

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

M-1200

**LIFTCRANE - BOOM NO. 72 OR NO. 72A - MAST NO. 75 OR NO. 75A
WITH JIB NO. 75 ATTACHED**

WIRE ROPE LENGTHS - SINGLE DRUM					
BOOM LENGTH		HOIST LINE FRONT RINGER DRUM		MAXIMUM PARTS OF LINE	MAXIMUM PARTS OF LINE FOR FULL HOISTING RANGE
FT.	METERS	FT.	METERS		
203	61.9	6500	1981	32	28
228	69.5	6500	1981	32	24
253	77.1	6500	1981	32	24

NOTE: ABOVE HOIST LINE LENGTHS ARE BASED ON SINGLE PART LEAD LINE. 32 PARTS OF LINE ARE MAXIMUM ALLOWED USING SINGLE DRUM. CHART CAPACITIES WILL BE REDUCED DUE TO REDUCED PARTS OF LINE. HOISTING DISTANCE WILL BE RESTRICTED USING MAXIMUM PARTS OF LINE.

REAR RINGER DRUM MAY BE USED TO REEVE JIB NO. 75 BLOCK USING SINGLE PART LEAD LINE. HOISTING DISTANCE ON JIB WILL BE RESTRICTED USING MAXIMUM PARTS OF LINE WITH SINGLE DRUM. SEE CHART NO. 7683-F FOR JIB NO. 75 WIRE ROPE SPECIFICATION WITH SINGLE DRUM APPLICATION.

HOIST REEVING FOR BOOM MAIN LOAD BLOCK - SINGLE DRUM							
NO. PARTS OF LINE	8	12	16	20	24	28	32
MAXIMUM LOAD-LBS.	455,000	655,000	820,000	1,020,000	1,280,000	1,520,000	1,764,000
MAXIMUM LOAD-kg	206 380	297 100	371 950	462 660	580 600	689 460	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		RINGER DRUM			
	4 PART	6 PART	FT. METERS			
203	61.9	1200	366	1650	503	
228	69.5	1350	411	1850	564	
253	77.1	1450	442	2000	610	

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)

SEE PAGE 2 FOR TANDEM DRUM APPLICATION.

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**LIFTCRANE - BOOM NO. 72 OR NO. 72A - MAST NO. 75 OR NO. 75A
WITH JIB NO. 75 ATTACHED**

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	
203	61.9	4800	1463	4800	1463	44
228	69.5	4900	1494	4900	1494	40
253	77.1	5500	1676	5500	1676	40

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. LOAD BLOCK AND HOIST LINE MUST BE REMOVED FROM JIB TO MAKE TANDEM DRUMS AVAILABLE. 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. SEE CHART NO. 7683-D FOR JIB NO. 75 WIRE ROPE SPECIFICATIONS WITH TANDEM DRUM APPLICATION.

HOIST REEVING FOR MAIN LOAD BLOCK - TANDEM DRUMS							
NO. PARTS OF LINE	20	24	28	32	36	40	44
MAXIMUM LOAD-LBS.	1,140,000	1,350,000	1,570,000	1,764,000	1,990,000	2,250,000	2,490,000
MAXIMUM LOAD-kg	517,100	612,350	712,140	800,000	902,650	1,020,580	1,129,450
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)							

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	

SEE PAGE 1 FOR SINGLE DRUM APPLICATION.

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