

Wire Rope Specifications

Liftcrane - Luffing Jib No. 222 on Boom No. 260

222 SERIES B 222EX SERIES B

PARTS OF LINE FOR MAXIMUM CAPACITY												
Boom Length		Luffing Jib Length - Feet (Meters)										
Feet	Meters	50 (15.2)	60 (18.3)	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	110 (33.5)	120 (36.6)	130 (39.6)	140 (42.7)	150 (45.7)
55	16.8	4	4	3	3	3	2	2	2	2	2	2
65	19.8	4	4	3	3	3	2	2	2	2	2	2
75	22.9	4	4	3	3	3	2	2	2	2	2	2
85	25.9	4	3	3	3	3	2	2	2	2	2	2
95	29.0	3	3	3	3	3	2	2	2	2	2	2
105	32.0	3	3	3	3	3	2	2	2	2	2	2
115	35.1	3	3	3	3	2	2	2	2	2	2	2
125	38.1	3	3	3	2	2	2	2	2	2	2	2
135	41.1	3	3	2	2	2	2	2	2	2	2	2
145	44.2	2	2									

WIRE ROPE LENGTHS							
Boom Length		Hoist Line Front Drum		Intermediate Fall Line Auxiliary Drum			
				1 Part		2 Part	
Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
55	16.8	650	198	150	46	210	64
65	19.8	700	213	170	52	240	73
75	22.9	750	229	190	58	270	82
85	25.9	750	229	210	64	300	91
95	29.0	775	236	230	70	330	101
105	32.0	825	251	250	76	350	107
115	35.1	825	251	270	82	—	—
125	38.1	825	251	290	88	—	—
135	41.1	825	251	310	94	—	—
145	44.2	825	251	330	101	—	—

Note: Hoist line lengths given in table include all luffing jib lengths. Hoist 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.

Hoist Reeving for Main Load Block				
No. Parts of Line	1	2	3	4
Maximum Load - Lbs.	20,000	40,000	60,000	70,000
Maximum Load - kg	9 070	18 140	27 220	31 700

Hoist Reeving for Intermediate Fall Line		
No. Parts of Line	1	2
Maximum Load - Lbs.	11,250	22,500
Maximum Load - kg	5 100	10 200

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<u>3.5:1 Safety Factor</u>	
Hoist Line:	7/8 in. (22 mm) - 6 x 25 Filler Wire, Extra Improved Plow Steel Regular Lay, IWRC Minimum Breaking Strength = 79,600 Lbs. (36 110 kg) Approximate Weight = 1.42 Lbs. Per Ft. (2.11 kg/m) MCC Part No. 719111
Intermediate Fall Line:	5/8 in. (16 mm) - 6 x 25 Filler Wire, Extra Extra Improved Plow Steel Regular Lay, IWRC Minimum Breaking Strength = 45,400 Lbs. (20 590 kg) Maximum Load = 11,250 Lbs. (5 100 kg) Per Line Approx. Weight = .72 Lbs. Per Ft. (1.07 kg/m) MCC Part No. 719371
<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>	
Hoist Line:	22 mm (7/8 in.) - 2 160 N/mm ² (MCC Part No. 719420) Minimum Breaking Strength = 104,700 Lbs. (47 490 kg) Approximate Weight = 1.61 Lbs. Per Ft. (2.39 kg/m) OR 7/8 in. (22 mm) - 1 960 N/mm ² (MCC Part No. 719424) Minimum Breaking Strength = 104,600 Lbs. (47 450 kg) Approximate Weight = 1.53 Lbs. Per Ft. (2.28 kg/m) No Load Dia. = 0.887 in. (22.5 mm) to 0.905 in. (23.0 mm)
Intermediate Fall Line:	5/8 in. (16 mm) - 2 160 N/mm ² Wire Rope Minimum Breaking Strength = 56,420 Lbs. (25 590 kg) Maximum Load = 11,250 Lbs. (5 100 kg) Per Line Approx. Weight = .84 Lbs. Per Ft. (1.25 kg/m) MCC Part No. 719427

Maximum Spooling Capacities	
Front Drum:	7/8 in. (22 mm) Wire Rope - 6 Layers - 819 Ft. (250m)
(Hoist Line)	6 Layers - 870 Ft. (265m) with 20-7/16 in. (519 mm) Dia. Lagging
Auxiliary Drum:	5/8 in. (16 mm) Wire Rope - 4 Layers - 264 Ft. (80m)
(Rotating Bed Mount - Intermediate Fall Line)	
16 Ft. (5m) is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging on front drum; 9 Ft. (3m) on auxiliary drum.	

Refer to Drum and Lagging chart **No. 9088-A**.