

MANITOWOC ENGINEERING CO.

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



CLAMSHELL/GRAPPLE CAPACITIES 4600 SERIES 3

BOOM NO. 27 WITH OPEN THROAT TOP
WITH VICON INDEPENDENT BOOM HOIST
88,500 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 TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE. REFER TO BOOM RIGGING NO. 50971, WIRE ROPE SPECIFICATION CHART NO. 6430, AND POWER PLANT AND COUNTERWEIGHT ARRANGEMENT CHART NO. 6655-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 26'1" CRAWLERS, 60" TREADS, 30' HEAVY DUTY MAST, 99 TOOTH FRONT DRUM GEAR, CONTROLLED CONVERTERS, VICON INDEPENDENT BOOM HOIST WITH 16 PART REEVING, 12 PART MAST HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, AND 88,500 LB. COUNTERWEIGHT.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY POUNDS
80	40	67.7	50,000*	120	60	65.3	50,000*
	45	63.9	50,000*		65	62.7	50,000*
	50	60.1	50,000*		70	60.1	50,000*
	55	56.1	50,000*		75	57.4	48,000*
	60	51.9	50,000*		80	54.6	44,000*
	65	47.4	50,000*		85	51.7	40,300*
	70	42.6	50,000*		90	48.7	37,100*
	75	37.3	48,000*		95	45.6	34,000
100	80	31.3	45,000*		100	42.2	31,500
	50	66.2	50,000*		105	38.7	29,200
	55	63.2	50,000*		110	34.8	27,200
	60	60.1	50,000*		115	30.6	25,300
	65	56.9	50,000*		120	25.7	23,600
	70	53.5	50,000*	140	65	66.7	50,000*
	75	50.0	48,000*		70	64.5	50,000*
	80	46.3	45,000*		75	62.3	47,000*
	85	42.4	41,300		80	60.1	42,900*
	90	38.1	38,100		85	57.7	39,300*
	95	33.4	35,300		90	55.4	36,100*
	100	28.1	32,800		95	52.9	33,200*
					100	50.4	30,600*
					105	47.7	28,200*
					110	45.0	26,000*
					115	42.1	23,900*
					120	39.1	22,100*
					125	35.8	20,300*
					130	32.3	18,700*
					135	28.3	17,200*