

Wire Rope Specifications

Liftcrane - Boom No. 80-81

21000

Wire Rope Lengths - Single Drum								
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
180	54.9	450	137	650	198	5500	1676	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
400	121.9	890	271	1325	404	5500	1676	12

Note: Hoist line 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							
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**.