

Wire Rope Specifications

16000 SERIES 2, 3

Liftcrane - Luffing Jib No. 59 on Boom No. 58HL

Boom Length		Maximum Required Parts of Line										
		Luffing Jib Length Feet (Meters)										
Feet	Meters	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
98.4	30,0	12	10	10	8	8	6	6	6	4	4	4
118.1	36,0	12	10	10	8	8	6	6	6	4	4	4
137.8	42,0	10	10	8	8	6	6	6	4	4	4	4
157.5	48,0	10	8	8	8	6	6	6	4	4	4	4
177.2	54,0	8	8	6	6	6	6	4	4	4	4	2
196.9	60,0	8	8	6	6	6	4	4	—	—	—	—
216.5	66,0	8	6	—	—	—	—	—	—	—	—	—

Wire Rope Lengths (Includes All Luffing Jib Lengths)							
Boom Length		Hoist Line Drum 1		Whip Line Drum 2			
				1 Part		2 Part	
Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
98.4	30,0	2450	747	800	244	1200	366
118.1	36,0	2650	808	850	259	1250	381
137.8	42,0	2650	808	900	274	1300	396
157.5	48,0	2700	823	950	290	1400	427
177.2	54,0	2700	823	1000	305	1450	442
196.9	60,0	2700	823	1000	305	1450	442
216.5	66,0	2700	823	1000	305	1450	442

Note: Hoist and whip 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 Main Load Block						
No. Parts of Line	2	4	6	8	10	12
Maximum Load - lb	71,700	143,500	215,200	287,000	358,800	408,500
Maximum Load - kg	32 520	65 090	97 610	130 180	162 750	185 200

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<u>Rotation Resistant Wire Rope</u> Hoist Line: 28 mm (Drum 1): Dyform 34MAX Wire Rope With Spelter Button and Pad Eye (MCC Part No. A12083) Right Hand Lang Lay Minimum Breaking Strength = 179,400 lb (81 370 kg) Approx. Weight = 2.80 lb per ft (4,17 kg/m) No Load Dia. = 1.135 in. (28,83 mm) to 1.145 in. (29,08 mm) Whip Line: 28 mm (Drum 2): Dyform 34MAX Wire Rope With Spelter Button and Pad Eye (MCC Part No. A12083) Right Hand Lang Lay Minimum Breaking Strength = 179,400 lb (81 370 kg) Maximum Load = 30,000 lb (13 610 kg) per line Approx. Weight = 2.80 lb per ft (4,17 kg/m) No Load Dia. = 1.135 in. (28,83 mm) to 1.145 in. (29,08 mm)

Maximum Spooling Capacities
Drum 1: 28 mm Wire Rope - 11 Layers - 3,801 ft (1 159 m) (Hoist Line) Drum 2: 28 mm Wire Rope - 7 Layers - 1,610 ft (491 m) (Whip Line)
21 ft (6 m) is deducted from maximum spooling capacities for 3 dead wraps per drum.

Refer to Drum and Lagging chart **No. 8673-A** and Load Block Reeving in Operator's Manual.