Wire Rope Specifications

MLC650
VPC-MAX

Jib No. FJ10:687 on
Boom No. B90:686-685-680-681-682
with Mast No. M11:684

Maximum Required Parts of Line - Tandem Hoist Drums								
Boom Length		Jib Length Meters (Feet)						
Meters	Feet	12,0 (39.4)	15,0 (49.2)	18,0 (59.1)	21,0 (68.9)	24,0 (78.7)	27,0 (88.6)	30,0 (98.4)
78,0	255.9	10	10	10	10	10	8	8
90,0	295.3	10	10	10	10	8	8	8
102,0	334.6	10	10	10	8	8	8	8
114,0	374.0	10	10	10	8	8	8	8
117,0	383.9	10	10	10	10	8	8	8
120,0	393.7	10	10	10	10	8	8	8
123,0	403.5	10	10	8	8	8	8	8

Maximum Required Parts of Line - Single Hoist Drum								
Boom Length		Jib Length Meters (Feet)						
Meters	Feet	12,0 (39.4)	15,0 (49.2)	18,0 (59.1)	21,0 (68.9)	24,0 (78.7)	27,0 (88.6)	30,0 (98.4)
78,0	255.9	8	8	8	8	8	8	8
90,0	295.3	8	8	8	8	8	8	7
102,0	334.6	8	8	8	8	8	7	7
114,0	374.0	8	7	7	7	7	7	6
117,0	383.9	7	7	7	7	7	6	6
120,0	393.7	7	7	7	7	6	6	6
123,0	403.5	7	7	7	6	6	6	6

Wire Rope Specifications

MLC650
VPC-MAX

Jib No. FJ10:687 on
Boom No. B90:686-685-680-681-682
with Mast No. M11:684

Wire Rope Lengths - Tandem Hoist Drums (includes all Jib lengths)					
Boom Length		Hoist Line Drum 1		Hoist Line Drum 2	
Meters	Feet	Meters	Feet	Meters	Feet
78,0	255.9	650	2,130	650	2,130
90,0	295.3	680	2,230	680	2,230
102,0	334.6	730	2,380	730	2,380
114,0	374.0	805	2,630	805	2,630
117,0	383.9	820	2,690	820	2,690
120,0	393.7	840	2,740	840	2,740
123,0	403.5	840	2,740	840	2,740

Note: Above hoist line lengths are based on tandem drums both reeved to main load block. Each drum is dead ended in main load block reeving. Total parts of line requires using both Drums 1 and 2. Hoist line lengths 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 - Two Lead Lines					
No. Parts of Line	2	4	6	8	10
Maximum Load - kg	44 260	88 520	132 780	177 040	221 300
Maximum Load - lb	97,600	195,200	292,800	390,400	488,000
Maximum Load per Part of Line - kg	22 130	22 130	22 130	22 130	22 130
Maximum Load per Part of Line - lb	48,800	48,800	48,800	48,800	48,800

Wire Rope Specifications

MLC650
VPC-MAX

Jib No. FJ10:687 on
Boom No. B90:686-685-680-681-682
with Mast No. M11:684

Wire Rope Lengths - Single Hoist Drums (includes all Jib lengths)							
Boom Length		Whip Line Drum 1 or 2 or 3				Hoist Line Drum 1 or 2	
		1 Part		2 Part			
Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
78,0	255.9	225	740	335	1,100	1 005	3,300
90,0	295.3	250	820	370	1,220	1 060	3,480
102,0	334.6	270	890	410	1,350	1 135	3,720
114,0	374.0	295	970	445	1,460	1 135	3,720
117,0	383.9	305	1,000	450	1,480	1 135	3,720
120,0	393.7	310	1,020	460	1,510	1 135	3,720
123,0	403.5	315	1,030	470	1,540	1 135	3,720

Note: Above hoist line lengths are based on single part lead line. Hoist and whip line lengths 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.

Wire Rope Specifications

MLC650
VPC-MAX

Jib No. FJ10:687 on
Boom No. B90:686-685-680-681-682
with Mast No. M11:684

Hoist Reeving for Main Load Block - Single Lead Lines				
No. Parts of Line	1	2	3	4
Maximum Load - kg	22 130	44 260	66 390	88 520
Maximum Load - lb	48,800	97,600	146,400	195,200
Maximum Load per Part of Line - kg	22 130	22 130	22 130	22 130
Maximum Load per Part of Line - lb	48,800	48,800	48,800	48,800
No. Parts of Line	5	6	7	8
Maximum Load - kg	110 650	132 780	154 910	177 040
Maximum Load - lb	244,000	292,800	341,600	390,400
Maximum Load per Part of Line - kg	22 130	22 130	22 130	22 130
Maximum Load per Part of Line - lb	48,800	48,800	48,800	48,800

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 3)		
No. Parts of Line	1	2
Maximum Load - kg	13 600	27 200
Maximum Load - lb	30,000	60,000
Maximum Load per Part of Line - kg	13 600	13 600
Maximum Load per Part of Line - lb	30,000	30,000

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 1 or 2)		
No. Parts of Line	1	2
Maximum Load - kg	22 100	33 300
Maximum Load - lb	48,800	73,500
Maximum Load per Part of Line - kg	22 100	16 650
Maximum Load per Part of Line - lb	48,800	36,750

Manitowoc Cranes
Manitowoc, Wisconsin 54220 U.S.A.

Wire Rope Specifications

MLC650
VPC-MAX

Jib No. FJ10:687 on
Boom No. B90:686-685-680-681-682
with Mast No. M11:684

Wire Rope Specifications
Rotation Resistant Wire Rope **Hoist or Whip Line**: **32 mm** (Drum 1 & 2): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 110 680 kg (244,000 lb) Approx. Weight = 5,6 kg/m (3.7 lb/ft) **Whip Line:** **28 mm** (Drum 3): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 72 580 kg (160,000 lb) Approx. Weight = 3,9 kg/m (2.6 lb/ft)

Maximum Spooling Capacities	
Drum 1: (Hoist or Whip Line)	32 mm Wire Rope - 10 Layers - 1 100 m (3,608 ft)
Drum 2: (Hoist or Whip Line)	32 mm Wire Rope - 10 Layers - 1 100 m (3,608 ft)
Drum 3: (Whip Line)	28 mm Wire Rope - 8 Layers - 579 m (1,900 ft)
7 m (22 ft) is deducted from maximum spooling capacity for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 9351-A** and Load Block Reeving in the Operator Manual.

Refer to Block Overhaul Weights chart **No. 9409-A** for minimum weight required for block lowering.