

MANITOWOC ENGINEERING CO.

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



DRAGLINE CAPACITIES

3950D

**BOOM NO. 39A OR NO. 39C WITH OPEN THROAT TOP
8 PART CONTINUOUS BOOM HOIST REEVING
73,000 LB. COUNTERWEIGHT
24' CRAWLERS EXTENDED**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD. CAPACITIES ARE BASED ON TIPPING, STRUCTURAL COMPETENCE (*), OPERATING SPEEDS AND OTHER FACTORS.

WEIGHT OF BUCKET IS CONSIDERED PART OF THE LOAD. RAISING OR LOWERING OF BOOM MUST BE DONE WITHOUT LOAD ON BOOM. 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. REFER TO BOOM RIGGING NO. 162782 OR NO. 173500, WIRE ROPE SPECIFICATION CHART NO. 6682-A, AND REVOLVING FAIRLEAD ASSEMBLY FOR PROPER LINK USEAGE FOR VARIOUS BOOM ANGLE RANGES. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF GRAVITY OF THE FREELY SUSPENDED LOAD. BOOM ANGLE IS THE ANGLE ABOVE TRUE HORIZONTAL OF A LINE DRAWN THROUGH THE BOOM HINGE PIN AND THE BOOM POINT SHAFT CENTERLINE.

MACHINE EQUIPPED WITH 24' EXTENDIBLE CRAWLERS, 48" TREADS, 15'6" FIXED GANTRY, 8 PART CONTINUOUS BOOM HOIST REEVING, 1ST COUNTERWEIGHT = 43,000 LBS., AND 2ND COUNTERWEIGHT = 30,000 LBS.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	CAPACITY POUNDS
70	60	41.9	30,000*
	65	35.6	30,000*
80	65	44.3	30,000*
	70	39.2	30,000*
	75	33.3	30,000*
90	75	41.8	30,000*
	80	36.9	30,000*
	85	31.5	28,100*
100	80	43.8	30,000*
	85	39.6	28,300
	90	35.0	26,100
	95	29.9	23,200*
110	90	41.7	25,700
	95	37.7	23,800
	100	33.4	21,900*
120	95	43.4	23,500
	100	39.9	21,800
	105	36.1	20,200
	110	32.0	18,100*