

MANITOWOC ENGINEERING CO.

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

**WIRE ROPE SPECIFICATIONS****M-250T****LIFT CRANE - LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44A WITH HEAVY LIFT TOP**

WIRE ROPE LENGTHS													
BOOM AND LUFFING JIB LENGTH		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									
				1 PART		6 PART		5 PART		4 PART		3 PART	
FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS
150	45.7	340	104	1125	343								
160	48.8	360	110	1200	366								
170	51.8	380	116	1250	381								
180	54.9	400	122	1325	404								
190	57.9	420	128	1400	427	1200	366						
200	61.0	440	134	1475	450	1275	389						
210	64.0	460	140	1550	472	1325	404						
220	67.1	480	146	1600	488	1375	419	1175	358				
230	70.1	500	152	1675	511	1450	442	1225	373				
240	73.2	520	158	---	---	1500	457	1275	389				
250	76.2	540	165	---	---	1550	472	1300	396	1050	320		
260	79.2	560	171	---	---	1625	495	1350	411	1100	335		
270	82.3	580	177	---	---	1675	511	1400	427	1125	343		
280	85.3	600	183	---	---	1750	533	1450	442	1175	358		
290	88.4	620	189	---	---	---	---	1500	457	1225	373		
300	91.4	640	195	---	---	---	---	1550	472	1250	381		
310	94.5	660	201	---	---	---	---	1600	488	1300	396		
320	97.5	680	207	---	---	---	---	---	---	1325	404		
330	100.6	700	213	---	---	---	---	---	---	1375	419		
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

NOTE: 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.

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

M-250T

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

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	81 600
 HOIST LINE: 1-1/8" (29 mm) - 6 X 31 WARRINGTON-SEALE, EXTRA IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 130,000 LBS. (58 970 kg) APPROX. WEIGHT = 2.34 LBS. PER FT. (3.48 kg/m)						
28 mm (1-1/8") - BRIDON DYFORM - 34LR WIRE ROPE, RIGHT HAND REG LAY (OPTIONAL) MINIMUM BREAKING STRENGTH 152,040 LBS. (68 960 kg) APPROX. WEIGHT = 2.53 LBS. PER FT. (3.76 kg/m) MEC DEAD END LOCKING SWIVEL NO. 175518 REQUIRED.						
28 mm (1-1/8") - CASAR EUROLIFT - 1 960 N/mm ² WIRE ROPE (OPTIONAL) MINIMUM BREAKING STRENGTH 158,260 LBS. (71 790 kg) APPROX. WEIGHT = 2.67 LBS. PER FT. (3.97 kg/m) MEC DEAD END LOCKING SWIVEL NO. 175518 REQUIRED.						
 WHIP LINE: 1-1/8" (29 mm) - 6 X 31 WARRINGTON-SEALE, EXTRA IMPROVED PLOW STEEL, REGULAR LAY, IWRC. 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)						
28 mm (1-1/8") - BRIDON DYFORM - 34LR WIRE ROPE, RIGHT HAND REG LAY (OPTIONAL) MINIMUM BREAKING STRENGTH 152,040 LBS. (68 960 kg) MAXIMUM LOAD = 30,000 LBS. (13 610 kg) PER LINE APPROX. WEIGHT = 2.53 LBS. PER FT. (3.76 kg/m) MEC DEAD END LOCKING SWIVEL NO. 175518 REQUIRED.						
28 mm (1-1/8") - CASAR EUROLIFT - 1 960 N/mm ² WIRE ROPE (OPTIONAL) MINIMUM BREAKING STRENGTH 158,260 LBS. (71 790 kg) MAXIMUM LOAD = 30,000 LBS. (13 610 kg) PER LINE APPROX. WEIGHT = 2.67 LBS. PER FT. (3.97 kg/m) MEC DEAD END LOCKING SWIVEL NO. 175518 REQUIRED.						
 RIGGING WINCH LINE: 3/8" (9.5 mm) - 6 X 19 FILLER WIRE, IMPROVED PLOW STEEL, REGULAR LAY, IWRC. MINIMUM BREAKING STRENGTH 13,100 LBS. (5 940 kg) RECOMMENDED LENGTH = 800' (244m)						

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

M-250T

LIFT CRANE - LUFFING JIB NO. 133 OR NO. 133A ON
BOOM NO. 44A 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. LAGGING
	28 mm (1-1/8") WIRE ROPE - 8 LAYERS - 2,459' (750m) 2,618' (798m) WITH 24-1/2" (622 mm) DIA. LAGGING
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. LAGGING
	28 mm (1-1/8") WIRE ROPE - 9 LAYERS - 1,196' (365m) 8 LAYERS - 1,090' (332m) WITH 24-1/2" (622 mm) DIA. LAGGING
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. LAGGING
	28 mm (1-1/8") WIRE ROPE - 8 LAYERS - 2,459' (750m) 2,618' (798m) 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.