

# Wire Rope Specifications

## MLC150-1

Jib No. 134 on  
Boom No. B10:350

Maximum Required Parts of Line - Drum 1							
Boom Length		Jib Length Meters (Feet)					
Meters	Feet	9,1 (30.0)	12,2 (40.0)	15,2 (50.0)	18,3 (60.0)	21,3 (70.0)	24,4 (80.0)
27,0	88.6	2	2	2	2	2	1
30,0	98.4	2	2	2	2	2	1
33,0	108.3	2	2	2	2	2	1
36,0	118.1	2	2	2	2	2	1
39,0	128.0	2	2	2	2	1	1
42,0	137.8	2	2	2	2	1	1
45,0	147.6	2	2	2	2	1	1
48,0	157.5	2	2	2	2	1	1
51,0	167.3	2	2	2	2	1	1
54,0	177.2	2	2	2	2	1	1
57,0	187.0	2	2	2	2	1	1
60,0	196.9	2	2	2	2	1	1
63,0	206.7	2	2	2	2	1	1
66,0	216.5	2	2	2	1	1	1

Maximum Required Parts of Line - Drum 2							
Boom Length		Jib Length Meters (Feet)					
Meters	Feet	9,1 (30.0)	12,2 (40.0)	15,2 (50.0)	18,3 (60.0)	21,3 (70.0)	24,4 (80.0)
27,0	88.6	2	2	2	2	2	1
30,0	98.4	2	2	2	2	2	1
33,0	108.3	2	2	2	2	2	1
36,0	118.1	2	2	2	2	2	1
39,0	128.0	2	2	2	2	1	1
42,0	137.8	2	2	2	2	1	1
45,0	147.6	2	2	2	2	1	1
48,0	157.5	2	2	2	2	1	1
51,0	167.3	2	2	2	2	1	1
54,0	177.2	2	2	2	2	1	1
57,0	187.0	2	2	2	2	1	1
60,0	196.9	2	2	2	2	1	1
63,0	206.7	2	2	2	1	1	1
66,0	216.5	2	2	1	1	1	1

# Wire Rope Specifications

## MLC150-1

Jib No. 134 on  
Boom No. B10:350

Maximum Required Parts of Line - Drum 3							
Boom Length		Jib Length Meters (Feet)					
Meters	Feet	9,1 (30.0)	12,2 (40.0)	15,2 (50.0)	18,3 (60.0)	21,3 (70.0)	24,4 (80.0)
27,0	88.6	2	2	2	2	2	1
30,0	98.4	2	2	2	2	2	1
33,0	108.3	2	2	2	2	2	1
36,0	118.1	2	2	2	2	2	1
39,0	128.0	2	2	2	2	1	1
42,0	137.8	2	2	2	1	1	1
45,0	147.6	2	2	1	1	1	1
48,0	157.5	2	1	1	1	1	1
51,0	167.3	1	1	1	1	1	1
54,0	177.2	1	1	1	1	1	1
57,0	187.0	1	1	1	1	1	1
60,0	196.9	1	1	1	1	1	1
63,0	206.7	1	1	1	1	1	1
66,0	216.5	1	1	1	1	1	1

Wire Rope Lengths - Single Hoist Drum (includes all jib lengths)							
Boom Length		Hoist Line Drum 1		Hoist Line Drum 2		Hoist Line Drum 3	
Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
27,0	88.6	160	520	160	520	160	510
30,0	98.4	170	550	170	550	165	540
33,0	108.3	175	570	180	580	175	570
36,0	118.1	185	600	185	600	185	600
39,0	128.0	185	600	185	600	185	600
42,0	137.8	195	630	195	630	185	600
45,0	147.6	205	660	205	660	185	600
48,0	157.5	215	690	215	690	185	600
51,0	167.3	220	720	220	720	160	520
54,0	177.2	230	750	230	750	165	540
57,0	187.0	240	780	240	780	175	560
60,0	196.9	250	810	250	810	180	580
63,0	206.7	260	840	250	810	185	600
66,0	216.5	260	840	250	810	190	620

**Note:** Hoist 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.

# Wire Rope Specifications

## MLC150-1

Jib No. 134 on  
Boom No. B10:350

Hoist Reeving for Main Load Block - Single Lead Line (Drum 1 or 2)		
No. Parts of Line	1	2
Maximum Load - kg	13 430	26 860
Maximum Load - lb	29, 600	59,200
Maximum Load per Part of Line - kg	13 430	13 430
Maximum Load per Part of Line - lb	29, 600	29,600

Hoist Reeving for Main Load Block - Single Lead Line (Drum 3)		
No. Parts of Line	1	2
Maximum Load - kg	9 070	18 140
Maximum Load - lb	20,000	40,000
Maximum Load per Part of Line - kg	9 070	9 070
Maximum Load per Part of Line - lb	20,000	20,000

REFERENCE ONLY

# Wire Rope Specifications

## MLC150-1

Jib No. 134 on  
Boom No. B10:350

Wire Rope Specifications
<p><u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u></p> <p><b>Hoist Line:</b> <b>26 mm</b> (Drum 1): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 67 130 kg (148,000 lb) Approx. Weight = 3,41 kg/m (2.28 lb/ft) No Load Dia = 26,44 mm (1.041 in) to 26,78 mm (1.054 in) Ref: 80123747, 80120441</p> <p><b>Whip / Auxiliary Line:</b> <b>26 mm</b> (Drum 2 or Drum 3): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 67 130 kg (148,000 lb) Approx. Weight = 3,41 kg/m (2.28 lb/ft) No Load Dia = 26,44 mm (1.041 in) to 26,78 mm (1.054 in) Ref: 80123747, 80120441</p> <p><u>Optional Wire Rope - 3.5:1 Safety Factor</u></p> <p><b>Hoist Line:</b> <b>26 mm</b> (Drum 1): Wire Rope with Spelter Button Right Hand Regular Lay Minimum Breaking Strength = 48 170 kg (106,200 lb) Approx. Weight = 2,89 kg/m (1.94 lb/ft) No Load Dia = 26,44 mm (1.041 in) to 26,78 mm (1.054 in) Ref: 80123752</p> <p><b>Whip / Auxiliary Line:</b> <b>26 mm</b> (Drum 2 or Drum 3): Wire Rope with Spelter Button Right Hand Regular Lay Minimum Breaking Strength = 48 170 kg (106,200 lb) Approx. Weight = 2,89 kg/m (1.94 lb/ft) No Load Dia = 26,44 mm (1.041 in) to 26,78 mm (1.054 in) Ref: 80123752</p>

# Wire Rope Specifications

## MLC150-1

Jib No. 134 on  
Boom No. B10:350

Maximum Spooling Capacities	
Drum 1: (Front - Hoist Line)	26 mm Wire Rope - 5 Layers - 344 m (1,130 ft)
Drum 2: (Rear - Auxiliary Line)	26 mm Wire Rope - 5 Layers - 344 m (1,130 ft)
Drum 3: (Auxiliary Line)	26 mm Wire Rope - 4 Layers - 175 m (575 ft)
7 m (23 ft) is deducted from maximum spooling capacities for 3 dead wraps per drum on drums 1 and 2. 5 m (15 ft) is deducted from maximum spooling capacities for 3 dead wraps on drum 3.	

Refer to Drum and Lagging chart **No. 9830-A** and Load Block Reeving in the Operator Manual.

Refer to Block Overhaul Weights chart **No. 9825-A** for minimum weight required for block lowering.

**Warning:** Free fall operation 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.*