

# Wire Rope Specifications

## MLC250

Luffing Jib No. 149 on  
Boom No. B10:82A

**Maximum Required Parts of Line - Drum 1**

Boom Length		Luffing Jib Length Meters (Feet)																	
Meters	Feet	21,3 (70.0)	24,4 (80.0)	27,4 (90.0)	30,5 (100.0)	33,5 (110.0)	36,6 (120.0)	39,6 (130.0)	42,7 (140.0)	45,7 (150.0)	48,8 (160.0)	51,8 (170.0)	54,9 (180.0)	57,9 (190.0)	61,0 (200.0)	64,0 (210.0)	67,1 (220.0)	70,1 (230.0)	73,2 (240.0)
24,4	80.0	6	6	6	5	5	5	4	4	4	3	3	3	3	2	2	2	2	2
27,4	90.0	6	6	6	6	5	5	4	4	4	3	3	3	3	2	2	2	2	2
30,5	100.0	6	5	5	5	4	4	4	3	3	3	3	3	2	2	2	2	2	2
33,5	110.0	6	5	5	5	4	4	4	3	3	3	3	3	2	2	2	2	2	2
36,6	120.0	6	5	5	5	4	4	4	3	3	3	3	3	2	2	2	2	2	2
39,6	130.0	5	5	5	4	4	4	4	3	3	3	3	2	2	2	2	2	2	1
42,7	140.0	5	5	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1
45,7	150.0	5	5	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1
48,8	160.0	5	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1
51,8	170.0	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1
54,9	180.0	4	4	4	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1
57,9	190.0	4	4	3	3	3	3	2	2	2	2	2	2	2	2	2	—	—	—
61,0	200.0	4	3	3	3	3	2	2	2	2	2	—	—	—	—	—	—	—	—

**Maximum Required Parts of Line - Drum 3**

Boom Length		Luffing Jib Length Meters (Feet)																	
Meters	Feet	21,3 (70.0)	24,4 (80.0)	27,4 (90.0)	30,5 (100.0)	33,5 (110.0)	36,6 (120.0)	39,6 (130.0)	42,7 (140.0)	45,7 (150.0)	48,8 (160.0)	51,8 (170.0)	54,9 (180.0)	57,9 (190.0)	61,0 (200.0)	64,0 (210.0)	67,1 (220.0)	70,1 (230.0)	73,2 (240.0)
24,4	80.0	5	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2
27,4	90.0	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	1
30,5	100.0	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1
33,5	110.0	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1
36,6	120.0	4	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1
39,6	130.0	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1
42,7	140.0	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1
45,7	150.0	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1
48,8	160.0	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
51,8	170.0	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
54,9	180.0	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
57,9	190.0	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	—	—	—
61,0	200.0	2	2	2	2	2	2	1	1	1	1	—	—	—	—	—	—	—	—

# Wire Rope Specifications

## MLC250

Luffing Jib No. 149 on  
Boom No. B10:82A

Wire Rope Lengths (includes all luffing jib lengths)					
Boom Length		Hoist Line Drum 1		Hoist Line Drum 3	
Meters	Feet	Meters	Feet	Meters	Feet
24,4	80.0	385	1260	300	982
27,4	90.0	427	1400	300	983
30,5	100.0	385	1260	300	984
33,5	110.0	406	1330	300	983
36,6	120.0	427	1400	300	984
39,6	130.0	421	1380	300	984
42,7	140.0	421	1380	301	985
45,7	150.0	442	1450	301	986
48,8	160.0	439	1440	301	987
51,8	170.0	427	1400	298	975
54,9	180.0	427	1400	298	976
57,9	190.0	427	1400	298	976
61,0	200.0	427	1400	298	977

**Note:** Hoist line lengths given in tables 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 Lengths - Single Hoist Drum (includes all luffing jib lengths)					
Boom Length		Whip Line - Drum 1 or 3 (front or Auxillary Drum)			
		2 Parts		1 Part	
Meters	Feet	Meters	Feet	Meters	Feet
24,4	80.0	300	990	200	660
27,4	90.0	310	1020	210	680
30,5	100.0	320	1050	215	700
33,5	110.0	330	1080	220	720
36,6	120.0	340	1110	225	740
39,6	130.0	350	1140	230	760
42,7	140.0	360	1170	240	780
45,7	150.0	365	1200	245	800
48,8	160.0	375	1230	250	820
51,8	170.0	385	1260	255	840
54,9	180.0	395	1290	265	860
57,9	190.0	375	1230	250	820
61,0	200.0	340	1115	230	745

# Wire Rope Specifications

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Hoist Reeving for Main Load Block - Single Lead Line (Drum 1)						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - kg	13 380	26 760	40 140	53 520	66 900	72 500
Maximum Load - lb	29,500	59,000	88,500	118,000	147,500	160,000
Maximum Load per Part of Line - kg	13 380	13 380	13 380	13 380	13 380	12 085
Maximum Load per Part of Line - lb	29,500	29,500	29,500	29,500	29,500	26,670

Hoist Reeving for Main Load Block - Single Lead Line (Drum 3)					
No. Parts of Line	1	2	3	4	5
Maximum Load - kg	9 070	18 140	27 210	36 280	45 350
Maximum Load - lb	20,000	40,000	60,000	80,000	100,000
Maximum Load per Part of Line - kg	9 070	9 070	9 070	9 070	9 070
Maximum Load per Part of Line - lb	20,000	20,000	20,000	20,000	20,000

**Warning:** Free fall operation with Drum 1 is limited to 6 710 kg (14,800 lb) per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power shall be used for full line pull. *Permanent brake damage could occur allowing the load to lower uncontrolled.*

Refer to Block Overhaul Weights chart **No. 9901-A** for minimum weight required for block lowering.

Refer to Wire Rope Attributes chart **No. 9910-A** for wire rope requirements.