

# Wire Rope Specifications

Jib No. 148 on  
 Boom No. B60:500  
 with Mast No. M10:503 or Mast No. M11:503

Maximum Required Parts of Line - Drum 1							
Boom Length		Jib Length Meters (Feet)					
Meters	Feet	12,0 (39.4)	18,0 (59.1)	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)
42,0	137.8	4	4	3	2	2	2
48,0	157.5	4	4	3	2	2	2
54,0	177.2	4	4	3	2	2	2
60,0	196.9	4	4	3	2	2	2
66,0	216.5	4	4	3	2	2	2
72,0	236.2	4	3	3	2	2	2
78,0	255.9	4	3	3	2	2	2
84,0	275.6	4	3	3	2	2	2
90,0	295.3	4	3	2	2	2	2
96,0	315.0	4	3	2	2	2	2
102,0	334.6	4	3	2	2	2	1
108,0	354.3	3	3	2	2	2	1

Maximum Parts of Line For Full Hoisting Range - Drum 2 or 3							
Boom Length		Jib Length Meters (Feet)					
Meters	Feet	12,0 (39.4)	18,0 (59.1)	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)
42,0	137.8	4	4	3	2	2	2
48,0	157.5	4	4	3	2	2	2
54,0	177.2	4	4	3	2	2	2
60,0	196.9	4	4	3	2	2	2
66,0	216.5	4	4	3	2	2	2
72,0	236.2	4	3	3	2	2	2
78,0	255.9	3	3	3	2	2	2
84,0	275.6	3	3	3	2	2	2
90,0	295.3	3	3	2	2	2	2
96,0	315.0	3	2	2	2	2	2
102,0	334.6	2	2	2	2	2	1
108,0	354.3	2	2	2	2	2	1

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**MLC300  
VPC-MAX**

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Maximum Parts of Line For Full Hoisting Range - Drum 6							
Boom Length		Jib Length Meters (Feet)					
Meters	Feet	12,0 (39.4)	18,0 (59.1)	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)
42,0	137.8	4	4	3	3	2	2
48,0	157.5	4	4	3	3	2	2
54,0	177.2	4	4	3	3	2	2
60,0	196.9	4	4	3	3	2	2
66,0	216.5	4	4	3	3	2	2
72,0	236.2	4	3	3	3	2	2
78,0	255.9	3	3	3	2	2	2
84,0	275.6	3	3	2	2	2	2
90,0	295.3	3	2	2	2	2	2
96,0	315.0	2	2	2	2	2	2
102,0	334.6	2	2	2	2	2	2
108,0	354.3	2	2	2	2	2	1

Wire Rope Lengths - Single Hoist Drum (includes all jib lengths)							
Boom Length		Hoist Line Drum 1		Hoist Line Drum 2 or 3		Hoist Line Drum 6	
Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
42,0	137.8	315	1,030	320	1,050	315	1,030
48,0	157.5	345	1,130	350	1,140	345	1,130
54,0	177.2	375	1,230	380	1,240	375	1,230
60,0	196.9	405	1,330	410	1,340	405	1,330
66,0	216.5	435	1,420	440	1,440	435	1,420
72,0	236.2	435	1,420	440	1,440	435	1,420
78,0	255.9	465	1,520	425	1,390	420	1,380
84,0	275.6	495	1,620	450	1,470	420	1,380
90,0	295.3	525	1,720	450	1,470	420	1,380
96,0	315.0	555	1,820	450	1,470	425	1,390
102,0	334.6	585	1,910	430	1,410	440	1,444
108,0	354.3	515	1,690	445	1,460	440	1,444

**Note:** Above hoist line lengths are based on single part lead line. 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.

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Hoist Reeving for Main Load Block - Single Lead Line (Drum 1, 2, or 3)				
No. Parts of Line	1	2	3	4
Maximum Load - kg	16 670	33 340	50 010	65 000
Maximum Load - lb	36,760	73,520	110,280	143,300
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 250
Maximum Load per Part of Line - lb	36,760	36,760	36,760	35,825

Hoist Reeving for Main Load Block - Single Lead Line (Drum 6)				
No. Parts of Line	1	2	3	4
Maximum Load - kg	13 600	27 200	40 800	54 400
Maximum Load - lb	30,000	60,000	90,000	120,000
Maximum Load per Part of Line - kg	13 600	13 600	13 600	13 600
Maximum Load per Part of Line - lb	30,000	30,000	30,000	30,000

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<p><u>Rotation Resistant Wire Rope</u></p> <p><b>Hoist Line:</b>  <b>28 mm</b> (Drum 1):  Wire Rope with Spelter Button and Pad Eye  Right Hand Lang Lay  Minimum Breaking Strength = 83 370 kg (183,800 lb)  Approx. Weight = 4,2 kg/m (2.8 lb/ft)  No Load Dia. = 28.83 mm (1.135 in) to 29.08 mm (1.145 in)  MCC Reference No. 81025289, 81026075, or 81024556</p> <p><b>Auxiliary Line:</b>  <b>28 mm</b> (Drums 2, 3, and 6):  Wire Rope with Spelter Button and Pad Eye  Right Hand Lang Lay  Minimum Breaking Strength = 83 370 kg (183,800 lb)  Approx. Weight = 4,2 kg/m (2.8 lb/ft)  No Load Dia. = 28.83 mm (1.135 in) to 29.08 mm (1.145 in)  MCC Reference No. 81025289, 81026075, or 81024556</p>

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Maximum Spooling Capacities	
Drum 1: (Hoist Line)	28 mm Wire Rope - 8 Layers - 939 m (3,082 ft)
Drum 2: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft) - non-freefall drum
Drum 3: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft) - non-freefall drum
Drum 6: (Auxiliary Line)	28 mm Wire Rope - 7 Layers - 400 m (1,312 ft)
7 m (22 ft) is deducted from maximum spooling capacity for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 9339-A** and Load Block Reeving in the Operator Manual.

Refer to Block Overhaul Weights chart **No. 9413-A** for minimum weight required for block lowering.