MANITOWOC ENGINEERING CO.

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



CLAMSHELL/GRAPPLE CAPACITIES. BOOM NO. 22A OR NO. 22C WITH OPEN THROAT TOP 83.400 LB. COUNTERWEIGHT

4100W SERIES 1

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 THE LOAD. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE IS TO BE OPERATED BY CONTROLLED CONVERTER LOWERING OF THE LOAD FOR CAPACITIES ABOVE 20,000 LBS. THE MAXIMUM ALLOWABLE CAPACITY FOR MACHINES EQUIPPED WITH FULL WIDTH FRONT AND REAR DRUMS OR FULL WIDTH FRONT, REAR, AND ROOF MOUNTED DRUMS IS 32,000 LBS. THE MAXIMUM ALLOWABLE CAPACITY FOR MACHINES EQUIPPED WITH FULL WIDTH FRONT AND REAR SPLIT 17-3/8" DRUMS IS 28,000 LBS.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. REFER TO BOOM RIGGING NO. 48721 OR NO. 190693 AND WIRE ROPE SPECIFICATION CHART NO. 6133. 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 26'6" EXTENDIBLE CRAWLERS, 48" TREADS, 17' RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 1ST COUNTERWEIGHT = 41.900 LBS., AND 2ND COUNTERWEIGHT = 41.500 LBS.

		ļ	ļ	CAPACITY	CAPACITY	V		ĺ .
	воом	OPER.	воом	CRAWLERS	CRAWLERS	ľ	BOOM	OPE
i	LGTH.	RAD.	ANG.	RETRACTED	EXTENDED	ı	LGTH.	RAD
	FEET	FEET	DEG.	POUNDS	POUNDS	l	FEET	FEE
		34	67.1	32,000*	32,000*	L		4
		36	65.5	32,000*	32,000+			1
	_	38 /	63.7	32,000*	32,000*	ı	4	8
		40	62.0	32,000*	32,000*	L		/€
	7	45	57.5	32,000*	32,000*	F		
	$\mathbf{\Omega}$	50	52.7	32,000*	32,000	l	0.	
	U	55	47.7	32,000*	32,000*			
		60	42.2	32,000*	32,000*			8
		65	36.0	32,000*	32,000*	,	0	8
1		70	28.7	32,000+	32,000	L		- 3
		38	67. I	32,000*	32,000*			10
		40	65.6	32,000*	32,000			
		45	61.7	32,000*	32,000*		1	5
	H/	50	57.8	32,000*	32,000*		1	5
	8	55	53.6	32,000*	32,000•		4	6
	\cap	60	49.3	32,000*	32,000•	ı	1	
	U	65	44.6	32,000*	32,000*		_	<u></u>
		70	39.5	32,000*	32,000*		1	
- 1		75	33.7	29,800	32,000*			8
		80	26.9	27,100	31,300	ĺ	\wedge	خ ا
- 1		40	40 7	70.000-	70 000+		0	
ł		40	68.3	32,000*	32,000*			
		45	65.0	32,000*	32,000*			
		50	61.6	32,000*	32,000*			10
- 1	9	55	58.0	32.000*	32,000* 32,000*			
١	J	60 65	54.3	32,000*	32,000*			6
١	\wedge	70	50.5	32,000*	32,000*			
1		75 75	46.4	32,000*	32,000		4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ļ		_	42.0	29,300				_
١		80 85	37.2	26,600	30,800 28,200		_	- '
ŀ		90	31.8	24,300	25,900		7	١
Į		90	25.4	22,300	25,900		2	
							_	8
							()	10

4				CAPACITY	CAPACITY
1	BOOM∕	OPER.	воом	CRAWLERS	CRAWLERS
1	LGTH.	RAD.	ANG,	RETRACTED	EXTENDED
I	FEET	FEET	DEG.	POUNDS	POUNDS
4		45	67.5	32,000*	32,000•
1		50	64.5	32,000*	32,000*
١	4	55	61.4	32,000*	32,000*
4		/60	58.2	32,000+	32,000*
₹		65	54.9	32,000+	32,000*
ł	0.	70	51.5	31,800	32,000*
1	U	75	47.8	28,700	32,000*
١		80	44.0	26,100	30,300
J		85	39.8	23,700	27,600
J		90	35.3	21,700	25,300
1		95	30.2	19,900	23,300
ı		100	24.2	18,300	21,500
Ī					
1		50	66.9	32,000*	32,000*
ı		55	64.1	32,000*	32,000*
1	4	60	61.3	32,000*	32,000*
١	1	65	58.4	32,000*	32,000*
١	_	70	55.4	31,400	32,000*
ı	1	75	52.2	28,300	32,000•
ļ		80	49.0	25,600	29,900
1	$\mathbf{\cap}$	85	45.6	23,300	27,200
١	\mathbf{O}	90	41.9	21,300	24,900
١		95 100	38.0 33.7	19,500 17,900	22,900
ı		105	28.8	16,400	19,400
ļ		105	20.0	10,400	17,400
1		55	66.4	32,000*	32.000*
1		60	63.8	32,000*	32,000*
1		65	61.2	32,000*	32,000*
1	4	70	58.5	30,900	32.000*
1		75	55.7	27,800	32,000*
1		80	52.9	25,100	29,300
	7	85	49.9	22,800	26,700
		90	46.8	20,700	24,400
		95	43.6	18,900	22,300
1	1 2 0	100	40.1	17,300	20,500
1		105	36.4	15,900	18,900
1		110	32.2	14,600	17,400
1		115	27.6	13,400	16,100
L					