

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

M-1200

LIFT CRANE - JIB NO. 75 ON

BOOM NO. 72 OR NO. 72A

WIRE ROPE LENGTHS - TANDEM DRUMS																	
BOOM AND JIB LENGTH		32 PARTS HOIST LINE				28 PARTS HOIST LINE				24 PARTS HOIST LINE				20 PARTS HOIST LINE			
		REAR RINGER DRUM		FRONT RINGER DRUM		REAR RINGER DRUM		FRONT RINGER DRUM		REAR RINGER DRUM		FRONT RINGER DRUM		REAR RINGER DRUM		FRONT RINGER DRUM	
		FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS
303	92.4	5300	1615	5300	1615												
328	100.0	5700	1737	5700	1737												
353	107.6	6100	1859	6100	1859	5400	1646	5400	1646								
378	115.2	6500	1981	6500	1981	5800	1768	5800	1768	5000	1524	5000	1524				
403	122.8	---	---	---	---	6100	1859	6100	1859	5300	1615	5300	1615				
428	130.5	---	---	---	---	---	---	---	---	5600	1707	5600	1707	4800	1463	4800	1463
453	138.1	---	---	---	---	---	---	---	---	6000	1829	6000	1829	5100	1554	5100	1554
478	145.7	---	---	---	---	---	---	---	---	---	---	---	---	5300	1615	5300	1615
503	153.3	---	---	---	---	---	---	---	---	---	---	---	---	5600	1707	5600	1707

NOTE: ABOVE HOIST LINE LENGTHS ARE BASED ON TANDEM DRUMS BOTH REEVED TO MAIN JIB BLOCK. EACH DRUM IS DEAD ENDED IN MAIN JIB BLOCK REEVING. TOTAL PARTS OF LINE REQUIRES USE OF 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 JIB 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 AND JIB LENGTH		WHIP LINE		6 PART		6 PART	
		4 PART	6 PART	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		
403	122.8	2200	671	3100	945		
428	130.5	2400	732	3300	1006		
453	138.1	2500	762	3500	1067		
478	145.7	2600	792	3600	1097		
503	153.3	2700	823	3800	1158		

WHIP LINE REEVING UPPER JIB 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)	

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-D, 8-9-94/GA