

Wire Rope Specifications

Luffing Jib No. LJ11:500-501 on
Boom No. B65:505-500
with Mast No. M11:503

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)
54,0	177.2	9	7	8	7	6	5	5	4	4	3	—
60,0	196.9	9	7	7	6	6	5	4	4	3	3	—
66,0	216.5	8	7	6	6	5	5	4	4	3	3	2
72,0	236.2	7	6	6	5	5	4	4	3	3	3	2
78,0	255.9	6	6	5	4	4	4	3	3	3	2	2
84,0	275.6	6	5	4	4	4	3	3	3	2	2	2

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)
54,0	177.2	4	4	3	3	3	3	2	2	2	2	—
60,0	196.9	4	3	3	3	3	2	2	2	2	2	—
66,0	216.5	3	3	3	3	2	2	2	2	2	2	2
72,0	236.2	3	3	3	2	2	2	2	2	2	2	1
78,0	255.9	3	3	2	2	2	2	2	2	2	1	1
84,0	275.6	3	2	2	2	2	2	2	2	1	1	1

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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)
54,0	177.2	2	2	2	2	2	2	2	2	2	2	—
60,0	196.9	2	2	2	2	2	2	2	2	2	2	—
66,0	216.5	2	2	2	2	2	2	2	2	2	2	1
72,0	236.2	2	2	2	2	2	2	2	2	2	1	1
78,0	255.9	2	2	2	2	2	2	2	2	1	1	1
84,0	275.6	2	2	2	2	2	2	2	1	1	1	1

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	
Meters	Feet	1 Part		2 Parts		Meters	Feet	Meters	Feet
		Meters	Feet	Meters	Feet				
54,0	177.2	280	920	415	1,360	820	2,690	445	1,460
60,0	196.9	295	970	435	1,430	855	2,810	445	1,460
66,0	216.5	320	1,050	450	1,480	825	2,710	460	1,509
72,0	236.2	330	1,080	450	1,480	780	2,560	460	1,509
78,0	255.9	340	1,120	450	1,480	770	2,530	460	1,509
84,0	275.6	355	1,160	450	1,480	770	2,530	460	1,509

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.

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Hoist Reeving for Main Load Block - Single Lead Line (Drum 1)					
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	147 280	
Maximum Load - lb	220,560	257,320	294,080	324,700	
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 364	
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,077	

Hoist Reeving for Main Load Block - Single Lead Line (Drum 2)				
No. Parts of Line	1	2	3	4
Maximum Load - kg	16 670	33 340	50 010	66 680
Maximum Load - lb	36,760	73,520	110,280	147,040
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760

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	73,500
Maximum Load per Part of Line - kg	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760

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<u>Rotation Resistant Wire Rope</u> 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) Whip/Auxiliary Line: 28 mm (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)

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: (Whip Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft) - non-freefall drum
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.