Wire Rope Specifications

MLC300

Jib No. 148 on
Boom No. B15:505-500

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

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

Wire Rope Specifications

MLC300

Jib No. 148 on
Boom No. B15:505-500

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

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

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.

Wire Rope Specifications

MLC300

Jib No. 148 on
Boom No. B15:505-500

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

Wire Rope Specifications

Rotation Resistant Wire Rope

Hoist Line:

28 mm (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

Auxiliary Line:

28 mm (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

Wire Rope Specifications

MLC300

Jib No. 148 on
Boom No. B15:505-500

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)
Drum 3: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft)
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.

Warning: Free fall operation is limited to 8 300 kg (18,300 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.*

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