

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

M-1200

LIFTCRANE - BOOM NO. 75A - MAST NO. 75/49A, NO. 75 OR NO. 75A

WIRE ROPE LENGTHS					
BOOM LENGTH		HOIST LINE REAR RINGER DRUM		PARTS OF LINE	
FT.	METERS	FT.	METERS		
150	45.7	5000	1524	32	
175	53.3	5900	1798	32	
200	61.0	5900	1798	28	
225	68.6	5900	1798	24	
250	76.2	6500	1981	24	
275	83.8	6500	1981	20	
300	91.4	6500	1981	20	
325	99.1	6500	1981	16	
350	106.7	6500	1981	16	
375	114.3	6500	1981	12	
400	121.9	6500	1981	12	

NOTE: ABOVE HOIST LINE LENGTHS ARE BASED ON SINGLE PART LEAD LINE. 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								
NO. PARTS OF LINE	4	8	12	16	20	24	28	32
MAXIMUM LOAD-LBS.	235,000	455,000	655,000	820,000	1,020,000	1,280,000	1,520,000	1,800,000
MAXIMUM LOAD-kg	106 590	206 380	297 100	371 950	462 660	580 600	689 460	816 400
HOIST LINE: 1-5/8" (42 mm) - 6 X 41 WARRINGTON-SEALE, EXTRA IMPROVED PLOW STEEL REGULAR LAY, IWRC. (MCC PART NO. 719366) MINIMUM BREAKING STRENGTH 264,000 LBS. (119 750 kg) APPROX. WEIGHT = 4.88 LBS. PER FT. (7.26 kg/m)								
OR								
1-5/8" (42 mm) - BRIDON DYFORM - 34LR - 1 960 N/mm ² WIRE ROPE RIGHT HAND REGULAR LAY (MCC PART NO. 719404) MINIMUM BREAKING STRENGTH 324,520 LBS. (147 200 kg) APPROX. WEIGHT = 5.30 LBS. PER FT. (7.89 kg/m)								

WIRE ROPE LENGTHS - AUXILIARY RINGER DRUM					
BOOM LENGTH		WHIP LINE			
		4 PART		6 PART	
FT.	METERS	FT.	METERS	FT.	METERS
150	45.7	950	290	1300	396
175	53.3	1100	335	1500	457
200	61.0	1200	366	1650	503
225	68.6	1350	411	1850	564
250	76.2	1450	442	2000	610
275	83.8	1600	488	2200	671
300	91.4	1700	518	2350	716
325	99.1	1800	549	2550	777
350	106.7	1950	594	2700	823
375	114.3	2050	625	2900	884
400	121.9	2200	671	3050	930

WHIP LINE REEVING - BOOM NO. 75A 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. (MCC 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) (HOIST LINE) 11 LAYERS - 6,309' (1 923m) WITH 32-1/2" (826 mm) DIA. LAGGING	
AUX. RINGER DRUM: 1-1/8" (29 mm) WIRE ROPE - 8 LAYERS - 3,522' (1 047m) (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-C, 4-22-97/GA