

# MANITOWOC ENGINEERING CO.

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



## WIRE ROPE SPECIFICATIONS

# M-1200

LIFTCRANE - BOOM NO. 72/75A OR NO. 72A/75A  
MAST NO. 75 OR NO. 75A

WIRE ROPE LENGTHS						
BOOM LENGTH		HOIST LINE REAR RINGER DRUM		HOIST LINE FRONT RINGER DRUM		TOTAL PARTS OF LINE
FT.	METERS	FT.	METERS	FT.	METERS	
303	92.4	5200	1585	5200	1585	32
328	100.0	5200	1585	5200	1585	28
353	107.6	5200	1585	5200	1585	24
378	115.2	5200	1585	5200	1585	20

**NOTE:** ABOVE HOIST LINE LENGTHS ARE BASED ON TANDEM DRUMS BOTH REEVED TO MAIN LOAD BLOCK. EACH DRUM IS DEAD ENDED IN MAIN LOAD BLOCK REEVING. TOTAL PARTS OF LINE REQUIRES BOTH RINGER DRUMS. HOIST LINE LENGTHS WILL ALLOW HOOK TO TOUCH GROUND. WHEN BLOCK TRAVEL BELOW GROUND IS REQUIRED, ADD ADDITIONAL ROPE EQUAL TO PARTS OF LINE TIMES ADDED TRAVEL DISTANCE. HOISTING DISTANCE OR LINE PULL MAY BE LIMITED WHEN BLOCK TRAVEL BELOW GROUND IS REQUIRED.

HOIST REEVING FOR MAIN LOAD BLOCK - TOTAL FOR BOTH DRUMS				
NO. PARTS OF LINE	20	24	28	32
MAXIMUM LOAD-LBS.	1,140,000	1,350,000	1,570,000	1,764,000
MAXIMUM LOAD-kg	517,100	612,350	712,140	800,000
HOIST LINE: 1-5/8" (42 mm) - 6 X 41 WARRINGTON-SEALE, EXTRA IMPROVED PLOW STEEL REGULAR LAY, IWRC. (MEC PART NO. 719366) MINIMUM BREAKING STRENGTH 264,000 LBS. (119,750 kg) APPROX. WEIGHT = 4.88 LBS. PER FT. (7.26 kg/m)				

WIRE ROPE LENGTHS - AUXILIARY RINGER DRUM					
BOOM LENGTH		WHIP LINE			
		4 PART		6 PART	
FT.	METERS	FT.	METERS	FT.	METERS
303	92.4	1700	518	2400	732
328	100.0	1900	579	2600	792
353	107.6	2000	610	2800	853
378	115.2	2100	640	2900	884

WHIP LINE REEVING UPPER BOOM POINT BLOCK - AUXILIARY RINGER DRUM		
NO. PARTS OF LINE	4	6
MAXIMUM LOAD-LBS.	120,000	180,000
MAXIMUM LOAD-kg	54,430	81,650

WHIP LINE: 1-1/8" (29 mm) - 6 X 31 WARRINGTON-SEALE, EXTRA IMPROVED PLOW STEEL REGULAR LAY, IWRC. (MEC PART NO. 719282)  
MINIMUM BREAKING STRENGTH 130,000 LBS. (58,970 kg)  
MAXIMUM LOAD = 30,000 LBS. (13,610 kg) PER LINE  
APPROX. WEIGHT = 2.34 LBS. PER FT. (3.48 kg/m)

MAXIMUM SPOOLING CAPACITIES	
REAR RINGER DRUM: (HOIST LINE)	1-5/8" (42 mm) WIRE ROPE - 12 LAYERS - 6,544' (1,995m) 11 LAYERS - 6,309' (1,923m) WITH 32-1/2" (826 mm) DIA. LAGGING
FRONT RINGER DRUM: (HOIST LINE)	1-5/8" (42 mm) WIRE ROPE - 12 LAYERS - 6,544' (1,995m) 11 LAYERS - 6,309' (1,923m) WITH 32-1/2" (826 mm) DIA. LAGGING
AUX. RINGER DRUM: (WHIP LINE)	1-1/8" (29 mm) WIRE ROPE - 8 LAYERS - 3,522' (1,074m)

REFER TO DRUM AND LAGGING CHART NO. 7684-A.