

# MANITOWOC ENGINEERING CO.

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



## DRAGLINE CAPACITIES \_\_\_\_\_ 4600 SERIES 1

BOOM NO. 40

56,000 LB. (25 400 kg), 66,000 LB. (29 935 kg),  
OR 88,000 LB. (39 915 kg) COUNTERWEIGHT

BOOM LENGTH		RATED LOAD CAPACITY COLUMN A						OPERATING CAPACITY COLUMN B					
		BOOM POINT RADIUS		BOOM ANGLE	CAPACITY			BOOM POINT RADIUS		BOOM ANGLE	CAPACITY		
		FT.	METERS	DEGREES	LBS.	kg		FT.	METERS	DEGREES	LBS.	kg	
100	30.5	84	25.6	40.5	42,000•	19 050•		90	27.4	34.9	42,000•	19 050•	
120	36.6	98	29.9	41.4	36,000•	16 320•		105	32.0	36.0	36,000•	16 320•	
140	42.7	107	32.6	45.0	36,000•	16 320•		120	36.6	36.8	36,000•	16 320•	

DRAGLINE RATED LOAD CAPACITIES (COLUMN A) 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.

DRAGLINE OPERATING CAPACITIES (COLUMN B) ARE BASED ON TIPPING, STRUCTURAL COMPETENCE (•), OPERATING SPEEDS AND OTHER FACTORS, INCLUDING OPERATING PRACTICE WHERE PART OF THE LOAD IS DUMPED BEFORE THE BUCKET IS DIRECTLY UNDER THE BOOM POINT.

WEIGHT OF BUCKET IS CONSIDERED PART OF THE LOAD. IF EMPTY BUCKET WEIGHT EXCEEDS 20,000 LBS. (9 070 kg), MACHINE MUST BE OPERATED USING DRAGLINE INTERLOCK. RAISING OR LOWERING OF BOOM MUST BE DONE WITHOUT LOAD ON BOOM.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE. REFER TO RIGGING NO. 65550, NO. 66234, NO. 190765 OR NO. 191528, WIRE ROPE SPECIFICATION CHART NO. 6447-A AND POWER PLANT COUNTERWEIGHT ARRANGEMENT CHART NO. 6655-A. 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 26'1" (7 950 mm) CRAWLERS, 60" (1 524 mm) TREADS, 30' (9 144 mm) MAST, 12 PART MAST HOIST REEVING, FOUR 1-3/8" (35 mm) BOOM PENDANTS, TWO 3/4" (19 mm) INTERMEDIATE SUSPENSION PENDANTS AS SPECIFIED ON RIGGING DRAWING, 56,000 LB. (25 400 kg) COUNTERWEIGHT FOR 100' (30.5m) BOOM, 66,000 LB. (29 935 kg) COUNTERWEIGHT FOR 120' (36.6m) BOOM AND 88,000 LB. (39 915 kg) COUNTERWEIGHT FOR 140' (42.7m) BOOM.