

# Wire Rope Specifications

Luffing Jib No. LJ10:501 on  
Boom No. B10:500

Maximum Required Parts of Line - Drum 1														
Boom Length		Luffing Jib Length Meters (Feet)												
Meters	Feet	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)	48,0 (157.5)	54,0 (177.2)	60,0 (196.9)	66,0 (216.5)	72,0 (236.2)	78,0 (255.9)	84,0 (275.6)	90,0 (295.3)	96,0 (315.0)
30,0	98.4	9	8	7	6	5	5	4	4	3	3	2	2	2
36,0	118.1	9	8	7	6	5	5	4	3	3	2	2	2	2
42,0	137.8	9	8	7	6	5	4	4	3	3	2	2	2	2
48,0	157.5	8	7	6	6	5	4	4	3	3	2	2	2	2
54,0	177.2	7	7	6	5	4	4	3	3	2	2	2	2	1
60,0	196.9	7	6	5	4	4	3	3	3	—	—	—	—	—
66,0	216.5	6	5	4	4	—	—	—	—	—	—	—	—	—

Maximum Parts of Line For Full Hoisting Range- Drum 2														
Boom Length		Luffing Jib Length Meters (Feet)												
Meters	Feet	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)	48,0 (157.5)	54,0 (177.2)	60,0 (196.9)	66,0 (216.5)	72,0 (236.2)	78,0 (255.9)	84,0 (275.6)	90,0 (295.3)	96,0 (315.0)
30,0	98.4	7	6	5	5	4	4	4	3	3	3	2	2	2
36,0	118.1	6	5	5	4	4	4	3	3	3	2	2	2	2
42,0	137.8	5	5	4	4	3	3	3	3	2	2	2	2	2
48,0	157.5	5	4	4	3	3	3	3	2	2	2	2	2	2
54,0	177.2	4	4	3	3	3	3	2	2	2	2	2	2	1
60,0	196.9	4	3	3	3	3	2	2	2	—	—	—	—	—
66,0	216.5	3	3	3	3	—	—	—	—	—	—	—	—	—

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

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Wire Rope Lengths - Single Hoist Drums (includes all Luffing Jib Lengths)									
Boom Length		Whip Line Drum 2 or 3				Hoist Line Drum 1		Hoist Line Drum 2	
		1 Part		2 Parts					
Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
30,0	98.4	270	880	395	1,290	555	1,820	460	1,509
36,0	118.1	280	920	415	1,350	615	2,020	460	1,509
42,0	137.8	295	960	430	1,410	680	2,220	450	1,470
48,0	157.5	305	1,000	450	1,470	665	2,170	450	1,470
54,0	177.2	320	1,040	450	1,470	685	2,250	445	1,460
60,0	196.9	270	880	400	1,300	685	2,250	445	1,460
66,0	216.5	235	770	345	1,130	645	2,110	445	1,460

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

Hoist Reeving for Main Load Block - Single Lead Line (Drum 1 or 2)					
No. Parts of Line	1	2	3	4	5
Maximum Load - kg	16 670	33 340	50 010	66 680	83 350
Maximum Load - lb	36,760	73,520	110,280	147,040	183,800
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760	36,760
No. Parts of Line	6	7	8	9	
Maximum Load - kg	100 020	116 690	133 360	150 000	
Maximum Load - lb	220,560	257,320	294,080	330,690	
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 666	
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,743	

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Hoist Reeving for Whip Load Block - Single Lead Line (Drum 2 or 3)		
No. Parts of Line	1	2
Maximum Load - kg	16 600	33 300
Maximum Load - lb	36,700	73,520
Maximum Load per Part of Line - kg	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760

Wire Rope Specifications
<u>Rotation Resistant Wire Rope</u> <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  <b>Whip/Auxiliary Line:</b> <b>28 mm</b> (Drums 2 or 3): 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

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

**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.*