

MANITOWOC ENGINEERING CO.

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



CLAMSHELL/GRAPPLE CAPACITIES _____ 888 SERIES 1

BOOM NO. 22EL
109,100 LB. COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
360 DEGREE RATING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS 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. 177156 OR NO. 177353 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.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY POUNDS
70	35	67.5	30,000*
	40	63.0	30,000*
	45	58.2	30,000*
	50	53.1	30,000*
	55	47.6	30,000*
	60	41.6	30,000*
	65	34.7	30,000*
	70	26.1	30,000*
80	40	66.6	30,000*
	45	62.6	30,000*
	50	58.4	30,000*
	55	54.0	30,000*
	60	49.3	30,000*
	65	44.3	30,000*
90	70	38.7	30,000*
	75	32.3	30,000*
100	45	65.9	30,000*
	50	62.3	30,000*
	55	58.6	30,000*
	60	54.7	30,000*
	65	50.6	30,000*
	70	46.3	30,000*
	75	41.6	30,000*
	80	36.3	30,000*
110	85	30.3	28,500
	45	68.4	30,000*
	50	65.3	30,000*
	55	62.1	30,000*
	60	58.7	30,000*
	65	55.3	30,000*
	70	51.6	30,000*
	75	47.8	30,000*
120	80	43.7	30,000*
	85	39.3	28,600
	90	34.3	25,900
	95	28.7	23,500

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY POUNDS
110	50	67.7	30,000*
	55	64.8	30,000*
	60	61.9	30,000*
	65	58.8	30,000*
	70	55.7	30,000*
	75	52.4	30,000*
	80	49.0	30,000*
	85	45.4	28,400
120	90	41.5	25,700
	95	37.3	23,300
130	100	32.6	21,200
	105	27.2	19,200
140	55	67.1	30,000*
	60	64.4	30,000*
	65	61.7	30,000*
	70	58.9	30,000*
	75	56.1	30,000*
	80	53.1	30,000*
	85	50.0	28,300
	90	46.8	25,600
150	95	43.3	23,200
	100	39.6	21,100
160	105	35.6	19,200
	110	31.2	17,400
	115	26.0	15,800