#### MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS\_\_\_\_\_M-250 SERIES

LIFTCRANE - LUFFING JIB NO. 133 OR NO. 133A ON BOOM NO. 44 WITH HEAVY LIFT TOP

WIRE ROPE LENGTHS									
BOOM AND LUFFING JIB		LUFFING JIB WHIP LINE LEFT REAR DRUM		LUFFING JIB HOIST LINE RIGHT REAR DRUM WHEN EQUIPPED WITH SPLIT REAR DRUMS FRONT DRUM WHEN EQUIPPED WITH TANDEM DRUMS					
LENGTH		1 PART		3 PART		2 PART			
FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS		
320	97.5	680	207	1325	404	l	<b>i</b>		
330	100.6	700	213	1375	419	l			
340	103.6	720	219	1400	427				
350	106.7	740	226	1450	442	1100	335		
360	109.7	760	232	1475	450	1125	343		
370	112.8	780	238			1150	351		
380	115.8	800	244			1175	358		
390	118.9	820	250			1200	366		
400	121.9	840	256			1225	373		
410	125.0	860	262			1250	381		
420	128.0	880	268			1275	389		
430	131.1	900	274			1300	396		
440	134.1	920	280			1325	404		
450	137.2	940	287			1350	411		

HOIST LINE AND WHIP 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. MAXIMUM HOOK TRAVEL FOR LUFFING JIB APPLICATION MAY BE RESTRICTED WHEN WIRE ROPE LENGTH EXCEEDS 1.350' (411m) USING LEFT REAR DRUM WITHOUT LAGGING OR WHEN WIRE ROPE LENGTH EXCEEDS 1.250' (381m) USING 24-1/2" (622 mm) DIA. LAGGING ON LEFT REAR DRUM.

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## WIRE ROPE SPECIFICATIONS

M-250 SERIES 2

LIFTCRANE - LUFFING JIB NO. 133 OR NO. 133A ON BOOM NO. 44 WITH HEAVY LIFT TOP

	HOIST REEV	VING FOR MAIN LOAD	D BLOCK		
	NO. PARTS OF LINE	1	2	3	
	MAXIMUM LOAD-LBS. MAXIMUM LOAD-kg	30,000 13 610	60,000 27 220	90,000 40 800	
HOIST LINE:	1-1/8° (29 mm) -	6 X 31 WARRINGTO REGULAR LAY, IWA MINIMUM BREAKING APPROX. WEIGHT =	RC. 5 STRENGTH 13	80,000 LBS.	(58 970 kg)
	28 mm (1-1/8") - (OPTIONAL)	BRIDON DYFORM - MINIMUM BREAKING APPROX. WEIGHT = MEC DEAD END LOC	STRENGTH 15 2.53 LBS. F	2,040 LBS. PER FT. (3.76	(68 960 kg) 6 kg/m)
	28 mm (1-1/8") - (OPTIONAL)	CASAR EUROLIFT - MINIMUM BREAKING APPROX. WEIGHT = MEC DEAD END LOC	STRENGTH 15 2.67 LBS. P	58,260 LBS. ( PER FT. (3.97	7 kg/m)
WHIP LINE:	1-1/8° (29 mm) -	6 X 31 WARRINGTO REGULAR LAY, IWR MINIMUM BREAKING MAXIMUM LOAD = 3 APPROX. WEIGHT =	C. STRENGTH 13 0,000 LBS. (	0,000 LBS. ( 13 610 kg) F	58 970 kg) PER LINE
	28 mm (1-1/8") - (OPTIONAL)	BRIDON DYFORM - MINIMUM BREAKING MAXIMUM LOAD = 3 APPROX. WEIGHT = MEC DEAD END LOC	STRENGTH 15 0,000 LBS. ( 2.53 LBS. P	2,040 LBS. ( 13 610 kg) F ER FT. (3.76	68 960 kg) PER LINE 6 kg/m)
	28 mm (1-1/8") - (OPTIONAL)	CASAR EUROLIFT - MINIMUM BREAKING MAXIMUM LOAD = 3 APPROX. WEIGHT = MEC DEAD END LOC	STRENGTH 15 0,000 LBS. { 2.67 LBS. P	8,260 LBS. ( 13 610 kg) F ER FT. (3.97	PER LINE 'kg/m)
RIGGING WINCH LINE:	3/8* (9.5 mm) -	6 X 19 FILLER WI REGULAR LAY, IWR MINIMUM BREAKING RECOMMENDED LENG	C. STRENGTH 13	,100 LBS. (5	

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### M-250 SERIES WIRE ROPE SPECIFICATIONS.

LIFTCRANE - LUFFING JIB NO. 133 OR NO. 133A ON BOOM NO. 44 WITH HEAVY LIFT TOP

MAXIMUM SPOOLING CAPACITIES						
RIGHT REAR DRUM: (HOIST LINE)	1-1/8" (29 mm) WIRE ROPE - 8 LAYERS - 2,411' (735m) 2,566' (782m) WITH 24-1/2" (622 mm) DIA. LAGGIN					
	28 mm (1-1/8°) WIRE ROPE - 8 LAYERS - 2.459' (750m) 2,618' (798m) WITH 24-1/2° (622 mm) DIA. LAGGIN					
LEFT REAR DRUM: (WHIP LINE)	1-1/8" (29 mm) WIRE ROPE - 9 LAYERS - 1,173" (358m) 8 LAYERS - 1,068" (326m) WITH 24-1/2" (622 mm) DIA. LAGGIN					
	28 mm (1-1/8°) WIRE ROPE - 9 LAYERS - 1.196′ (365m) 8 LAYERS - 1,090′ (332m) WITH 24-1/2° (622 mm) DIA. LAGGIN					
FRONT DRUM: (WHIP LINE)	1-1/8" (29 mm) WIRE ROPE - 8 LAYERS - 2,411' (735m) 2,566' (782m) WITH 24-1/2" (622 mm) DIA. LAGGIN					
	28 mm (1-1/8°) WIRE ROPE - 8 LAYERS - 2.459' (750m) 2.618' (798m) WITH 24-1/2° (622 mm) DIA. LAGGIN					

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