

# MANITOWOC ENGINEERING CO.

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



## WIRE ROPE SPECIFICATIONS

LIFTCRANE - BOOM NO. 44 WITH HEAVY LIFT TOP  
LUFFING JIB NO. 136 ATTACHED

**M-250** SERIES 2  
**SPECIAL**

HOIST LINE WIRE ROPE LENGTHS				
BOOM LENGTH		HOIST LINE FRONT DRUM		MAXIMUM PARTS OF LINE
FT.	METERS	FT.	METERS	
80	24.4	1475	450	16

**NOTE:** HOIST LINE LENGTHS GIVEN IN TABLE 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	1	2	3	4	5	6
MAXIMUM LOAD-LBS.	30,000	60,000	90,000	120,000	150,000	180,000
MAXIMUM LOAD-kg	13,610	27,220	40,820	54,430	68,040	81,650
NO. PARTS OF LINE	7	8	9	10	11	12
MAXIMUM LOAD-LBS.	210,000	240,000	270,000	300,000	330,000	360,000
MAXIMUM LOAD-kg	95,250	108,860	122,470	136,080	149,690	163,290
NO. PARTS OF LINE	13	14	15	16		
MAXIMUM LOAD-LBS.	390,000	420,000	450,000	460,000		
MAXIMUM LOAD-kg	176,900	190,510	204,120	208,600		

WIRE ROPE SPECIFICATIONS	
HOIST LINE: 1-1/8" (28.6 mm) - BRIDON DYFORM - 34LR - 1 960 N/mm <sup>2</sup> WIRE ROPE MINIMUM BREAKING STRENGTH 154,900 LBS. (70 260 kg) MCC PART NO. 719375 APPROX. WEIGHT = 2.70 LBS. PER FT. (4.02 kg/m)	
OR	
29 mm (1-1/8") - CASAR EUROLIFT - 1 770 N/mm <sup>2</sup> WIRE ROPE MINIMUM BREAKING STRENGTH 154,700 LBS. (70 170 kg) MCC PART NO. 719374 APPROX. WEIGHT = 2.85 LBS. PER FT. (4.25 kg/m)	

MAXIMUM SPOOLING CAPACITIES	
RIGHT REAR DRUM: (HOIST LINE - CONTAINER HANDLING)	1-1/8" (28.6 mm) WIRE ROPE - 2 LAYERS - 346' (105m) WITH 24-1/2" (622 mm) DIA. LAGGING
LEFT REAR DRUM: (HOIST LINE - CONTAINER HANDLING)	1-1/8" (28.6 mm) WIRE ROPE - 2 LAYERS - 346' (105m) WITH 24-1/2" (622 mm) DIA. LAGGING
FRONT DRUM: (HOIST LINE)	1-1/8" (28.6 mm) WIRE ROPE - 8 LAYERS - 2,028' (618m) 2,158' (658m) WITH 24-1/2" (622 mm) DIA. LAGGING
RIGHT REAR DRUM: (HOIST LINE)	1-1/8" (28.6 mm) WIRE ROPE - 8 LAYERS - 1,707' (520m) 1,817' (554m) WITH 24-1/2" (622 mm) DIA. LAGGING
LEFT REAR DRUM: (HOIST LINE)	1-1/8" (28.6 mm) WIRE ROPE - 8 LAYERS - 1,707' (520m) 1,817' (554m) WITH 24-1/2" (622 mm) DIA. LAGGING
20' (6m) IS DEDUCTED FROM MAXIMUM SPOOLING CAPACITIES FOR 3 DEAD WRAPS PER DRUM OR LAGGING.	

REFER TO DRUM AND LAGGING CHART NO. 6118-A.

7877-A, 6-6-97/L