



Wire Rope Specifications

15000 SERIES 3, 4

Liftcrane - Luffing Jib No. 149A on Boom No. 57

European
Standards

Boom Length		MAXIMUM REQUIRED PARTS OF LINE																	
		Luffing Jib Length																	
		Ft. (Meters)																	
Ft.	Meters	70 (21.3)	80 (24.4)	90 (27.3)	100 (30.5)	110 (33.5)	120 (36.6)	130 (39.6)	140 (42.7)	150 (45.7)	160 (48.8)	170 (51.8)	180 (54.9)	190 (57.9)	200 (61.0)	210 (64.0)	220 (67.1)	230 (70.1)	240 (73.2)
80.4	24.5	6	6	6	6	5	5	5	4	4	4	3	3	3	2	2	2	2	2
90.2	27.5	6	6	6	5	5	5	4	4	4	3	3	3	3	2	2	2	2	2
100.1	30.5	6	6	6	5	5	5	4	4	4	3	3	3	3	2	2	2	2	2
109.9	33.5	6	6	5	5	5	5	4	4	4	3	3	3	2	2	2	2	2	2
119.8	36.5	6	6	5	5	5	5	4	4	3	3	3	3	2	2	2	2	2	2
129.6	39.5	5	5	5	5	5	4	4	4	3	3	3	3	2	2	2	2	2	2
139.4	42.5	5	5	5	5	4	4	4	3	3	3	3	2	2	2	2	2	2	2
149.3	45.5	5	5	5	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2
159.1	48.5	5	5	5	4	4	4	3	3	3	3	2	2	2	2	2	2	2	2
169.0	51.5	5	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	2	1
178.8	54.5	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	1
188.7	57.5	4	4	4	3	3	3	3	3	2	2	2	2	2					
198.5	60.5	4	4	3	3	3	3	3											

WIRE ROPE LENGTHS (Includes All Luffing Jib Lengths)											
Boom Length		Hoist Line Front Drum		Whip Line Front Drum or Auxiliary Drum				Intermediate Fall Line Auxiliary Drum			
				1 Part		2 Part		1 Part		2 Part	
				Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
80.4	24.5	1350	411	690	210	1025	312	460	140	690	210
90.2	27.5	1350	411	710	216	1075	328	480	146	720	219
100.1	30.5	1400	427	730	223	1100	335	500	152	750	229
109.9	33.5	1450	442	750	229	1125	343	520	158	780	238
119.8	36.5	1500	457	770	235	1150	351	540	165	810	247
129.6	39.5	1500	457	790	241	1175	358	560	171	840	256
139.4	42.5	1500	457	810	247	1225	373	580	177	870	265
149.3	45.5	1500	457	830	253	1250	381	600	183	900	274
159.1	48.5	1550	472	850	259	1275	389	620	189	930	283
169.0	51.5	1550	472	870	265	1300	396	640	195	960	293
178.8	54.5	1550	472	890	271	1325	404	660	201	990	302
188.7	57.5	1550	472	910	277	1375	419	680	207	1020	311
198.5	60.5	1550	472	930	283	1400	427	700	213	1050	320

Note: Hoist line lengths given in table include all luffing jib lengths. Hoist, whip and intermediate fall 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.



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Hoist Reeving for Main Load Block - Front Drum						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - Lbs.	29,500	59,000	88,500	118,000	147,500	176,400
Maximum Load - kg	13 380	26 760	40 140	53 520	66 900	80 000

Hoist Reeving for Intermediate Fall Line Auxiliary Drum		
No. Parts of Line	1	2
Maximum Load - Lbs.	20,000	40,000
Maximum Load - kg	9 070	18 140

Maximum Spooling Capacities	
Front Drum: (Hoist Line)	26 mm Wire Rope - 7 Layers - 1,727 Ft. (526m)
Auxiliary Drum: (Intermediate Fall Line)	26 mm Wire Rope - 6 Layers - 1,323 Ft. (403m) 6 Layers - 1,415 Ft. (431m) with 21-1/4 in. (540 mm) Dia. Lagging
17 Ft. (5m) is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.	

Note: When optional laggings are used, the recommended lagging for specific wire rope dia. must be used.Refer to drum and lagging chart **No. 8613-A**.

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<u>Rotation Resistant Wire Rope</u>		
Hoist Line:	26 mm -	2 160 N/mm ² Wire Rope With Pad Eye (MCC Part No. 719430) Right Hand Regular Lay Minimum Breaking Strength Required = 147,500 Lbs. (656.1 kN) Approx. Weight = 2.13 Lbs Per Ft. (3.17 kg/m) No Load Dia. = 1.033 in. (26.24 mm) to 1.045 in. (26.54 mm) Or 26 mm - Wire Rope With Pad Eye (MCC Part No. 719432) Right Hand Lang Lay Minimum Breaking Strength Required = 147,500 Lbs. (656.1 kN) Approx. Weight = 2.39 Lbs Per Ft. (3.56 kg/m) No Load Dia. = 1.034 in. (26.26 mm) to 1.054 in. (26.77 mm)
Intermediate Fall Line: (Auxiliary Drum)	26 mm -	1 960 N/mm ² Wire Rope (MCC Part No. 719378) Right Hand Regular Lay Minimum Breaking Strength Required = 100,000 Lbs. (445.0 kN) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 2.13 Lbs. Per Ft. (3.17 kg/m) No Load Dia. (required for lagging) = 1.033 in. (26.24 mm) to 1.045 in. (26.54 mm) Or 26 mm - Wire Rope With Pad Eye (MCC Part No. 719432) Right Hand Lang Lay Minimum Breaking Strength Required = 100,000 Lbs. (445.0 kN) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 2.39 Lbs. Per Ft. (3.56 kg/m) No Load Dia. (required for lagging) = 1.034 in. (26.26 mm) to 1.054 in. (26.77 mm)