

Wire Rope Specifications

Liftcrane - Luffing Jib No. 79A on Boom No. 55 or No. 55A
28 mm Hoist Line

**18000 With
21000 MAX-ER**

Wire Rope Lengths - Tandem Hoist Drums														
Boom Length		Total Parts of Line					Hoist Line Drum 1		Hoist Line Drum 2		Whip Line - Drum 2 or 3			
		Jib Length - Feet (Meters)									1 Part		2 Part	
Feet	Meters	90 (27.4)	110 (33.5)	130 (39.6)	150 (33.5)	170 (39.6)	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
160	48.8	24	20	16	16	16	3300	1006	3300	1006	1000	305	1500	457
180	54.9	20	20	16	16	16	3300	1006	3300	1006	1025	312	1525	465
200	61.0	20	16	16			3300	1006	3300	1006	1075	328	1600	488
220	67.1	16	16				3300	1006	3300	1006	1125	343	1650	503
240	73.2	16	12				3300	1006	3300	1006	1150	351	1725	526
260	79.2	12	12				3300	1006	3300	1006	1200	366	1775	541
280	85.3	12					3300	1006	3300	1006	1225	373	1825	556
300	91.4										1300	396	1900	579
320	97.5										1300	396	1900	579
340	103.6										1300	396	1900	579

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 Reeving for Jib Load Block - Two Lead Lines				
No. Parts of Line	12	16	20	24
Maximum Load - Lbs.	430,500	574,000	717,600	737,700
Maximum Load - kg	195 270	260 360	325 500	334 620

Wire Rope Lengths - Single Hoist Drum															
Boom Length		Maximum Parts of Line for Full Hoisting Range												Hoist Line Drum 1	
		Jib Length - Feet (Meters)													
Feet	Meters	90 (27.4)	110 (33.5)	130 (39.6)	150 (45.7)	170 (51.8)	190 (57.9)	210 (64.0)	230 (70.1)	250 (76.2)	270 (82.3)	290 (88.4)	310 (94.5)	Feet	Meters
160	48.8	18	16	14	14	12	12	10	8	8	6	6	6	4800	1463
180	54.9	16	14	14	12	12	10	10	8	8	6	6	4	4800	1463
200	61.0	14	14	12	12	10	10	8	8	6	6	6	4	4800	1463
220	67.1	14	12	12	10	10	8	8	6	6	6	4	4	4800	1463
240	73.2	12	12	10	10	8	8	6	6	6	6	4	4	4800	1463
260	79.2	12	10	10	8	8	8	6	6	6	4	4	4	4800	1463
280	85.3	10	10	8	8	8	6	6	6	4	4	4	4	4800	1463
300	91.4	10	8	8	8	6	6	6	4	4	4	4	4	4800	1463
320	97.5	8	8	8	6	6	6	4	4	4	4			4800	1463
340	103.6	8	6	6	6	6	4	4	4	4				4800	1463

Note: Above hoist line lengths are based on single part lead line.

Hoist Reeving for Jib Load Block - Single Lead Line									
No. Parts of Line	2	4	6	8	10	12	14	16	18
Maximum Load - Lbs.	71,700	143,500	215,200	287,000	358,800	426,400	492,600	557,500	621,100
Maximum Load - kg	32 520	65 090	97 610	130 180	162 750	193 410	223 440	252 880	281 730

Note: Hoist and whip line lengths in above tables 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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28 mm Hoist Line

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21000 MAX-ER**

Wire Rope Specifications
<u>Rotation Resistant Wire Rope</u>
Hoist Line:
28 mm (Drum 1):
Dyform 34MAX Wire Rope With Pad Eye (MCC Part No. 719425)
Right Hand Lang Lay
Minimum Breaking Strength = 179,400 Lbs. (81 370 kg)
Approx. Weight = 2.76 Lbs. Per Ft. (4.11 kg/m)
No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)
Hoist or Whip Line:
28 mm (Drum 2):
Dyform 34MAX Wire Rope With Pad Eye (MCC Part No. 719425)
Right Hand Lang Lay
Minimum Breaking Strength = 179,400 Lbs. (81 370 kg)
Maximum Load = 35,800 Lbs. (16 240 kg) per line
Approx. Weight = 2.76 Lbs. Per Ft. (4.11 kg/m)
No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)
Whip Line:
28 mm (Drum 3):
Dyform 34MAX Wire Rope With Pad Eye (MCC Part No. 719425)
Right Hand Lang Lay
Minimum Breaking Strength = 179,400 Lbs. (81 370 kg)
Maximum Load = 30,000 Lbs. (13 610 kg) per line
Approx. Weight = 2.76 Lbs. Per Ft. (4.11 kg/m)
No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)

Maximum Spooling Capacities	
Drum 1: (Hoist Line)	28 mm Wire Rope - 11 Layers - 4,723 Ft. (1 440m)
Drum 2: (Hoist or Whip Line)	28 mm Wire Rope - 11 Layers - 4,723 Ft. (1 440m)
Drum 3: (Whip Line)	28 mm Wire Rope - 8 Layers - 1,900 Ft. (579m)
23 Ft. (7m) is deducted from maximum spooling capacities for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 8512-A** and Load Block Reeving folio **No. 2032**.