

Wire Rope Specifications

Liftcrane - Boom No. 80

**21000
MAX-ER**

Wire Rope Lengths Tandem Drums - Tandem Boom Point						
Boom Length		Hoist Line Drum 1		Hoist Line Drum 2		Total Parts of Line
Ft.	Meters	Ft.	Meters	Ft.	Meters	
140	42.7	3500	1067	3500	1067	44
160	48.8	3900	1189	3900	1189	44
180	54.9	4400	1341	4400	1341	44
200	61.0	4400	1341	4400	1341	40
220	67.1	4800	1463	4800	1463	40
240	73.2	4800	1463	4800	1463	36
260	79.2	4800	1463	4800	1463	32
280	85.3	4800	1463	4800	1463	28
300	91.4	4800	1463	4800	1463	28

Wire Rope Lengths Tandem Drums - Single Boom Point						
Boom Length		Hoist Line Drum 1		Hoist Line Drum 2		Total Parts of Line
Ft.	Meters	Ft.	Meters	Ft.	Meters	
320	97.5	4800	1463	4800	1463	24
340	103.6	4800	1463	4800	1463	24
360	109.7	4800	1463	4800	1463	20
380	115.8	4800	1463	4800	1463	16

Note: Above hoist line lengths are based on tandem drums both reeved to main load block. Each drum is dead ended in main load block reeving. 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 Main Load Block - Two Lead Lines Tandem Drums				
No. Parts of Line	16	20	24	28
Maximum Load - Lbs.	780,800	976,000	1,171,200	1,366,400
Maximum Load - kg	354 160	442 710	531 250	619 800
No. Parts of Line	32	36	40	44
Maximum Load - Lbs.	1,547,200	1,723,800	1,896,800	2,000,000
Maximum Load - kg	701 810	781 900	860 370	907 100

Note: Boom must be equipped with single boom point when reeved for 16 parts thru 24 parts of line.

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Wire Rope Lengths Single Drum - Single Boom Point								
Boom Length		Whip Line - Drum 2 or 3				Hoist Line - Drum 1		
		1 Part		2 Part		Ft.	Meters	Maximum Parts of Line For Full Hoisting Range
Ft.	Meters	Ft.	Meters	Ft.	Meters			
140	42.7	370	113	525	160	4400	1341	28
160	48.8	410	125	600	183	4900	1494	28
180	54.9	450	137	650	198	5500	1554	28
200	61.0	490	149	725	221	5500	1676	24
220	67.1	530	162	775	236	5500	1676	22
240	73.2	570	174	825	251	5500	1676	20
260	79.2	610	186	900	274	5500	1676	18
280	85.3	650	198	950	290	5500	1676	18
300	91.4	690	210	1025	312	5500	1676	16
320	97.5	730	223	1075	328	5500	1676	16
340	103.6	770	235	1125	343	5500	1676	14
360	109.7	810	247	1200	366	5500	1676	14
380	115.8	850	259	1250	381	5500	1676	12

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 - Single Boom Point							
No. Parts of Line	2	4	6	8	10	12	14
Maximum Load - Lbs.	97,600	195,200	292,800	390,400	488,000	585,600	683,200
Maximum Load - kg	44 270	88 540	132 810	177 080	221 350	265 620	309 890
No. Parts of Line	16	18	20	22	24	26	28
Maximum Load - Lbs.	773,600	861,900	948,400	1,033,200	1,116,300	1,197,700	1,200,000
Maximum Load - kg	350 900	390 950	430 190	468 650	506 350	543 270	544 300

Note: 28 is maximum parts for main load block when single boom point and single lead line are used.

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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/mm² 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/mm² 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)
Drum 3: (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. 6060, No. 6061 or No. 6062.**