

MANITOWOC 4600 SERIES 4 - RINGER SERIES 3
LIFT CRANE CAPACITIES - 60 FT. RINGER ATTACHMENT
ON BLOCKING OR PEDESTALS
BOOM #65
123,000# CRANE AND 889,300# AUXILIARY CWT.
BARGE MOUNT - 2 DEGREE MACHINE LIST

RAD. IN FT.	CAPACITIES IN THOUSANDS OF LBS.							RAD. IN FT.
	BOOM LENGTH - FT.							
	140	180	200	220	240	260	280	
60	493.7*							60
65	452.6*	443.4*						65
70	417.4*	408.4*	404.9*	401.6*				70
75	386.9*	378.1*	374.6*	371.4*				75
80	360.2*	351.5*	348.1*	345.0*	341.9*	338.7*	335.6*	80
85	336.7*	328.1*	324.7*	321.7*	318.6*	315.5*	312.4*	85
90	315.7*	307.3*	304.0*	300.9*	297.9*	294.9*	291.8*	90
95	297.0*	288.6*	285.4*	282.4*	279.4*	276.4*	273.4*	95
100	280.1*	271.9*	268.7*	265.7*	262.8*	259.8*	256.8*	100
105	264.9*	256.7*	253.5*	250.6*	247.7*	244.8*	241.8*	105
110	251.0*	242.9*	239.7*	236.9*	234.0*	231.1*	228.2*	110
115	238.3*	230.3*	227.2*	224.3*	221.5*	218.6*	215.7*	115
120	226.7*	218.7*	215.7*	212.8*	210.0*	207.2*	204.3*	120
125	216.0*	208.1*	205.1*	202.3*	199.5*	196.6*	193.8*	125
130	206.2*	198.3*	195.3*	192.5*	189.8*	186.9*	184.1*	130
135	197.0*	189.2*	186.2*	183.5*	180.7*	177.9*	175.1*	135
140	188.5*	180.8*	177.8*	175.1*	172.4*	169.6*	166.8*	140
145	180.6*	172.9*	170.0*	167.2*	164.6*	161.8*	159.0*	145
150	173.2*	165.6*	162.7*	160.0*	157.3*	154.5*	151.8*	150
155	166.3*	158.7*	155.8*	153.1*	150.5*	147.7*	145.0*	155
160	159.9*	152.3*	149.4*	146.7*	144.1*	141.4*	138.7*	160
165		146.3*	143.4*	140.7*	138.1*	135.4*	132.7*	165
170		140.6*	137.7*	135.1*	132.5*	129.8*	127.1*	170
175		135.2*	132.3*	129.7*	127.1*	124.5*	121.8*	175
180		130.1*	127.3*	124.7*	122.1*	119.4*	116.8*	180
185		125.3*	122.5*	119.9*	117.4*	114.7*	112.0*	185
190		120.8*	118.0*	115.4*	112.9*	110.2*	107.5*	190
195		116.5*	113.7*	111.1*	108.6*	105.9*	103.3*	195
200		112.3*	109.6*	107.0*	104.5*	101.9*	99.2*	200
205			105.7*	103.2*	100.6*	98.0*	95.4*	205
210			102.0*	99.5*	97.0*	94.4*	91.7*	210
215			98.5*	95.9*	93.5*	90.9*	88.2*	215
220			95.1*	92.6*	90.1*	87.5*	84.9*	220
225				89.4*	86.9*	84.3*	81.7*	225
230				86.3*	83.8*	81.3*	78.7*	230
235				83.3*	80.9*	78.3*	75.7*	235
240				80.5*	78.1*	75.5*	72.9*	240
245					75.4*	72.8*	70.3*	245
250					72.8*	70.3*	67.7*	250
255					70.3*	67.8*	65.2*	255
260					67.9*	65.4*	62.8*	260
265						63.1*	60.5*	265
270						60.9*	58.3*	270
275						58.7*	56.2*	275
280						56.6*	54.1*	280
285							52.1*	285
290							50.2*	290

CAPACITIES ARE FOR A 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 (*).

LOAD BLOCK, HOOK AND WEIGHT BALL ON BARGE AT START. JIB IS NOT TO BE USED ON MACHINE WHILE OPERATING ON A BARGE.

UPPER BOOM POINT CAPACITIES FOR SINGLE PART WHIP LINE ARE 44,000# FOR 1-1/4 IN. WIRE ROPE, 45,000# FOR 1-3/8 IN. WIRE ROPE AND 50,000# FOR 1-1/2 IN. OR 1-5/8 IN. WIRE ROPE. CAPACITIES FOR TWO PART LINE ARE 88,000# FOR 1-1/4 IN. WIRE ROPE, 90,000# FOR 1-3/8 IN. WIRE ROPE AND 100,000# FOR 1-1/2 IN. OR 1-5/8 IN. WIRE ROPE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

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 ROLLER PATH PROPERLY SUPPORTED AND MACHINE LIST NOT TO EXCEED DEGREES NOTED ABOVE. REFER TO RIGGING #66184, LOAD LINE SPECIFICATION CHART #7307-A OR #7357-A AND RANGE CHART #7305-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 60 FT. RINGER ATTACHMENT, 30'-5 CRAWLERS, 60 IN. TREADS, 33 FT. RETRACTABLE GANTRY, 130 FT. MAST, 18 PART BOOM HOIST REEVING, EIGHT 1-3/8 IN. BOOM PENDANTS, 123,000# CRANE CWT. (120,000# WITH CWT. ASSEMBLY #49667) AND 889,300# AUXILIARY CWT.