

MANITOWOC ENGINEERING CO.

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



CLAMSHELL/GRAPPLE CAPACITIES _____ 888 SERIES 1

BOOM NO. 22EL

49 490 kg COUNTERWEIGHT

8 585 mm 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. 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 8 585 mm EXTENDIBLE CRAWLERS, 1 219 mm TREADS, 3 124 mm RETRACTABLE GANTRY, 9 144 mm LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 35 mm BOOM PENDANTS, AND 49 490 kg COUNTERWEIGHT.

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	CAPACITY KILOGRAMS
2 1 · 3	7 0	10.7	67.5	13 600*
		11.0	66.5	13 600*
		12.0	63.5	13 600*
		13.0	60.4	13 600*
		14.0	57.2	13 600*
		16.0	50.4	13 600*
		18.0	42.8	13 600*
2 4 · 4	8 0	20.0	33.8	13 600*
		12.2	66.6	13 600*
		13.0	64.5	13 600*
		14.0	61.8	13 600*
		16.0	56.2	13 600*
2 7 · 4	9 0	18.0	50.2	13 600*
		20.0	43.6	13 600*
		22.0	36.0	13 600*
		13.7	65.9	13 600*
		14.0	65.2	13 600*
3 0 · 5	1 0 0	16.0	60.5	13 600*
		18.0	55.5	13 600*
		20.0	50.1	13 600*
		22.0	44.3	13 600*
		24.0	37.7	13 600*
		13.7	68.4	13 600*
		14.0	67.9	13 600*
		16.0	63.7	13 600*
		18.0	59.4	13 600*
		20.0	54.8	13 600*
3 0 · 5	1 0 0	22.0	50.0	13 600*
		24.0	44.8	13 600*
		26.0	39.0	12 900
		28.0	32.3	11 300

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	CAPACITY KILOGRAMS
3 3 · 5	1 1 0	15.2	67.7	13 600*
		16.0	66.3	13 600*
		18.0	62.4	13 600*
		20.0	58.5	13 600*
		22.0	54.3	13 600*
		24.0	49.9	13 600*
		26.0	45.2	12 800
3 6 · 6	1 2 0	28.0	40.0	11 200
		30.0	34.2	9 900
		32.0	27.3	8 700
		16.8	67.1	13 600*
		18.0	64.9	13 600*
		20.0	61.4	13 600*
		22.0	57.7	13 600*
		24.0	53.9	13 600*
		26.0	49.8	12 700
		28.0	45.5	11 100
3 6 · 6	1 2 0	30.0	40.8	9 800
		32.0	35.7	8 700
		34.0	29.7	7 600