

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

M-250

**LIFTCRANE - BOOM NO. 44 WITH 5' (1524 mm) TOP
FOLD UNDER LUFFING JIB NO. 133A ATTACHED**

M-250 SERIES 2

WIRE ROPE LENGTHS				
BOOM LENGTH		HOIST LINE RIGHT REAR DRUM		MAXIMUM REQUIRED
FT.	METERS	FT.	METERS	PARTS OF LINE
85	25.9	1025	312	10
95	29.0	1150	351	10
105	32.0	1250	381	10
115	35.1	1375	419	10
125	38.1	1375	419	9
135	41.1	1450	442	9
145	44.2	1450	442	8
155	47.2	1475	450	8
165	50.3	1475	450	7

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
MAXIMUM LOAD-LBS.	30,000	60,000	90,000	120,000	150,000
MAXIMUM LOAD-kg	13 610	27 220	40 820	54 430	68 040
NO. PARTS OF LINE	6	7	8	9	10
MAXIMUM LOAD-LBS.	180,000	210,000	240,000	270,000	300,000
MAXIMUM LOAD-kg	81 650	95 250	108 860	122 470	136 000
HOIST LINE: 1-1/8" (28.6 mm) - BRIDON DYFORM - 34LR - 1 960 N/mm ² WIRE ROPE MINIMUM BREAKING STRENGTH 154,900 LBS. (70 260 kg) MEC 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 ² WIRE ROPE MINIMUM BREAKING STRENGTH 154,700 LBS. (70 170 kg) MEC PART NO. 719374 APPROX. WEIGHT = 2.85 LBS. PER FT. (4.25 kg/m) RIGGING WINCH LINE: 3/8" (9.5 mm) - 6 X 19 FILLER WIRE, IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MEC PART NO. 719019 MINIMUM BREAKING STRENGTH 13,100 LBS. (5 940 kg) RECOMMENDED LENGTH = 800' (244m)					

MAXIMUM SPOOLING CAPACITIES	
RIGHT REAR DRUM: (HOIST LINE)	1-1/8" (28.6 mm) WIRE ROPE - 8 LAYERS - 2,411' (735m) 2,566' (782m) WITH 24-1/2" (622 mm) DIA. LAGGING
LEFT REAR DRUM: (WHIP LINE)	1-1/8" (28.6 mm) WIRE ROPE - 9 LAYERS - 1,173' (358m) 8 LAYERS - 1,068' (326m) 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
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. SEE CHART NO. 7787-A FOR WHIP LINE SPECIFICATIONS.