

MANITOWOC ENGINEERING CO.

Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



CLAMSHELL CAPACITIES 3900W SERIES 2

BOOM NO. 9A WITH OPEN THROAT TOP
43,000 LB. COUNTERWEIGHT

VICON

CRAWLERS EXTENDED

RAD. IN FT.	CAPACITIES IN POUNDS													
	BOOM LENGTH - FT.													
	60		70		80		90		100		110		120	
	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY
30	66.4	28,000*												
32	64.4	28,000*												
34	62.4	28,000*	66.4	28,000*										
36	60.3	28,000*	64.7	28,000*										
38	58.1	28,000*	62.9	28,000*	66.4	28,000*								
40	55.9	28,000*	61.1	28,000*	64.9	28,000*	67.8	28,000*						
45	50.2	28,000*	56.5	28,000*	61.0	28,000*	64.4	28,000*	67.0	28,000*				
50	44.0	28,000*	51.6	28,000*	56.9	28,000*	60.9	28,000*	64.0	28,000*	66.4	28,000*		
55	36.9	28,000*	46.4	28,000*	52.7	28,000*	57.3	28,000*	60.8	28,000*	63.6	28,000*	65.9	28,000*
60	28.4	28,000*	40.7	28,000*	48.2	28,000*	53.5	28,000*	57.6	28,000*	60.7	28,000*	63.3	28,000*
65			34.2	25,700	43.3	25,500	49.6	25,000	54.2	25,000	57.8	23,700	60.7	23,400
70			26.3	23,300	38.0	23,100	45.4	22,600	50.6	22,600	54.7	21,200	58.0	20,900
75					32.0	21,000	40.8	20,500	46.9	20,500	51.5	19,200	55.2	18,900
80					24.6	19,200	35.8	18,800	43.0	18,800	48.2	17,400	52.3	17,100
85							30.1	17,200	38.7	16,900	44.7	15,900	49.2	15,500
90							23.2	15,900	34.0	15,900	40.9	14,500	46.1	14,200
95									28.6	14,700	36.9	13,300	42.7	13,000
100									22.1	13,600	32.4	12,200	39.2	11,900
105											27.3	11,300	35.3	10,900
110													31.0	10,100
115													26.1	9,300

CRAWLERS RETRACTED

RAD. IN FT.	CAPACITIES IN POUNDS													
	BOOM LENGTH - FT.													
	60		70		80		90		100		110		120	
	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY
30	66.4	28,000*												
32	64.4	28,000*												
34	62.4	28,000*	66.4	28,000*										
36	60.3	28,000*	64.7	28,000*										
38	58.1	28,000*	62.9	28,000*	66.4	28,000*								
40	55.9	28,000*	61.1	28,000*	64.9	28,000*	67.8	28,000*						
45	50.2	28,000*	56.5	28,000*	61.0	28,000*	64.4	28,000*	67.0	28,000*				
50	44.0	28,000*	51.6	28,000*	56.9	28,000*	60.9	28,000*	64.0	28,000*	66.4	28,000*		
55	36.9	28,000*	46.4	27,500	52.7	27,300*	57.3	26,800	60.8	26,800	63.6	25,500	65.9	25,200
60	28.4	25,000	40.7	24,500	48.2	24,300	53.5	23,800	57.6	23,800	60.7	22,500	63.3	22,200
65			34.2	22,100	43.3	21,800	49.6	21,300	54.2	21,300	57.8	20,000	60.7	19,700
70			26.3	20,000	38.0	19,700	45.4	19,300	50.6	19,300	54.7	17,900	58.0	17,600
75					32.0	18,000	40.8	17,500	46.9	17,500	51.5	16,100	55.2	15,800
80					24.6	16,400	35.8	16,000	43.0	15,900	48.2	14,600	52.3	14,200
85							30.1	14,600	38.7	14,600	44.7	13,200	49.2	12,900
90							23.2	13,400	34.0	13,400	40.9	12,100	46.1	11,700
95									28.6	12,400	36.9	11,000	42.7	10,700
100									22.1	11,500	32.4	10,100	39.2	9,700
105											27.3	9,200	35.3	8,900
110													31.0	8,100
115													26.1	7,400

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 67.5% OF A STATIC TIPPING LOAD. CAPACITIES ARE BASED ON TIPPING, STRUCTURAL COMPETENCE (*), OPERATING SPEEDS AND OTHER FACTORS.

WEIGHT OF BUCKET IS CONSIDERED PART OF THE LOAD. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE IS TO BE OPERATED BY CONTROLLED CONVERTER LOWERING OF THE LOAD FOR CAPACITIES ABOVE 20,000 LBS.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. REFER TO RIGGING NO. 49501 AND WIRE ROPE SPECIFICATION CHART NO. 6427. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF GRAVITY OF THE FREELY SUSPENDED LOAD. BOOM ANGLE IS THE ANGLE ABOVE TRUE HORIZONTAL OF A LINE DRAWN THROUGH THE BOOM HINGE PIN AND THE UPPER BOOM POINT SHAFT CENTERLINE.

MACHINE EQUIPPED WITH 24' EXTENDIBLE CRAWLERS, 48" TREADS, 16' RETRACTABLE GANTRY, 10 OR 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS AND 43,000 LB. COUNTERWEIGHT.