



Wire Rope Specifications

Liftcrane - Boom No. 79

MAX-ER 2000

On 2250

Wire Rope Lengths								
Boom Length		Whip Line Drum 5				Hoist Line Drum 9		Maximum Required Parts of Line
		1 Part		2 Part				
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	
120	36.6	300	91	425	130	3600	1097	26
140	42.7	340	104	500	152	4000	1219	26
160	48.8	380	116	550	168	4200	1280	24
180	54.9	420	128	625	191	4400	1341	22
200	61.0	460	140	675	206	4400	1341	20
220	67.1	500	152	725	221	4400	1341	18
240	73.2	540	165	800	244	4400	1341	16
260	79.2	580	177	850	259	4400	1341	14
280	85.3	620	189	925	282	4400	1341	12
300	91.4	660	201	975	297	4400	1341	12
320	97.5	700	213	1025	312	4400	1341	10
340	103.6	740	226	1100	335	4400	1341	8
360	109.7	780	238	1150	351	4400	1341	8

Note: Hoist line and whip line lengths given in table 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					
No. Parts of Line	8	10	12	14	16
Maximum Load - Lbs.	277,600	347,000	416,400	485,800	555,200
Maximum Load - kg	125 920	157 400	188 880	220 360	251 830
No. Parts of Line	18	20	22	24	26
Maximum Load - Lbs.	624,600	694,000	763,400	832,800	900,000
Maximum Load - kg	283 310	314 790	346 270	377 750	408 200



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<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>	
Hoist Line:	1-1/8 in. (28.6 mm) Wire Rope Right Hand Regular Lay Minimum Breaking Strength = 176,800 Lbs. (80 190 kg) MCC Part No. 719416 Approx. Weight = 2.58 Lbs. Per Ft. (3.84 kg/m) Minimum Breaking Strength Required = 173,500 Lbs. (78 700 kg) No Load Dia. = 1.134 in. (28.80 mm) to 1.154 in. (29.31 mm)
	OR
	1-1/8 in. (28.6 mm) Wire Rope Right Hand Lang Lay Minimum Breaking Strength = 173,800 Lbs. (78 830 kg) MCC Part No. 719375 Approx. Weight = 2.73 Lbs. Per Ft. (4.06 kg/m) Minimum Breaking Strength Required = 173,500 Lbs. (78 700 kg) No Load Dia. = 1.131 in. (28.73 mm) to 1.166 in. (29.62 mm)
Whip Line:	1 in. (25.4 mm) Wire Rope Right Hand Regular Lay Minimum Breaking Strength = 139,600 Lbs. (63 320 kg) Maximum Load = 27,700 Lbs. (12 560 kg) per line MCC Part No. 719417 Approx. Weight = 2.03 Lbs. Per Ft. (3.02 kg/m) Minimum Breaking Strength Required = 138,500 Lbs. (62 820 kg) No Load Dia. = 1.012 in. (25.70 mm) to 1.028 in. (26.11 mm)
	OR
	1 in. (25.4 mm) Wire Rope Right Hand Lang Lay Minimum Breaking Strength = 153,800 Lbs. (69 760 kg) Maximum Load = 27,700 Lbs. (12 560 kg) per line MCC Part No. 719436 Approx. Weight = 2.26 Lbs. Per Ft. (3.36 kg/m) Minimum Breaking Strength Required = 138,500 Lbs. (62 820 kg) No Load Dia. = 1.020 in. (25.91 mm) to 1.036 in. (26.31 mm)

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<u>Conventional Wire Rope - 3.5:1 Safety Factor</u>	
Whip Line:	7/8 in. (22 mm) Dyform-6 Wire Rope Minimum Breaking Strength = 87,600 Lbs. (39 730 kg) Maximum Load = 20,000 Lbs. (9 070 kg) per line MCC Part No. 719335 Approx. Weight = 1.53 Lbs. Per Ft. (2.28 kg/m)
<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>	
Whip Line:	7/8 in. (22 mm) 2160 N/mm ² Wire Rope Right Hand Lang Lay Minimum Breaking Strength = 109,600 Lbs. (49 710 kg) Maximum Load = 20,000 Lbs. (9 070 kg) per line MCC Part No. 719414 Approx. Weight = 1.65 Lbs. Per Ft. (2.46 kg/m)
Other 7/8 in. luffing hoist wire ropes specified on 2250 luffing jib rigging are not allowed.	

Maximum Spooling Capacities	
Drum 9: (Hoist Line)	1-1/8 in. (28.6 mm) Wire Rope - 11 Layers - 4,334 Ft. (1 321m)
Drum 5: (Whip Line)	1 in. (25.4 mm) Wire Rope - 6 Layers - 1,104 Ft. (336m) with 19 in. (483 mm) Dia. Lagging 7/8 in. (22 mm) Wire Rope - 7 Layers - 1,157 Ft. (353m)
21 Ft. (6m) is deducted from maximum spooling capacities for 3 dead wraps on Drum 9, 16 Ft. (5m) on Drum 5. 7/8 in. wire rope cannot be used as luffing hoist on MAX-ER 2000.	

Refer to Drum and Lagging chart No. 8195-A.