



Wire Rope Specifications

21000 MAX-ER

Liftcrane - Luffing Jib No. 81 on Boom No. 80

Tandem Drums - Single Jib Point											
Boom Length		Parts of Line for Maximum Capacity						Hoist Line Drum 1		Hoist Line Drum 2	
		Jib Length - Feet (Meters)									
Feet	Meters	120 (36.6)	140 (42.7)	160 (48.8)	180 (54.9)	200 (61.0)	220 (67.1)	Feet	Meters	Feet	Meters
180	54.9	24	20	20	16	16	12	4100	1250	4100	1250
200	61.0	20	20	16	16	16	12	4100	1250	4100	1250
220	67.1	20	16	16	16	12		4100	1250	4100	1250
240	73.2	16	16	16	12	12		4100	1250	4100	1250
260	79.2	16	16	12	12			4100	1250	4100	1250
280	85.3	16	12	12				4100	1250	4100	1250
300	91.4	12	12					4100	1250	4100	1250

Note: Above hoist line lengths are based on tandem drums both reeved to jib load block. Each drum is dead ended in jib point. Total parts of line requires using both drums 1 and 2. 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.

Hoist Reeving for Jib Load Block - Two Lead Lines - Tandem Drums				
No. Parts of Line	12	16	20	24
Maximum Load - Lbs.	585,600	780,800	976,000	1,000,000
Maximum Load - kg	265 620	354 160	442 710	453 600

Single Drum - Single Jib Point																	
Boom Length		Maximum Parts of Line for Full Hoisting Range										Hoist Line Drum 1		Whip Line Drum 2			
		Jib Length - Feet (Meters)												1 Part		2 Part	
Feet	Meters	120 (36.6)	140 (42.7)	160 (48.8)	180 (54.9)	200 (61.0)	220 (67.1)	240 (73.2)	260 (79.2)	280 (85.3)	300 (91.4)	Feet	Meters	Feet	Meters	Feet	Meters
180	54.9	16	14	14	14	12	12	10	10	8	8	5500	1676	1400	427	2000	610
200	61.0	14	14	14	12	12	10	10	10	8	8	5500	1676	1400	427	2000	610
220	67.1	14	14	12	12	10	10	10	8	8	6	5500	1676	1400	427	2000	610
240	73.2	14	12	12	10	10	10	10	8	8	6	5500	1676	1400	427	2000	610
260	79.2	12	12	10	10	10	10	8	8	6	6	5500	1676	1400	427	2000	610
280	85.3	12	10	10	10	10	8	8	8	6	6	5500	1676	1400	427	2000	610
300	91.4	10	10	10	10	8	8	8	6	6	6	5500	1676	1400	427	2000	610
320	97.5	10	10	10	8	8	8	6	6	6	6	5500	1676	1400	427	2000	610
340	103.6	10	10	8	8	8	8	6	6	6	6	5500	1676	1400	427	2000	610

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 Jib Load Block - Single Lead Line - Single Drum						
No. Parts of Line	6	8	10	12	14	16
Maximum Load - Lbs.	292,800	390,400	488,000	585,600	683,200	773,600
Maximum Load - kg	132 810	177 080	221 350	265 620	309 890	350 900



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Hoist Line:	32 mm - 34MAX Wire Rope Right Hand Lang Lay Minimum Breaking Strength = 244,000 Lbs. (110 680 kg) MCC Part No. A00062 Approx. Weight = 3.74 Lbs. Per Ft. (5.57 kg/m) No Load Dia. = 1.285 (32.64 mm) to 1.304 in. (33.12 mm) OR 2 160 N/mm ² Wire Rope Minimum Breaking Strength = 244,000 Lbs. (110 680 kg) MCC Part No. 719413 Approx. Weight = 3.23 Lbs. Per Ft. (4.81 kg/m) No Load Dia. = 1.285 (32.64 mm) to 1.310 in. (33.27 mm)
Whip Line:	32 mm - 34MAX Wire Rope Right Hand Lang Lay Minimum Breaking Strength = 244,000 Lbs. (110 680 kg) Maximum Load = 48,800 Lbs. (22 140 kg) MCC Part No. A00062 Approx. Weight = 3.74 Lbs. Per Ft. (5.57 kg/m) No Load Dia. = 1.285 (32.64 mm) to 1.304 in. (33.12 mm) OR 2 160 N/mm ² Wire Rope Minimum Breaking Strength = 244,000 Lbs. (110 680 kg) Maximum Load = 48,800 Lbs. (22 140 kg) MCC Part No. 719413 Approx. Weight = 3.23 Lbs. Per Ft. (4.81 kg/m) No Load Dia. = 1.285 (32.64 mm) to 1.310 in. (33.27 mm)

Maximum Spooling Capacities	
Drum 1: (Hoist Line)	32 mm Wire Rope - 10 Layers - 4,840 Ft. (1 475m)
Drum 2: (Hoist or Whip Line)	32 mm Wire Rope - 10 Layers - 4,840 Ft. (1 475m)
22 Ft. (7m) is deducted from maximum spooling capacities for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 8140-A** and Load Block Reeving chart **No. 6061** or **No. 6062**.