

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	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY POUNDS
70	35	67.5	30,000*	110	50	67.7	30,000*
	40	63.0	30,000*		55	64.8	30,000*
	45	58.2	30,000*		60	61.9	30,000*
	50	53.1	30,000*		65	58.8	30,000*
	55	47.6	30,000*		70	55.7	30,000*
	60	41.6	30,000*		75	52.4	30,000*
	65	34.7	30,000*		80	49.0	30,000*
80	70	26.1	30,000*	85	45.4	28,400	
	40	66.6	30,000*	90	41.5	25,700	
	45	62.6	30,000*	95	37.3	23,300	
	50	58.4	30,000*	100	32.6	21,200	
	55	54.0	30,000*	105	27.2	19,200	
	60	49.3	30,000*	120	55	67.1	30,000*
	65	44.3	30,000*		60	64.4	30,000*
70	38.7	30,000*	65		61.7	30,000*	
75	32.3	30,000*	70		58.9	30,000*	
45	65.9	30,000*	75		56.1	30,000*	
50	62.3	30,000*	80		53.1	30,000*	
55	58.6	30,000*	85		50.0	28,300	
60	54.7	30,000*	90	46.8	25,600		
65	50.6	30,000*	95	43.3	23,200		
70	46.3	30,000*	100	39.6	21,100		
75	41.6	30,000*	105	35.6	19,200		
80	36.3	30,000*	110	31.2	17,400		
85	30.3	28,500	115	26.0	15,800		
100	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*				
	80	43.7	30,000*				
	85	39.3	28,600				
	90	34.3	25,900				
95	28.7	23,500					