

MANITOWOC 4600 SERIES 3
LIFTCRANE CAPACITIES - 113,500# CWT.
BOOM #27 WITH OPEN THROAT TOP
CRAWLER MACHINE ON A BARGE - 2 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		
21	294.4*										21
22	281.7*										22
23	269.0	258.9*									23
24	254.0	248.1									24
25	240.5	235.1	230.2								25
26	228.3	223.3	218.8								26
27	217.3	212.6	208.5	204.1							27
28	207.2	202.9	199.0	195.0	191.6						28
29	198.0	193.9	190.3	186.5	183.4						29
30	189.5	185.7	182.3	178.7	175.9	172.5					30
32	174.5	171.1	168.1	164.9	162.4	159.3	156.6				32
34	161.6	158.5	155.8	152.9	150.7	147.9	145.4	142.7			34
36	150.4	147.5	145.1	142.4	140.4	137.9	135.6	133.1	131.3		36
38	140.5	137.9	135.7	133.2	131.4	129.0	126.9	124.6	122.9	120.8	38
40	131.8	129.4	127.3	125.0	123.4	121.1	119.2	117.1	115.5	113.5	40
45	114.0	111.8	110.1	108.0	106.7	104.8	103.1	101.3	100.0	98.2	45
50	100.1	98.2	96.6	94.8	93.7	92.0	90.5	88.8	87.8	86.2	50
55	89.0	87.2	85.9	84.2	83.2	81.7	80.3	78.8	77.9	76.4	55
60	80.0	78.3	77.1	75.5	74.7	73.2	72.0	70.5	69.7	68.3	60
65	72.5	70.9	69.7	68.2	67.5	66.1	65.0	63.6	62.8	61.5	65
70	66.2	64.6	63.5	62.1	61.4	60.1	59.0	57.7	57.0	55.8	70
75	60.8	59.3	58.2	56.8	56.2	54.9	53.9	52.6	52.0	50.8	75
80	56.2	54.7	53.6	52.2	51.6	50.4	49.4	48.2	47.6	46.4	80
85		50.6	49.6	48.2	47.7	46.4	45.5	44.3	43.7	42.6	85
90		47.1	46.0	44.7	44.1	43.0	42.0	40.9	40.3	39.2	90
95			42.9	41.6	41.0	39.9	39.0	37.8	37.3	36.2	95
100			40.2	38.8	38.3	37.1	36.2	35.1	34.6	33.5	100
105				36.3	35.8	34.6	33.7	32.6	32.1	31.1	105
110				34.1	33.5	32.3	31.5	30.4	29.9	28.9	110
115					31.5	30.3	29.4	28.3	27.9	26.9	115
120					29.6	28.4	27.6	26.5	26.0	25.0	120
125						26.8	25.9	24.8	24.3	23.3	125
130							25.2	24.3	23.2	22.8	130
135								22.9	21.8	20.3	135
140								21.6	20.5	19.0	140
145									19.2	17.8	145
150									18.1	17.6	150
155										16.6	15.5
160										15.6	14.6
165											13.6
170											12.8

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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		
40	111.6								40
45	96.6	94.9	93.6	91.9					45
50	84.8	83.2	82.1	80.5	79.2	77.7	76.5		50
55	75.1	73.7	72.7	71.3	70.0	68.7	67.6	66.3	55
60	67.1	65.8	64.9	63.6	62.4	61.2	60.2	59.0	60
65	60.4	59.2	58.3	57.1	56.0	54.8	54.0	52.8	65
70	54.7	53.5	52.7	51.6	50.5	49.4	48.6	47.4	70
75	49.8	48.6	47.9	46.8	45.8	44.7	43.9	42.8	75
80	45.5	44.3	43.7	42.6	41.6	40.5	39.8	38.8	80
85	41.7	40.6	39.9	38.9	38.0	36.9	36.2	35.2	85
90	38.3	37.3	36.6	35.6	34.7	33.7	33.0	32.0	90
95	35.3	34.3	33.7	32.7	31.8	30.8	30.2	29.2	95
100	32.7	31.6	31.0	30.0	29.2	28.2	27.6	26.6	100
105	30.2	29.2	28.7	27.7	26.8	25.8	25.2	24.3	105
110	28.0	27.0	26.5	25.5	24.7	23.7	23.1	22.2	110
115	26.0	25.0	24.5	23.5	22.7	21.8	21.2	20.3	115
120	24.2	23.2	22.7	21.7	20.9	20.0	19.4	18.5	120
125	22.5	21.5	21.0	20.1	19.3	18.3	17.8	16.9	125
130	21.0	20.0	19.5	18.5	17.8	16.8	16.3	15.4	130
135	19.5	18.6	18.1	17.1	16.3	15.4	14.9	14.0	135
140	18.2	17.2	16.7	15.8	15.0	14.1	13.6	12.7	140
145	17.0	16.0	15.5	14.6	13.8	12.9	12.4	11.5	145
150	15.8	14.9	14.4	13.5	12.7	11.8	11.2	10.4	150
155	14.8	13.8	13.3	12.4	11.6	10.7	10.2	9.3	155
160	13.8	12.8	12.3	11.4	10.6	9.7	9.2	8.3	160
165	12.8	11.9	11.4	10.5	9.7	8.8	8.3	7.4	165
170	12.0	11.0	10.5	9.6	8.8	7.9	7.4	6.5	170
175	11.1	10.2	9.7	8.8	8.0	7.1	6.6	5.7	175
180	10.4	9.4	8.9	8.0	7.2	6.3	5.8	4.9	180
185		8.7	8.2	7.2	6.5	5.6	5.1	4.2	185
190			7.5	6.6	5.8	4.9	4.4		190
195			6.8	5.9	5.1	4.2			195
200				5.3	4.5				200
205				4.7					205

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 250'	OVER SIDE OF CRAWLERS IS 220'
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#