

Wire Rope Specifications

MLC150-1

Boom B20:350 with
Luffing Jib No. 135A Attached

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)
21,0	68.9	6	6	6	6	6	6	6	6	6	6	6
24,0	78.7	6	6	6	6	6	6	6	6	6	6	6
27,0	88.6	6	6	6	6	6	6	6	6	6	6	6
30,0	98.4	6	6	6	6	6	6	6	6	6	6	6
33,0	108.3	6	6	6	6	6	6	6	6	6	6	6
36,0	118.1	6	5	5	5	5	5	5	5	5	5	5
39,0	128.0	5	5	5	5	5	5	5	5	5	5	5
42,0	137.8	5	5	5	5	5	4	5	4	4	4	4
45,0	147.6	4	4	4	4	4	4	4	4	4	4	4
48,0	157.5	4	4	4	4	4	4	4	—	—	—	—

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)
21,0	68.9	6	6	6	6	6	6	6	6	6	6	6
24,0	78.7	6	6	6	6	6	6	6	6	6	6	6
27,0	88.6	5	5	5	5	5	5	5	5	5	5	5
30,0	98.4	4	4	4	4	4	4	4	4	4	4	4
33,0	108.3	4	4	4	4	4	4	4	4	4	4	4
36,0	118.1	3	3	3	3	3	3	3	3	3	3	3
39,0	128.0	3	3	3	3	3	3	3	3	3	3	3
42,0	137.8	3	3	3	3	3	3	3	3	3	3	3
45,0	147.6	2	2	2	2	2	2	2	2	2	2	2
48,0	157.5	2	2	2	2	2	2	2	—	—	—	—

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Wire Rope Lengths (includes all luffing jib lengths)					
Boom Length		Hoist Line Drum 1		Hoist Line Drum 3	
Meters	Feet	Meters	Feet	Meters	Feet
21,0	68.9	170	550	170	540
24,0	78.7	190	610	190	610
27,0	88.6	210	680	180	580
30,0	98.4	230	750	170	540
33,0	108.3	250	820	180	590
36,0	118.1	270	890	160	510
39,0	128.0	250	820	170	550
42,0	137.8	270	880	180	590
45,0	147.6	240	790	150	480
48,0	157.5	260	840	160	510

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.

Hoist Reeving for Load Block - Drum 1						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - kg	13 430	26 860	40 290	53 720	67 150	80 580
Maximum Load - lb	29,600	59,200	88,800	118,400	148,000	177,600
Maximum Load per Part of Line - kg	13 430	13 430	13 430	13 430	13 430	13 430
Maximum Load per Part of Line - lb	29,600	29,600	29,600	29,600	29,600	29,600

Hoist Reeving for Load Block - Drum 3						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - kg	9 070	18 140	27 210	36 280	45 350	54 420
Maximum Load - lb	20,000	40,000	60,000	80,000	100,000	120,000
Maximum Load per Part of Line - kg	9 070	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	20,000

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Wire Rope Specifications	
<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>	
Hoist Line:	
26 mm (Drums 1 & 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	
<u>Optional Wire Rope - 3.5:1 Safety Factor</u>	
Hoist Line:	
26 mm (Drums 1 & 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	
Maximum Spooling Capacities	
Drum 1: (Front)	26 mm Wire Rope - 5 Layers - 344 m (1,130 ft)
Drum 3: (Auxiliary)	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 drum 1.	
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.*