

MANITOWOC ENGINEERING CO.

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



DRAGLINE CAPACITIES 3900W SERIES 2

REVOLVING FAIRLEAD
BOOM NO. 9A WITH OPEN THROAT TOP
43,000 LB. COUNTERWEIGHT

CRAWLERS EXTENDED

RAD. IN FT.	CAPACITIES IN POUNDS									
	BOOM LENGTH - FT.									
	60		70		80		90		100	
	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY
45	50.2	20,000*								
50	44.0	20,000*	51.6	20,000*						
55	36.9	20,000*	46.4	20,000*	52.7	20,000*				
60	28.4	20,000*	40.7	20,000*	48.2	20,000*	53.5	20,000*		
65			34.2	20,000*	43.3	20,000*	49.6	20,000*	54.2	20,000*
70			26.3	20,000*	38.0	20,000*	45.4	20,000*	50.6	20,000*
75					32.0	20,000*	40.8	20,000*	46.9	20,000*
80					24.6	20,000*	35.8	20,000*	43.0	20,000*
85							30.1	19,200	38.7	19,200
90							23.2	17,700	34.0	17,700
95									28.6	16,300
100									22.1	15,100

CRAWLERS RETRACTED

RAD. IN FT.	CAPACITIES IN POUNDS									
	BOOM LENGTH - FT.									
	60		70		80		90		100	
	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY	BOOM ANGLE	CAPACITY
45	50.2	20,000*								
50	44.0	20,000*	51.6	20,000*						
55	36.9	20,000*	46.4	20,000*	52.7	20,000*				
60	28.4	20,000*	40.7	20,000*	48.2	20,000*	53.5	20,000*		
65			34.2	20,000*	43.3	20,000*	49.6	20,000*	54.2	20,000*
70			26.3	20,000*	38.0	20,000*	45.4	20,000*	50.6	20,000*
75					32.0	20,000*	40.8	19,500	46.9	19,400
80					24.6	18,300	35.8	17,800	43.0	17,700
85							30.1	16,300	38.7	16,300
90							23.2	15,000	34.0	14,900
95									28.6	13,800
100									22.1	12,800

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. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED. REWRAP MAY OCCUR ON 90' AND 100' BOOM LENGTHS CAUSING EXCESSIVE WIRE ROPE WEAR. FOR CONTINUOUS DRAGLINE SERVICE WITH BOOM LENGTHS IN EXCESS OF 80', THE EXTENDED HINGED FAIRLEAD IS RECOMMENDED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. REFER TO RIGGING NO. 49501 AND WIRE ROPE SPECIFICATION CHART NO. 5341. 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 UPPER BOOM POINT SHAFT CENTERLINE.

MACHINE EQUIPPED WITH 24' EXTENDIBLE CRAWLERS, 48" TREADS, 16' RETRACTABLE GANTRY, 10 OR 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS AND 43,000 LB. COUNTERWEIGHT.