

MANITOWOC 4600 SERIES 4

LIFT CRANE CAPACITIES - 120,000# CWT. OR 123,000# CWT.

BOOM #278 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.																			
	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	
23	337.2*																			23
24	324.9*																			24
25	313.9*	291.1*																		25
26	304.7*	291.1*																		26
27	296.0*	282.7*	273.7*																	27
28	287.8*	273.8*	265.2*																	28
29	279.4	266.2*	257.2*	249.1*																29
30	267.4	259.3*	249.7*	241.9*																30
32	246.1	240.0	234.4	228.6*	221.9*															32
34	227.9	222.5	217.5	212.4	207.6															34
36	212.1	207.2	202.7	198.1	193.8	202.8														36
38	198.3	193.8	189.8	185.6	181.6	177.7	185.7													38
40	186.0	182.0	178.3	174.4	170.8	167.1	164.0	170.5												40
42	161.0	157.6	154.5	151.3	148.3	145.3	142.7	139.8	158.1											42
44	141.6	138.7	136.1	133.3	130.7	128.1	125.9	123.4	135.0	132.7										44
45	126.2	123.6	121.3	118.8	116.5	114.2	112.3	110.0	119.3	117.3	130.0									45
50	113.6	111.2	109.2	107.0	104.9	102.7	101.1	99.0	106.6	104.8	115.0	113.4								50
60	103.3	101.0	99.1	97.1	95.2	93.2	91.7	89.8	97.9	94.3	92.4	91.2	99.3							60
65	94.5	92.4	90.6	88.7	86.9	85.0	83.6	81.9	88.0	85.5	83.8	82.5	89.4	87.9						65
70	87.1	85.0	83.3	81.5	79.8	78.0	76.7	75.1	79.3	78.0	76.3	75.4	81.0	79.6	78.0					70
75		78.7	77.0	75.2	73.6	71.9	70.7	69.1	67.0	65.8	64.3	63.5	67.6	66.4	64.9	64.0				75
80		73.2	71.5	69.8	68.2	66.6	65.5	63.9	61.9	60.8	59.3	58.6	62.1	61.0	59.5	58.7	57.4			80
85			66.7	65.0	63.5	61.9	60.8	59.3	57.4	56.3	54.9	54.3	57.3	56.2	54.8	54.1	52.8			85
90			62.5	60.7	59.2	57.7	56.7	55.2	53.3	52.2	50.8	50.3	53.0	51.9	50.6	49.9	48.6			90
95				57.0	55.5	54.0	52.9	51.5	49.7	48.7	47.4	46.7	49.1	48.1	46.8	46.2	44.9			95
100				53.6	52.1	50.6	49.6	48.2	46.5	45.5	44.2	43.7	45.6	44.7	43.4	42.8	41.6			100
105					49.0	47.5	46.6	45.2	43.8	42.8	41.5	40.8	42.5	41.5	40.3	39.7	38.6			105
110					44.8	43.3	42.4	41.0	39.6	38.6	37.3	36.5	38.2	37.2	36.1	35.5	34.4			110
115					42.3	40.8	39.9	38.5	37.1	36.0	34.8	34.0	35.7	34.7	33.5	33.3	32.4			115
120					42.3	41.3	40.3	39.0	37.6	36.3	35.2	34.2	35.8	34.6	33.7	32.6	32.1			120
125					39.9	38.9	37.9	36.6	35.2	34.0	32.9	32.0	33.5	32.4	31.5	30.4	29.9			125
130					36.9	35.6	34.6	33.3	32.0	30.8	29.6	28.7	30.1	29.0	28.4	27.7	26.9			130
135						31.9	30.6	29.3	28.0	26.8	25.6	24.7	26.0	24.9	24.4	23.6	22.9			135
140							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			140
145							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			145
150							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			150
155							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			155
160							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			160
165							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			165
170							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			170
175							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			175
180							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			180
185							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			185
190							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			190
195							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			195
200							28.6	27.3	26.0	24.8	23.6	22.7	24.0	22.9	22.4	21.6	21.0			200

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, 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 GANTRY UP AND WITH A MACHINE LIST NOT TO EXCEED DEGREES NOTED ABOVE. REFER TO RIGGING #65234, LOAD LINE SPECIFICATION CHART #6495-A AND RANGE CHART #6785-A. 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 30'-5 CRAWLERS, 60 IN. TREADS, 33' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8 IN. BOOM PENDANTS, 123,000# CWT. WITH CWT. ASSEMBLY #190821 OR 120,000# CWT. WITH CWT. ASSEMBLY #49667.