

MANITOWOC 4600 SERIES 3
LIFT CRANE CAPACITIES - 113,500# CWT.
BOOM #27 WITH OPEN THROAT TOP
CRAWLER MACHINE ON A BARGE - 0 DEGREE MACHINE LIST

RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.										RAD. IN FT.
	BOOM LENGTH - FT.										
	80	90	100	110	120	130	140	150	160	170	
18	480.0*										18
19	462.5										19
20	421.4	420.7									20
21	386.9	386.1	385.7								21
22	357.4	356.6	356.2								22
23	332.0	331.2	330.8	330.0							23
24	309.9	309.1	308.7	307.9	307.8						24
25	290.5	289.7	289.2	288.5	288.4						25
26	273.3	272.5	272.0	271.2	271.2	270.4					26
27	258.0	257.1	256.7	255.9	255.8	255.1	254.5				27
28	244.2	243.4	242.9	242.1	242.0	241.3	240.7				28
29	231.8	230.9	230.5	229.6	229.6	228.8	228.3	227.5			29
30	220.5	219.7	219.2	218.4	218.3	217.5	217.0	216.2	216.0		30
32	200.8	200.0	199.5	198.7	198.6	197.8	197.3	196.5	196.3	195.5	32
34	184.3	183.4	182.9	182.1	182.0	181.2	180.7	179.9	179.6	178.9	34
36	170.1	169.2	168.7	167.9	167.8	167.0	166.5	165.7	165.4	164.7	36
38	157.9	157.0	156.5	155.6	155.6	154.8	154.2	153.4	153.2	152.4	38
40	147.2	146.3	145.8	144.9	144.8	144.0	143.5	142.7	142.4	141.7	40
45	125.6	124.7	124.2	123.3	123.2	122.4	121.8	121.0	120.8	120.0	45
50	109.2	108.3	107.8	106.9	106.8	106.0	105.4	104.6	104.3	103.6	50
55	96.3	95.4	94.9	94.0	93.9	93.1	92.5	91.7	91.4	90.7	55
60	85.9	85.0	84.5	83.6	83.5	82.7	82.1	81.3	81.0	80.3	60
65	77.4	76.5	76.0	75.1	75.0	74.1	73.6	72.7	72.5	71.7	65
70	70.2	69.3	68.8	67.9	67.8	67.0	66.4	65.6	65.3	64.5	70
75	64.2	63.3	62.7	61.8	61.7	60.9	60.3	59.5	59.2	58.4	75
80	58.9	58.0	57.5	56.6	56.5	55.7	55.1	54.2	54.0	53.2	80
85		53.5	53.0	52.1	52.0	51.1	50.5	49.7	49.5	48.6	85
90		49.5	49.0	48.1	48.0	47.1	46.5	45.7	45.5	44.7	90
95			45.4	44.5	44.5	43.6	43.0	42.2	41.9	41.1	95
100			42.3	41.4	41.3	40.5	39.9	39.0	38.8	38.0	100
105				38.6	38.5	37.6	37.1	36.2	36.0	35.2	105
110				36.0	36.0	35.1	34.5	33.7	33.4	32.6	110
115					33.7	32.8	32.2	31.4	31.1	30.3	115
120					31.6	30.7	30.1	29.3	29.0	28.2	120
125						28.8	28.2	27.3	27.1	26.3	125
130						27.0	26.4	25.6	25.3	24.5	130
135							24.8	24.0	23.7	22.9	135
140							23.3	22.5	22.2	21.4	140
145								21.1	20.8	20.0	145
150								19.8	19.5	18.7	150
155									18.3	17.5	155
160									17.2	16.4	160
165										15.4	165
170										14.4	170

