

Wire Rope Specifications

Liftcrane - Boom No. 80

21000

Wire Rope Lengths Tandem Drums - Tandem Boom Point										
Boom Length		Whip Line Drum 3				Hoist Line Drum 1		Hoist Line Drum 2		Total Parts of Line
		1 Part		2 Part						
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	
100	30.5	290	88	425	130	2100	640	2100	640	36
120	36.6	330	101	475	145	2300	701	2300	701	32
140	42.7	370	113	525	160	2600	792	2600	792	32
160	48.8	410	125	600	183	2600	792	2600	792	28

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 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 - Two Lead Lines Tandem Boom Point			
No. Parts of Line	28	32	36
Maximum Load - Lbs.	1,366,400	1,547,200	1,668,200
Maximum Load - kg	619 800	701 810	756 600

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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	Ft.	Meters	Ft.	Meters	Ft.	Meters	Parts of Line
100	30.5	290	88	425	130	3200	975	28
120	36.6	330	101	475	145	3800	1158	28
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	5100	1554	26
200	61.0	490	149	725	221	5200	1585	24
220	67.1	530	162	775	236	5300	1615	22
240	73.2	570	174	825	251	5300	1615	20
260	79.2	610	186	900	274	5300	1615	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

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

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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**.