

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

M-250T

LIFT CRANE - BOOM NO. 44A WITH HEAVY LIFT TOP

WIRE ROPE LENGTHS												
BOOM OR BOOM AND JIB LENGTH		WHIP LINE LEFT REAR OR FRONT DRUM								HOIST LINE RIGHT REAR DRUM		MAXIMUM REQUIRED PARTS OF LINE
		1 PART		2 PART		3 PART		4 PART				
FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	FT.	METERS	
70	21.3	190	58	275	84					1475	450	18
80	24.4	210	64	300	91					1650	503	18
90	27.4	230	70	325	99					1750	533	17
100	30.5	250	76	350	107					1825	556	16
110	33.5	270	82	375	114					1875	572	15
120	36.6	290	88	425	130					2025	617	15
130	39.6	310	94	450	137	2050	625	14				
140	42.7	330	101	475	145	2075	632	13				
150	45.7	350	107	500	152	2075	632	12				
160	48.8	370	113	525	160	2175	663	12				
170	51.8	390	119	575	175	725	221	925	282	2175	663	11
180	54.9	410	125	600	183	775	236	975	297	2250	686	11
190	57.9	430	131	625	191	825	251	1025	312	2250	686	10
200	61.0	450	137	650	198	850	259	1075	328	2275	693	10
210	64.0	470	143	675	206	900	274	1125	343	2275	693	9
220	67.1	490	149	725	221	925	282	1175	358	2275	693	9
230	70.1	510	155	750	229	975	297	1225	373	2275	693	8
240	73.2	530	162	775	236	1025	312	1270	387	2275	693	7
250	76.2	550	168	800	244	1050	320	----	---	2275	693	7
260	79.2	570	174	825	251	1100	335	----	---	2275	693	7
270	82.3	590	180	850	259	1125	343	----	---	2275	693	6
280	85.3	610	186	900	274	1175	358	----	---	2275	693	6
290	88.4	630	192	925	282	1225	373	----	---	2275	693	5
300	91.4	650	198	950	290	1250	381	----	---	2275	693	5
310	94.5	660	201	975	297	----	---	----	---			
320	97.5	680	207	1000	305	----	---	----	---			
330	100.6	700	213	1025	312	----	---	----	---			
340	103.6	720	219	1075	328	----	---	----	---			
350	106.7	740	226	1100	335	----	---	----	---			

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 UPPER BOOM POINT APPLICATION MAY BE RESTRICTED WHEN WHIP LINE LENGTH EXCEEDS 1,170' (357m) USING 24-1/2" (622 mm) DIA. LAGGING ON LEFT REAR DRUM.

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**WIRE ROPE SPECIFICATIONS****M-250T****LIFTCRANE - 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	81 650
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	17	18
MAXIMUM LOAD-LBS.	390,000	420,000	450,000	480,000	510,000	600,000
MAXIMUM LOAD-kg	176 900	190 510	204 120	217 720	231 330	272 100
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") (OPTIONAL) - BRIDON DYFORM - 34LR WIRE ROPE, RIGHT HAND REG LAY 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") (OPTIONAL) - CASAR EUROLIFT - 1 960 N/mm² WIRE ROPE 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") (OPTIONAL) - BRIDON DYFORM - 34LR WIRE ROPE, RIGHT HAND REG LAY 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") (OPTIONAL) - CASAR EUROLIFT - 1 960 N/mm² WIRE ROPE 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)						

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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. 611B-A.