

MANITOWOC ENGINEERING CO.

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



CLAMSHELL/GRAPPLE CAPACITIES _____ 3950W VICON

TANDEM DRUMS
BOOM NO. 39 WITH OPEN THROAT TOP
PENDANT RIGGING
43,000 LB. COUNTERWEIGHT

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 BOOM RIGGING NO. 160926 AND WIRE ROPE SPECIFICATION CHART NO. 6674-A. 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 BOOM POINT SHAFT CENTERLINE.

MACHINE EQUIPPED WITH FULL WIDTH FRONT AND REAR DRUMS, ROTATING BED NO. 167159 OR MODIFICATION NO. 420764, 24' EXTENDIBLE CRAWLERS, 48" TREADS, 16'6" RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS, AND 43,000 LB. COUNTERWEIGHT.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY CRAWLERS RETRACTED POUNDS	CAPACITY CRAWLERS EXTENDED POUNDS	
70	34	66.4	32,000*	32,000*	100	45	67.0	32,000*	32,000*	
	36	64.7	32,000*	32,000*		50	64.0	32,000*	32,000*	
	38	62.9	32,000*	32,000*		55	60.8	30,200	32,000*	
	40	61.1	32,000*	32,000*		60	57.6	26,700	29,700*	
	45	56.5	32,000*	32,000*		65	54.2	23,700	26,800*	
	50	51.6	32,000*	32,000*		70	50.6	21,300	24,300*	
	55	46.4	31,400	32,000*		75	46.9	19,200	22,100*	
	60	40.7	27,900	31,900*		80	43.0	17,400	20,100*	
	65	34.2	24,900	29,000*		85	38.7	15,800	18,400*	
	70	26.3	22,500	26,100		90	34.0	14,400	16,900*	
80	38	66.4	32,000*	32,000*	110	95	28.6	13,200	15,500*	
	40	64.9	32,000*	32,000*		100	22.1	12,100	14,200*	
	45	61.0	32,000*	32,000*		120	50	66.4	32,000*	32,000*
	50	56.9	32,000*	32,000*			55	63.6	29,800	32,000*
	55	52.7	31,000	32,000*			60	60.7	26,300	28,900*
	60	48.2	27,500	31,300*			65	57.8	23,300	26,000*
	65	43.3	24,600	28,300*			70	54.7	20,800	23,500*
	70	38.0	22,100	25,800*			75	51.5	18,700	21,300*
75	32.0	20,000	23,400*	80			48.2	16,900	19,400*	
80	24.6	18,200	21,300	85			44.7	15,300	17,600*	
90	40	67.8	32,000*	32,000*	90		40.9	14,000	16,100*	
	45	64.4	32,000*	32,000*	95		36.9	12,700	14,700*	
	50	60.9	32,000*	32,000*	100	32.4	11,600	13,500*		
	55	57.3	30,700	32,000*	105	27.3	10,700	12,400*		
	60	53.5	27,100	30,500*	130	55	65.9	29,500	31,800*	
	65	49.6	24,200	27,600*		60	63.3	25,900	28,400*	
	70	45.4	21,700	25,100*		65	60.7	23,000	25,400*	
	75	40.8	19,600	22,900*		70	58.0	20,500	22,900*	
	80	35.8	17,800	20,900*		75	55.2	18,400	20,700*	
	85	30.1	16,200	19,100		80	52.3	16,600	18,800*	
90	23.2	14,900	17,500	85		49.2	15,000	17,100*		
				90		46.1	13,600	15,600*		
				95		42.7	12,400	14,200*		
				100		39.2	11,300	12,900*		
				105	35.3	10,300	11,800*			
				110	31.0	9,400	10,700*			
				115	26.1	8,600	9,700*			