

MANITOWOC 4600 SERIES 4

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

BOOM #278 WITH OPEN THROAT TOP

CRAWLER MACHINE ON 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	180	190	200	210	220	230	240	250	260		
22	390.4*																			22	
23	376.4*	358.8*																		23	
24	363.3*	346.7*																		24	
25	351.1*	335.4*	321.3*																	25	
26	339.7*	324.9*	311.5*																	26	
27	328.1	314.9*	302.2*	290.1*																27	
28	311.7	305.3	293.5*	281.9*																28	
29	296.7	290.9	285.2*	274.1*	263.9*															29	
30	283.1	277.6	272.6	266.8*	257.0*															30	
32	259.1	254.4	250.0	245.5	241.2	235.4*	228.8*													32	
34	238.8	234.6	230.7	226.7	222.9	219.0	215.7	211.4*												34	
36	221.3	217.5	214.1	210.4	207.0	203.5	200.5	197.2	194.7											36	
38	206.1	202.7	199.6	196.2	193.1	189.9	187.2	184.1	182.0	179.1										38	
40	192.8	189.6	186.8	183.7	180.9	177.9	175.5	172.6	170.7	168.0	165.6									40	
45	165.7	163.0	160.7	158.1	155.7	153.3	151.2	148.8	147.4	145.1	143.1	140.9	139.4	137.2						45	
50	144.9	142.6	140.6	138.4	136.3	134.1	132.4	130.4	129.2	127.2	125.5	123.5	122.3	120.4	118.8	116.9				50	
55	128.5	126.6	124.7	122.7	120.9	118.9	117.4	115.6	114.6	112.8	111.3	109.5	108.5	106.8	105.3	103.7	102.5	100.9	99.5	55	
60	115.3	113.4	111.8	110.0	108.3	106.5	105.2	103.4	102.6	101.0	99.7	98.0	97.1	95.6	94.3	92.7	91.7	90.2	89.0	60	
65	104.4	102.6	101.1	99.4	97.8	96.2	95.0	93.4	92.7	91.1	89.9	88.4	87.6	86.1	84.9	83.5	82.6	81.2	80.0	65	
70	95.2	93.5	92.1	90.5	89.0	87.4	86.3	84.8	84.2	82.8	81.6	80.2	79.5	78.1	77.0	75.7	74.9	73.5	72.4	70	
75	87.5	85.8	84.4	82.9	81.5	80.0	78.9	77.5	77.0	75.6	74.5	73.2	72.5	71.2	70.2	68.9	68.2	66.9	65.9	75	
80		79.1	77.8	76.3	75.0	73.5	72.5	71.2	70.7	69.4	68.4	67.1	66.5	65.2	64.2	63.0	62.3	61.1	60.1	80	
85		73.4	72.1	70.6	69.3	67.9	66.9	65.6	65.2	63.9	63.0	61.7	61.1	59.9	59.0	57.8	57.2	56.0	55.1	85	
90			67.0	65.6	64.3	62.9	62.0	60.7	60.3	59.1	58.2	57.0	56.5	55.3	54.4	53.2	52.6	51.5	50.6	90	
95			61.1	59.9	58.5	57.6	56.4	55.0	54.8	53.9	52.7	52.0	51.1	50.2	49.1	48.5	47.4	46.5	45.6	95	
100			57.2	55.9	54.6	53.7	52.5	51.2	51.0	50.1	48.9	48.5	47.4	46.5	45.4	44.9	43.8	42.9	42.0	100	
105			53.6	52.4	51.1	50.2	49.0	47.7	47.5	46.7	45.5	44.9	44.0	43.2	42.1	41.6	40.5	39.7	39.0	105	
110				49.2	47.9	47.0	45.8	44.7	44.4	43.6	42.4	42.4	41.5	40.6	39.9	38.6	37.5	36.7	36.1	110	
115				46.3	45.0	44.2	43.0	42.7	42.7	41.5	40.7	39.6	39.2	38.2	37.4	36.3	35.9	34.8	34.0	115	
120					42.4	41.5	40.3	40.1	38.9	38.2	37.1	36.7	35.6	34.9	33.8	33.4	32.3	31.6	31.0	120	
125						39.2	37.9	37.7	36.6	35.8	34.7	34.4	33.3	32.5	31.5	31.1	30.1	29.3	28.5	125	
130							35.8	35.5	34.4	33.6	32.5	32.2	31.2	30.4	29.4	28.9	28.0	27.2	26.5	130	
135							33.7	33.5	32.4	31.6	30.5	30.2	29.2	28.4	27.4	27.0	26.0	25.2	24.5	135	
140							31.9	31.6	30.5	29.8	28.7	28.4	27.3	26.6	25.6	25.2	24.2	23.4	22.7	140	
145								28.9	28.8	28.0	26.9	26.6	25.5	24.9	23.9	23.5	22.5	21.8	21.1	145	
150								28.3	27.2	26.4	25.3	25.0	24.0	23.3	22.3	21.9	21.0	20.2	19.5	150	
155									25.7	24.9	23.8	23.6	22.6	21.8	20.8	20.4	19.5	18.8	18.1	155	
160									24.3	23.5	22.5	22.2	21.2	20.4	19.5	19.1	18.2	17.4	16.8	160	
165										22.2	21.2	20.9	20.0	19.9	19.1	18.2	17.8	16.8	16.1	165	
170											20.8	19.6	18.6	17.9	16.9	16.6	15.6	14.9	14.3	170	
175												18.5	17.5	16.8	15.8	15.4	14.5	13.8	13.2	175	
180													17.4	16.4	15.7	14.7	14.3	13.4	12.7	180	
185														16.4	15.4	14.7	13.7	13.3	12.4	185	
190															14.4	13.7	12.7	12.4	11.4	190	
195																12.8	11.8	11.5	10.5	195	
200																	11.9	11.0	9.7	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 BENEATH BOOM POINT SHEAVES, ETC., 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.

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 (120,000# WITH CWT. ASSEMBLY #49667).