

MANITOWOC ENGINEERING CO.

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



CLAMSHELL/GRAPPLE CAPACITIES _____ 888 SERIES 1

**BOOM NO. 22E WITH OPEN THROAT TOP
109,100 LB. COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING**

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 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 WITH CRAWLERS FULLY EXTENDED AND GANTRY UP. REFER TO BOOM RIGGING NO. 176519 AND WIRE ROPE SPECIFICATION CHART NO. 7963-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

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

MACHINE EQUIPPED WITH 28' 2" EXTENDIBLE CRAWLERS, 48" TREADS, 10' 3" RETRACTABLE GANTRY, 30' LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, AND 109,100 LB. COUNTERWEIGHT.

DEDUCT 4,000 LBS. FROM CAPACITIES WHEN BOOM BUTT IS EQUIPPED WITH AUXILIARY DRUM.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY POUNDS
70	35	67.1	30,000*
	40	62.9	30,000*
	45	58.4	30,000*
	50	53.7	30,000*
	55	48.7	30,000*
	60	43.3	30,000*
	65	37.3	30,000*
	70	30.3	30,000*
80	40	66.3	30,000*
	45	62.5	30,000*
	50	58.6	30,000*
	55	54.5	30,000*
	60	50.2	30,000*
	65	45.5	30,000*
	70	40.5	30,000*
	75	34.9	30,000*
	80	28.4	30,000*
90	40	69.0	30,000*
	45	65.7	30,000*
	50	62.3	30,000*
	55	58.7	30,000*
	60	55.1	30,000*
	65	51.3	30,000*
	70	47.2	30,000*
	75	42.9	30,000*
	80	38.2	30,000*
	85	33.0	30,000*
	90	26.8	27,600
100	45	68.1	30,000*
	50	65.1	30,000*
	55	62.0	30,000*
	60	58.9	30,000*
	65	55.6	30,000*
	70	52.2	30,000*
	75	48.6	30,000*
	80	44.8	30,000*
	85	40.7	30,000*
	90	36.3	27,500
	95	31.3	25,100
	100	25.5	23,000

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY POUNDS
110	50	67.4	30,000*
	55	64.7	30,000*
	60	61.9	30,000*
	65	59.0	30,000*
	70	56.0	30,000*
	75	52.9	30,000*
	80	49.6	30,000*
	85	46.2	29,700
	90	42.7	27,100
	95	38.8	24,700
	100	34.6	22,700
	105	29.8	20,800
120	55	66.9	30,000*
	60	64.3	30,000*
	65	61.7	30,000*
	70	59.0	30,000*
	75	56.3	30,000*
	80	53.5	30,000*
	85	50.5	29,400
	90	47.5	26,800
	95	44.2	24,500
	100	40.8	22,400
	105	37.1	20,500
	110	33.1	18,800
	115	28.6	17,300