

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

CRAWLER MACHINE ON A BARGE

0 DEGREE THRU 1 DEGREE AND 1 DEGREE THRU 3 DEGREE MACHINE LIST

360 DEGREE RATING

CAPACITIES ARE FOR A CRAWLER MACHINE WHEN OPERATING ON A BARGE. MACHINE SHALL BE POSITIVELY SECURED TO PREVENT SHIFTING. 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 ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH CRAWLERS FULLY EXTENDED, GANTRY UP AND MACHINE LIST NOT TO EXCEED DEGREES NOTED. 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 AT BARGE DECK TO CENTER OF GRAVITY OF FREELY SUSPENDED LOAD. BOOM ANGLE IS ANGLE ABOVE TRUE HORIZONTAL AND A LINE DRAWN THROUGH BOOM HINGE PIN AND 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 BUTTS EQUIPPED WITH AUXILIARY DRUM.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	0 DEGREE THRU 1 DEGREE MACHINE LIST CAPACITY POUNDS	1 DEGREE THRU 3 DEGREE MACHINE LIST CAPACITY POUNDS
70	35	67.1	30,000*	30,000*
	40	62.9	30,000*	30,000*
	45	58.4	30,000*	30,000*
	50	53.7	30,000*	30,000*
	55	48.7	30,000*	30,000*
	60	43.3	30,000*	30,000*
	65	37.3	30,000*	30,000*
	70	30.3	30,000*	30,000*
80	40	66.3	30,000*	30,000*
	45	62.5	30,000*	30,000*
	50	58.6	30,000*	30,000*
	55	54.5	30,000*	30,000*
	60	50.2	30,000*	30,000*
	65	45.5	30,000*	30,000*
	70	40.5	30,000*	30,000*
90	75	34.9	30,000*	30,000*
	80	28.4	30,000*	29,300*
	40	69.0	30,000*	30,000*
	45	65.7	30,000*	30,000*
	50	62.3	30,000*	30,000*
	55	58.7	30,000*	30,000*
	60	55.1	30,000*	30,000*
100	65	51.3	30,000*	30,000*
	70	47.2	30,000*	30,000*
	75	42.9	30,000*	30,000*
	80	38.2	30,000*	29,100*
	85	33.0	29,500	27,100*
	90	26.8	27,000	25,300*
110	45	68.1	30,000*	30,000*
	50	65.1	30,000*	30,000*
	55	62.0	30,000*	30,000*
	60	58.9	30,000*	30,000*
	65	55.6	30,000*	30,000*
	70	52.2	30,000*	30,000*
	75	48.6	30,000*	30,000*
120	80	44.8	30,000*	29,000*
	85	40.7	29,200	27,000*
	90	36.3	26,700	25,100
	95	31.3	24,500	23,200
	100	25.5	22,500	21,400
	50	67.4	30,000*	30,000*
	55	64.7	30,000*	30,000*
130	60	61.9	30,000*	30,000*
	65	59.0	30,000*	30,000*
	70	56.0	30,000*	30,000*
	75	52.9	30,000*	30,000*
	80	49.6	30,000*	28,800*
	85	46.2	28,600	26,600
	90	42.7	26,100	24,400
140	95	38.8	23,900	22,400
	100	34.6	22,000	20,700
	105	29.8	20,200	19,100
	55	66.9	30,000*	30,000*
	60	64.3	30,000*	30,000*
	65	61.7	30,000*	30,000*
	70	59.0	30,000*	30,000*
150	75	56.3	30,000*	30,000*
	80	53.5	30,000*	28,400
	85	50.5	28,200	26,000
	90	47.5	25,800	23,800
	95	44.2	23,600	21,800
	100	40.8	21,600	20,100
	105	37.1	19,900	18,500
160	110	33.1	18,300	17,100
	115	28.6	16,800	15,800