

MANITOWOC ENGINEERING CO.

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



WIRE ROPE SPECIFICATIONS

LIFTCRANE - BOOM NO. 22EL
LUFFING JIB NO. 135 ATTACHED

888 SERIES 1
888 SERIES 2

EUROPEAN STANDARDS

WIRE ROPE LENGTHS - FRONT DRUM									
BOOM LENGTH		ROTATION RESISTANT WIRE ROPE				NOT NON-TWISTING WIRE ROPE			
		HOIST LINE FRONT DRUM		888 SERIES 1 MAXIMUM REQUIRED	888 SERIES 2 MAXIMUM REQUIRED	HOIST LINE FRONT DRUM		888 SERIES 1 MAXIMUM REQUIRED	888 SERIES 2 MAXIMUM REQUIRED
		FT.	METERS	FT.	METERS	FT.	METERS	PARTS OF LINE	PARTS OF LINE
70	21.3	1175	358	13	14	1325	404	15	16
80	24.4	1225	373	11	13	1400	427	13	15
90	27.4	1275	389	9	12	1400	427	10	13
100	30.5	1300	396	8	11	1400	427	9	12
110	33.5	1300	396	7	9	1400	427	8	10
120	36.6	1300	396	7	9	1425	434	7	10
130	39.6	1300	396	6	8	1425	434	6	8
140	42.7	1300	396	5	7	1425	434	5	7
150	45.7	1300	396	5	7	1425	434	5	7
160	48.8	1300	396	5	6	1425	434	5	6
170	51.8	1300	396		6	1425	434		6
180	54.9	1300	396		5	1425	434		5
190	57.9	1300	396		4	1425	434		4

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. SEE TABLES ON PAGE 2 FOR AUXILIARY DRUM APPLICATION.

HOIST REEVING FOR MAIN LOAD BLOCK - ROTATION RESISTANT WIRE ROPE - FRONT DRUM							
NO. PARTS OF LINE	1	2	3	4	5	6	7
MAXIMUM LOAD-LBS.	29,500	59,000	88,500	118,000	147,500	177,000	206,500
MAXIMUM LOAD-kg	13 380	26 760	40 140	53 520	66 900	80 290	93 670
NO. PARTS OF LINE	8	9	10	11	12	13	14
MAXIMUM LOAD-LBS.	236,000	265,500	295,000	324,500	354,000	383,500	391,100
MAXIMUM LOAD-kg	107 050	120 430	133 810	147 190	160 570	173 950	177 300

HOIST REEVING FOR MAIN LOAD BLOCK - NOT NON-TWISTING WIRE ROPE - FRONT DRUM								
NO. PARTS OF LINE	1	2	3	4	5	6	7	8
MAXIMUM LOAD-LBS.	29,300	58,100	86,300	114,000	141,100	167,700	193,700	219,200
MAXIMUM LOAD-kg	13 290	26 350	39 140	51 710	64 000	76 070	87 860	99 430
NO. PARTS OF LINE	9	10	11	12	13	14	15	16
MAXIMUM LOAD-LBS.	244,200	268,700	292,700	316,200	339,300	361,900	384,000	391,100
MAXIMUM LOAD-kg	110 770	121 880	132 770	143 430	153 900	164 160	174 180	177 300

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WIRE ROPE LENGTHS - AUXILIARY DRUM					
BOOM LENGTH		ROTATION RESISTANT OR NOT NON-TWISTING WIRE ROPE			
		HOIST LINE AUXILIARY DRUM		888 SERIES 1 MAXIMUM REQUIRED	888 SERIES 2 MAXIMUM REQUIRED
		FT.	METERS	PARTS OF LINE	PARTS OF LINE
80	24.4	1500	457	16	16
90	27.4	1650	503	14	16
100	30.5	1825	556	12	16
110	33.5	1825	556	10	13
120	36.6	1825	556	10	13
130	39.6	1825	556	9	11
140	42.7	1825	556	8	10
150	45.7	1825	556	7	10
160	48.8	1825	556	6	8
170	51.8	1825	556		8
180	54.9	1825	556		7
190	57.9	1825	556		4

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. MAXIMUM BLOCK TRAVEL WILL BE RESTRICTED WHEN HOIST LINE LENGTH EXCEEDS 1,600' (488m) USING AUXILIARY DRUM. AUXILIARY DRUM CAN NOT BE USED WITH 70' BOOM LENGTH.

CAPACITY CHART RESTRICTIONS WILL OCCUR WHEN AUXILIARY DRUM IS USED. MAXIMUM CAPACITY IS 320,000 LBS. (145 150 kg) WITH 16 PARTS LINE.

HOIST REEVING FOR MAIN LOAD BLOCK - AUXILIARY DRUM								
NO. PARTS OF LINE	1	2	3	4	5	6	7	8
MAXIMUM LOAD-LBS.	20,000	40,000	60,000	80,000	100,000	120,000	140,000	160,000
MAXIMUM LOAD-kg	9 070	18 140	27 220	36 290	45 360	54 430	63 500	72 570
NO. PARTS OF LINE	9	10	11	12	13	14	15	16
MAXIMUM LOAD-LBS.	180,000	200,000	220,000	240,000	260,000	280,000	300,000	320,000
MAXIMUM LOAD-kg	81 650	90 720	99 790	108 860	117 930	127 010	136 080	145 150

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WIRE ROPE SPECIFICATIONS	
ROTATION RESISTANT WIRE ROPE - 4.5 :1 SAFETY FACTOR	
HOIST LINE:	26 mm - 2 160 N/mm ² WIRE ROPE (MEC PART NO. 719379) MINIMUM BREAKING STRENGTH = 161,070 LBS. (716.5 kN) APPROX. WEIGHT = 2.13 LBS. PER FT. (3.17 kg/m)
NOT NON-TWISTING WIRE ROPE - 3.55 :1 SAFETY FACTOR	
HOIST LINE:	26 mm - 6 X 25 FILLER WIRE, EXTRA IMPROVED PLOW STEEL, RIGHT REGULAR LAY, IWRC (MEC PART NO. 719387) MINIMUM BREAKING STRENGTH 108,600 LBS. (483.1 kN) APPROX. WEIGHT = 1.94 LBS. PER FT. (2.89 kg/m)

NOTE: BLOCK SPIN MAY OCCUR WITH 6 X 25 CONSTRUCTION WIRE ROPE UNDER CERTAIN OPERATING CONDITIONS.

MAXIMUM SPOOLING CAPACITIES	
FRONT DRUM: (HOIST LINE)	26 mm WIRE ROPE - 7 LAYERS - 1,609' (490m) 7 LAYERS - 1,716' (523m) WITH 21-1/4" (540 mm) DIA. LAGGING
AUXILIARY DRUM: (HOIST LINE)	26 mm WIRE ROPE - 6 LAYERS - 1,323' (403m) 6 LAYERS - 1,415' (431m) WITH 21-1/4" (540 mm) DIA. LAGGING
17' (5m) IS DEDUCTED FROM MAXIMUM SPOOLING CAPACITIES FOR 3 DEAD WRAPS PER DRUM OR LAGGING.	

REFER TO DRUM AND LAGGING CHART NO. 6119-A.