

MANITOWOC 4600 SERIES 4

LIFTCRANE CAPACITIES - 120,000 # CWT. OR 123,000# CWT.

BOOM #278 WITH OPEN THROAT TOP

CRAWLER MACHINE ON BARGE - 0 DEGREE MACHINE LIST

RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.																	RAD. IN FT.		
	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	
20	700.0*	647.3*																	20	
21	623.0*	621.3*																	21	
22	584.8	584.3	583.9																22	
23	537.0	536.4	536.0	535.4															23	
24	496.3	495.7	495.3	494.6															24	
25	461.1	460.5	460.1	459.4	458.9														25	
26	430.6	429.9	429.5	428.8	428.2	427.5													26	
27	403.7	403.0	402.6	401.9	401.3	400.5													27	
28	379.9	379.2	378.7	378.0	377.4	376.7	376.3												28	
29	358.6	358.0	357.5	356.8	356.1	355.4	355.0	354.3											29	
30	339.6	338.9	338.4	337.7	337.0	336.3	335.9	335.1											30	
32	306.8	306.1	305.6	304.8	304.2	303.4	303.0	302.2	302.3	301.6									32	
34	279.6	278.8	278.3	277.6	276.9	276.1	275.7	274.9	275.0	274.2	273.8								34	
36	256.6	255.9	255.4	254.6	253.9	253.1	252.7	251.9	251.9	251.2	250.7	250.0	249.8						36	
38	237.0	236.3	235.8	235.0	234.3	233.4	233.0	232.2	232.3	231.5	231.0	230.2	230.1	229.4					38	
40	220.1	219.3	218.8	218.0	217.3	216.5	216.0	215.2	215.3	214.5	214.0	213.1	212.3	211.8					40	
45	186.3	185.5	185.0	184.2	183.4	182.6	182.2	181.3	181.4	180.6	180.1	179.3	179.1	178.4	177.8	177.1	176.8	176.0*	45	
50	161.1	160.3	159.7	158.9	158.2	157.3	156.9	156.0	156.0	155.2	154.7	153.9	153.8	152.0	152.4	151.7	151.4	150.7	150.1	
55	141.5	140.7	140.2	139.3	138.6	137.7	137.3	136.4	136.4	135.6	135.1	134.3	134.1	133.3	132.8	132.0	131.7	131.0	130.4	
60	125.9	125.1	124.5	123.7	122.9	122.1	121.6	121.6	120.7	120.8	119.9	119.4	118.6	118.4	117.6	117.1	116.3	116.0	115.2	
65	113.2	112.3	111.8	110.9	110.2	109.3	108.8	107.9	108.0	107.1	106.6	105.8	105.6	104.8	104.3	103.4	103.2	102.4	101.8	
70	102.6	101.7	101.2	100.3	99.5	98.6	98.2	97.3	97.3	96.5	95.9	95.1	95.0	94.1	93.6	92.8	92.5	91.7	91.2	
75	93.6	92.8	92.2	91.3	90.6	89.7	89.2	88.3	88.3	87.5	87.0	86.1	86.0	85.1	84.6	83.8	83.5	82.7	82.1	
80		85.1	84.5	83.6	82.9	82.0	81.5	80.6	80.6	79.8	79.2	78.4	78.2	77.4	76.9	76.0	75.8	75.0	74.4	
85		78.5	77.9	77.0	76.2	75.3	74.9	74.0	74.0	73.1	72.6	71.7	71.6	70.7	70.2	69.4	69.1	68.3	67.7	
90		72.1	71.2	70.4	69.5	69.0	68.1	68.1	67.3	66.7	65.9	65.7	64.9	64.3	63.5	63.3	62.5	61.9	60	
95		67.0	66.1	65.3	64.4	63.9	63.0	63.0	62.1	61.6	60.7	60.6	59.8	59.2	58.4	58.1	57.3	56.7	55	
100		61.5	60.7	59.8	59.3	58.4	58.4	57.6	57.6	56.2	56.0	55.2	54.6	53.8	53.5	52.7	52.1	51	100	
105		57.4	56.7	55.7	55.3	54.4	54.4	53.5	53.5	52.1	51.9	51.1	50.5	49.7	49.4	48.6	48.0	47.5	46	
110			53.0	52.1	51.6	50.7	50.7	49.8	49.3	48.4	48.3	47.4	46.8	46.0	45.8	44.9	44.3	43.8	42	
115			49.7	48.8	48.3	47.4	47.4	46.5	46.5	45.0	44.9	44.1	43.5	42.7	42.4	41.6	41.0	40.5	40	
120				45.8	45.3	44.4	44.4	43.5	42.9	42.1	41.9	41.1	40.5	39.7	39.4	38.6	38.0	37.5	37	
125					42.5	41.6	41.5	40.7	40.2	39.3	39.2	38.3	37.7	36.9	36.6	35.8	35.2	34.7	34	
130						40.0	39.1	39.1	38.2	37.7	36.8	36.6	35.8	35.2	34.4	34.1	33.3	32.7	32	
135							36.8	36.8	35.9	35.3	34.5	34.3	33.5	32.9	32.0	31.8	31.0	30.4	30	
140								34.6	33.8	33.2	32.3	31.2	30.7	29.9	29.6	28.8	28.2	27.5	27	
145									32.7	31.8	31.2	30.3	30.2	29.3	28.8	27.9	27.7	26.8	26	
150										30.8	29.9	29.4	28.5	28.3	27.5	26.9	26.1	25.8	25.0	24.4
155											28.2	27.7	26.8	26.6	25.8	25.2	24.4	24.1	23.7	23
160												26.6	26.1	25.2	24.2	23.6	22.7	22.5	21.7	21.1
165													24.6	23.7	23.5	22.7	22.1	21.3	20.2	
170														22.3	22.1	21.3	20.7	19.8	18.8	
175															21.0	20.8	20.0	19.4	18.5	
180																19.6	18.7	18.1	17.3	
185																	18.4	17.6	17.0	
190																		16.1	15.9	
195																		16.5	15.9	
200																		15.4	14.8	

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).