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RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.									RAD. IN FT.
	BOOM LENGTH - FT.									
	180	190	200	210	220	230	240	250	260	
34	178.3									34
36	164.1	163.4	163.0							36
38	151.8	151.1	150.7	150.0						38
40	141.1	140.3	140.0	139.3	138.7	138.0				40
45	119.4	118.7	118.3	117.6	117.0	116.2	115.8	115.1	114.5	45
50	103.0	102.2	101.9	101.1	100.5	99.8	99.4	98.6	98.0	50
55	90.1	89.3	88.9	88.2	87.6	86.8	86.4	85.7	85.1	55
60	79.7	78.9	78.5	77.8	77.2	76.4	76.0	75.3	74.6	60
65	71.1	70.3	70.0	69.2	68.6	67.8	67.4	66.7	66.1	65
70	63.9	63.1	62.8	62.0	61.4	60.6	60.2	59.5	58.9	70
75	57.8	57.0	56.7	55.9	55.3	54.5	54.1	53.4	52.8	75
80	52.6	51.8	51.5	50.7	50.1	49.3	48.9	48.1	47.5	80
85	48.0	47.2	46.9	46.1	45.5	44.7	44.3	43.6	42.9	85
90	44.0	43.2	42.9	42.1	41.5	40.7	40.3	39.6	38.9	90
95	40.5	39.7	39.4	38.6	38.0	37.2	36.8	36.0	35.4	95
100	37.4	36.6	36.2	35.4	34.8	34.0	33.6	32.9	32.2	100
105	34.5	33.7	33.4	32.6	32.0	31.2	30.8	30.0	29.4	105
110	32.0	31.2	30.8	30.1	29.4	28.7	28.3	27.5	26.9	110
115	29.7	28.9	28.5	27.8	27.1	26.3	25.9	25.1	24.6	115
120	27.6	26.8	26.4	25.7	25.0	24.2	23.8	23.1	22.4	120
125	25.7	24.9	24.5	23.7	23.1	22.3	21.9	21.2	20.5	125
130	23.9	23.1	22.8	22.0	21.3	20.6	20.2	19.4	18.8	130
135	22.3	21.5	21.1	20.4	19.7	18.9	18.5	17.8	17.1	135
140	20.8	20.0	19.6	18.9	18.2	17.4	17.0	16.3	15.6	140
145	19.4	18.6	18.2	17.5	16.8	16.0	15.6	14.9	14.2	145
150	18.1	17.3	17.0	16.2	15.5	14.7	14.4	13.6	12.9	150
155	16.9	16.1	15.8	15.0	14.3	13.5	13.1	12.4	11.7	155
160	15.8	15.0	14.6	13.8	13.2	12.4	12.0	11.3	10.6	160
165	14.7	13.9	13.6	12.8	12.2	11.4	11.0	10.2	9.6	165
170	13.8	12.9	12.6	11.8	11.2	10.4	10.0	9.2	8.6	170
175	12.8	12.0	11.7	10.9	10.2	9.5	9.1	8.3	7.6	175
180	12.0	11.1	10.8	10.0	9.4	8.6	8.2	7.4	6.8	180
185		10.3	10.0	9.2	8.5	7.8	7.4	6.6	5.9	185
190			9.2	8.4	7.7	7.0	6.6	5.8	5.2	190
195			8.5	7.7	7.0	6.2	5.8	5.1	4.4	195
200				7.0	6.3	5.5	5.1	4.4		200
205				6.3	5.7	4.9	4.5			205
210					5.0					210
215					4.4					215

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 (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 40,000#. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

WEIGHT OF UPPER BOOM POINT, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT SHEAVES, 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.

MACHINE TO OPERATE WITH MACHINE LIST NOT TO EXCEED DEGREES NOTED ABOVE. REFER TO RIGGING #50973, LOAD LINE SPECIFICATION CHART #6444-A, RANGE CHART #6721-A AND POWER PLANT AND COUNTERWEIGHT ARRANGEMENT CHART #6655-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, WIND CONDITIONS, 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 26'-1 CRAWLERS, 60 IN. TREADS, 30' HEAVY DUTY MAST, VICON INDEPENDENT BOOM HOIST WITH 16 PART REEVING, 12 PART MAST HOIST REEVING, FOUR 1-3/8 IN. BOOM PENDANTS AND 113,500# COUNTERWEIGHT.

MAXIMUM BOOM LENGTH LIFTED UNASSISTED	
OVER FRONT OF BLOCKED CRAWLERS IS 260'	OVER SIDE OF CRAWLERS IS 230'
LOAD BLOCK, HOOK AND WEIGHT BALL ON BARGE AT START. JIB IS NOT TO BE USED ON CRAWLER MACHINE WHILE OPERATING ON A BARGE.	

DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED	
ONE SHEAVE POINT	1,200#
TWO SHEAVE POINT	1,500#
INTEGRAL POINT	1,600#