64.6					36
38	76.0	74.0	72.2	70.2	68.5	66.7	65.4	63.7	62.1	60.5	59.2				38
40	71.3	69.4	67.7	65.8	64.2	62.6	61.4	59.8	58.3	56.8	55.6	54.2			40
45	61.5	59.9	58.4	56.7	55.4	53.9	52.9	51.6	50.3	48.9	47.9	46.7	45.5	44.2	45
50	53.9	52.4	51.1	49.6	48.4	47.1	46.3	45.0	43.9	42.7	41.8	40.7	39.6	38.5	50
55	47.8	46.4	45.2	43.9	42.8	41.6	40.9	39.7	38.7	37.6	36.8	35.8	34.8	33.7	55
60	42.8	41.5	40.4	39.1	38.1	37.0	36.4	35.3	34.3	33.3	32.6	31.7	30.8	29.8	60
65	38.8	37.5	36.4	35.2	34.2	33.2	32.6	31.6	30.7	29.7	29.0	28.2	27.3	26.4	65
70	35.4	34.0	33.0	31.8	30.9	29.9	29.4	28.4	27.6	26.6	26.0	25.2	24.4	23.5	70
75		31.1	30.1	28.9	28.1	27.1	26.6	25.6	24.8	23.9	23.4	22.6	21.8	20.9	75
80		28.7	27.5	26.4	25.6	24.6	24.2	23.2	22.5	21.6	21.1	20.3	19.5	18.7	80
85			25.4	24.2	23.4	22.5	22.0	21.1	20.4	19.5	19.0	18.3	17.5	16.7	85
90			23.5	22.3	21.5	20.6	20.1	19.3	18.5	17.7	17.2	16.5	15.8	15.0	90
95				20.6	19.8	18.9	18.5	17.6	16.9	16.1	15.6	14.9	14.2	13.4	95
100				19.2	18.3	17.3	16.9	16.1	15.4	14.6	14.1	13.4	12.7	12.0	100
105					16.9	16.0	15.6	14.8	14.1	13.3	12.8	12.1	11.4	10.7	105
110						14.8	14.4	13.5	12.8	12.1	11.6	10.9	10.3	9.5	110
115							13.7	13.3	12.4	11.7	10.9	10.5	9.8	9.2	115
120								12.2	11.4	10.7	9.9	9.5	8.8	8.2	120
125								11.3	10.5	9.8	9.0	8.6	7.9	7.3	125
130									9.6	9.0	8.2	7.8	7.1	6.5	130
135									8.9	8.2	7.4	7.0	6.3	5.7	135
140										7.5	6.7	6.2	5.6	5.0	140
145										6.8	6.0	5.6	4.9	4.3	145
150											5.4	4.9	4.3		150
155												4.8	4.4		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#.

