

MANITOWOC ENGINEERING CO.

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

**WIRE ROPE SPECIFICATIONS****M-1200****LIFT CRANE - BOOM NO. 72 OR NO. 72A - MAST NO. 75 OR NO. 75A**

WIRE ROPE LENGTHS - TANDEM DRUMS						
BOOM LENGTH		HOIST LINE REAR RINGER DRUM		HOIST LINE FRONT RINGER DRUM		TOTAL MAXIMUM PARTS OF LINE
FT.	METERS	FT.	METERS	FT.	METERS	
153	46.6	4000	1219	4000	1219	48
178	54.3	4600	1402	4600	1402	48
203	61.9	5200	1585	5200	1585	48
228	69.5	5400	1646	5400	1646	44
253	77.1	5500	1676	5500	1676	40
278	84.7	5500	1676	5500	1676	36
303	92.4	5500	1676	5500	1676	32
328	100.0	5500	1676	5500	1676	28
353	107.6	5500	1676	5500	1676	28
378	115.2	5500	1676	5500	1676	24
403	122.8	5500	1676	5500	1676	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	36	40	44	48
MAXIMUM LOAD-LBS.	1,140,000	1,350,000	1,570,000	1,764,000	1,990,000	2,250,000	2,490,000	2,866,500
MAXIMUM LOAD-kg	517 100	612 350	712 140	800 000	902 650	1 020 580	1 129 450	1 300 000
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
153	46.6	950	290	1300	396
178	54.3	1100	335	1500	457
203	61.9	1200	366	1650	503
228	69.5	1350	411	1850	564
253	77.1	1450	442	2000	610
278	84.7	1600	488	2200	671
303	92.4	1700	518	2350	716
328	100.0	1800	549	2550	777
353	107.6	1950	594	2700	823
378	115.2	2050	625	2900	884
403	122.8	2200	671	3050	930

WHIP LINE REEVING - BOOM NO. 72A 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: 1-5/8" (42 mm) WIRE ROPE - 12 LAYERS - 6,544' (1 995m)	WITH 32-1/2" (826 mm) DIA. LAGGING
(HOIST LINE) 11 LAYERS - 6,309' (1 923m)	
FRONT RINGER DRUM: 1-5/8" (42 mm) WIRE ROPE - 12 LAYERS - 6,544' (1 995m)	WITH 32-1/2" (826 mm) DIA. LAGGING
(HOIST LINE) 11 LAYERS - 6,309' (1 923m)	
AUX. RINGER DRUM: 1-1/8" (29 mm) WIRE ROPE - 8 LAYERS - 3,522' (1 074m)	
(WHIP LINE)	
27' (8m) IS DEDUCTED FROM MAXIMUM SPOOLING CAPACITIES FOR 3 DEAD WRAPS PER DRUM OR LAGGING	

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

7683-A, 10-6-95/GA