

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

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. 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 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.

DEDUCT 1 810 kg FROM CAPACITIES WHEN
BOOM BUTT IS EQUIPPED WITH AUXILIARY DRUM.

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	CAPACITY KILOGRAMS
2 1 · 3	7 0	10.7	67.1	13 600*
		11.0	66.2	13 600*
		12.0	63.4	13 600*
		13.0	60.5	13 600*
		14.0	57.5	13 600*
		16.0	51.3	13 600*
		18.0	44.4	13 600*
2 4 · 4	8 0	20.0	36.5	13 600*
		12.2	66.3	13 600*
		13.0	64.3	13 600*
		14.0	61.8	13 600*
		16.0	56.6	13 600*
		18.0	51.0	13 600*
		20.0	44.9	13 600*
2 7 · 4	9 0	22.0	38.2	13 600*
		24.0	30.2	13 600*
		12.2	69.0	13 600*
		13.0	67.2	13 600*
		14.0	65.0	13 600*
		16.0	60.5	13 600*
		18.0	55.8	13 600*
2 7 · 4	9 0	20.0	50.8	13 600*
		22.0	45.4	13 600*
		24.0	39.4	13 600*
		26.0	32.6	13 500

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	CAPACITY KILOGRAMS
3 0 · 5	1 0 0	13.7	68.1	13 600*
		14.0	67.6	13 600*
		16.0	63.6	13 600*
		18.0	59.5	13 600*
		20.0	55.2	13 600*
		22.0	50.6	13 600*
		24.0	45.7	13 600*
3 3 · 5	1 1 0	26.0	40.4	13 500
		28.0	34.5	12 000
		30.0	27.4	10 700
		15.2	67.4	13 600*
		16.0	66.1	13 600*
		18.0	62.4	13 600*
		20.0	58.6	13 600*
3 6 · 6	1 2 0	22.0	54.6	13 600*
		24.0	50.5	13 600*
		26.0	46.0	13 400
		28.0	41.2	11 800
		30.0	35.9	10 500
		32.0	29.9	9 400
		16.8	66.9	13 600*
3 6 · 6	1 2 0	18.0	64.8	13 600*
		20.0	61.4	13 600*
		22.0	57.9	13 600*
		24.0	54.2	13 600*
		26.0	50.4	13 200
		28.0	46.3	11 700
		30.0	41.9	10 400
3 6 · 6	1 2 0	32.0	37.1	9 300
		34.0	31.8	8 300