



WIRE ROPE SPECIFICATIONS
LIFTCRANE - BOOM NO. 22EL

888 SERIES 1
888 SERIES 2

EUROPEAN STANDARDS

WIRE ROPE LENGTHS											
BOOM OR BOOM AND JIB LENGTH		WHIP LINE FRONT OR AUXILIARY DRUM				ROTATION RESISTANT WIRE ROPE			NOT NON-TWISTING WIRE ROPE		
		1 PART		2 PART		HOIST LINE REAR DRUM	MAXIMUM REQUIRED PARTS OF LINE	HOIST LINE REAR DRUM	MAXIMUM REQUIRED PARTS OF LINE		
		FT.	METERS	FT.	METERS					FT.	METERS
70	21.3	180	55	270	82	1250	381	15	1325	404	16
80	24.4	200	61	300	91	1325	404	14	1500	457	16
90	27.4	220	67	330	101	1375	419	13	1550	472	15
100	30.5	240	73	360	110	1400	427	12	1625	495	14
110	33.5	260	79	390	119	1400	427	10	1625	495	12
120	36.6	280	85	420	128	1425	434	10	1625	495	11
130	39.6	300	91	450	137	1425	434	9	1625	495	10
140	42.7	320	98	480	146	1425	434	8	1625	495	9
150	45.7	340	104	500	152	1425	434	8	1625	495	8
160	48.8	360	110	530	162	1425	434	7	1625	495	7
170	51.8	380	116	560	171	1425	434	7	1625	495	7
180	54.9	400	122	590	180	1425	434	6	1625	495	7
190	57.9	420	128	620	189	1425	434	6	1625	495	6
200	61.0	440	134	650	198	1475	450	6	1625	495	6
210	64.0	460	140	680	207	1475	450	5	1625	495	5
220	67.1	480	146	710	216	1475	450	5	1625	495	5
230	70.1	500	152	740	226	1475	450	5	1625	495	5
240	73.2	520	158	770	235	1475	450	4	1625	495	4
250	76.2	540	165	800	244	1475	450	4	1625	495	4
260	79.2	560	171	830	253	1475	450	4	1625	495	4
270	82.3	580	177	860	262	1475	450	4	1625	495	4
280	85.3	600	183	890	271	1475	450	3	1625	495	3
290	88.4	620	189	920	280	1475	450	3	1625	495	3
300	91.4	640	195	950	290						
310	94.5	660	201	980	299						
320	97.5	680	207	1010	308						
330	100.6	700	213	1040	317						

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.

HOIST REEVING FOR MAIN LOAD BLOCK - ROTATION RESISTANT								
NO. PARTS OF LINE	1	2	3	4	5	6	7	8
MAXIMUM LOAD-LBS.	29,500	59,000	88,500	118,000	147,500	177,000	206,500	236,000
MAXIMUM LOAD-Kg	13,380	26,760	40,140	53,520	66,900	80,290	93,670	107,050
NO. PARTS OF LINE	9	10	11	12	13	14	15	
MAXIMUM LOAD-LBS.	265,500	295,000	324,500	354,000	383,500	413,000	441,000	
MAXIMUM LOAD-Kg	120,430	133,810	147,190	160,570	173,950	187,330	200,000	

HOIST REEVING FOR MAIN LOAD BLOCK - NOT NON-TWISTING								
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	441,000
MAXIMUM LOAD-Kg	110,770	121,880	132,770	143,430	153,900	164,160	174,180	200,000

MAXIMUM SPOOLING CAPACITIES	
REAR 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
FRONT DRUM: (WHIP LINE)	26 mm WIRE ROPE - 7 LAYERS - 1,609' (490m) 7 LAYERS - 1,716' (523m) WITH 21-1/4" (540 mm) DIA. LAGGING 4 LAYERS - 1,061' (323m) WITH 27" (686 mm) DIA. LAGGING
AUXILIARY DRUM: (WHIP 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) (22' (7m) WITH 27" (686 mm) DIA. LAGGING) IS DEDUCTED FROM MAXIMUM SPOOLING CAPACITIES FOR 3 DEAD WRAPS PER DRUM OR LAGGING.	



WIRE ROPE SPECIFICATIONS

LIFTCRANE - BOOM NO. 22EL

888 SERIES 1
888 SERIES 2

EUROPEAN STANDARDS

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) MAXIMUM CAPACITY WITH 15 PARTS HOIST LINE = 441,000 LBS. (200 000 kg) APPROX. WEIGHT = 2.13 LBS. PER FT. (3.17 kg/m)
WHIP LINE:	26 mm - 2 160 N/mm ² WIRE ROPE (MEC PART NO. 719379) MINIMUM BREAKING STRENGTH = 161,070 LBS. (716.5 kN) MAXIMUM LOAD = 29,500 LBS. (13 380 kg) PER LINE APPROX. WEIGHT = 2.13 LBS. PER FT. (3.17 kg/m)
WHIP LINE: (AUX. DRUM)	26 mm - 1 960 N/mm ² WIRE ROPE (MEC PART NO. 719378) MINIMUM BREAKING STRENGTH = 146,200 LBS. (650.6 kN) MAXIMUM LOAD = 20,000 LBS. (9 070 kg) PER LINE 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) MAXIMUM CAPACITY WITH 16 PARTS HOIST LINE = 405,700 LBS. (184 020 kg) APPROX. WEIGHT = 1.94 LBS. PER FT. (2.89 kg/m)
WHIP 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) MAXIMUM LOAD = 29,300 LBS. (13 290 kg) PER LINE APPROX. WEIGHT = 1.94 LBS. PER FT. (2.89 kg/m)
WHIP LINE: (AUX. DRUM)	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) MAXIMUM LOAD = 20,000 LBS. (9 070 kg) PER LINE APPROX. WEIGHT = 1.94 LBS. PER FT. (2.89 kg/m)
WIRE ROPE REQUIRED FOR 441,000 LB. (200 000 kg) MAXIMUM CAPACITY WITH 16 PARTS OF LINE	
HOIST LINE:	26 mm - 6 X 25 FILLER WIRE, EXTRA EXTRA IMPROVED PLOW STEEL, RIGHT REGULAR LAY, IWRC (MEC PART NO. 719383) MINIMUM BREAKING STRENGTH 119,400 LBS. (54 160 kg) APPROX. WEIGHT = 1.94 LBS. PER FT. (2.70 kg/m)

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