

Wire Rope Specifications

2250 SERIES 3

Liftcrane - Boom No. 44 With Heavy Lift Top
1-1/4 in. Wire Rope

Wire Rope Lengths								
Boom or Boom and Jib Length		Whip Line Left Rear or Front Drum				Hoist Line Right Rear Drum		Maximum Required Parts of Line
		1 Part		2 Part				
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	
70	21.3	190	58	275	84	1225	373	15
80	24.4	210	64	300	91	1300	396	14
90	27.4	230	70	325	99	1350	411	13
100	30.5	250	76	350	107	1400	427	12
110	33.5	270	82	375	114	1400	427	10
120	36.6	290	88	425	130	1400	427	10
130	39.6	310	94	450	137	1400	427	9
140	42.7	330	101	475	145	1500	457	9
150	45.7	350	107	500	152	1500	457	8
160	48.8	370	113	525	160	1550	472	8
170	51.8	390	119	575	175	1600	488	8
180	54.9	410	125	600	183	1600	488	7
190	57.9	430	131	625	191	1600	488	7
200	61.0	450	137	650	198	1600	488	6
210	64.0	470	143	675	206	1600	488	6
220	67.1	490	149	725	221	1600	488	6
230	70.1	510	155	750	229	1600	488	5
240	73.2	530	162	775	236	1600	488	5
250	76.2	550	168	800	244	1600	488	5
260	79.2	570	174	825	251	1650	503	5
270	82.3	590	180	850	259	1650	503	4
280	85.3	610	186	900	274	1650	503	4
290	88.4	630	192	925	282	1650	503	4
300	91.4	650	198	950	290	1650	503	4

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. Load block hoisting distance will be restricted using wire rope lengths shown. Maximum block travel may be restricted when hoist line length exceeds 1200 Ft. (366m) with bare right rear drum or 990 Ft. (302m) using 24-1/2 in. (622 mm) Dia. lagging on right rear drum. Maximum hook travel for upper boom point application may be restricted when whip line length exceeds 875 Ft. (267m) with bare front drum or 700 Ft. (201m) using 24-1/2 in. (622 mm) Dia. lagging on front drum; 480 Ft. (146m) with bare left rear drum or 400 Ft. (122m) using 24-1/2 in. (622 mm) Dia. lagging on left rear drum.

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Hoist Reeving for Main Load Block					
No. Parts of Line	1	2	3	4	5
Maximum Load - Lbs.	40,000	80,000	120,000	160,000	200,000
Maximum Load - kg	18 140	36 290	54 430	72 570	90 720
No. Parts of Line	6	7	8	9	10
Maximum Load - Lbs.	240,000	280,000	320,000	360,000	400,000
Maximum Load - kg	108 860	127 010	145 150	163 290	181 440
No. Parts of Line	11	12	13	14	15
Maximum Load - Lbs.	440,000	480,000	520,000	560,000	600,000
Maximum Load - kg	199 580	217 720	235 870	254 010	272 100

Wire Rope Specifications	
Hoist Line:	1-1/4 in. or 32 mm - 2 160 N/mm ² Wire Rope Right Lang Lay (MCC Part No. A00212) Minimum Breaking Strength = 220,400 Lbs. (99 970 kg) Approx. Weight = 3.37 Lbs. Per Ft. (5.01 kg/m) No Load Dia. = 1.285 in. (32.6 mm) to 1.310 in. (33.3 mm)
Whip Line:	1-1/4 in. or 32 mm - 2 160 N/mm ² Wire Rope Right Lang Lay (MCC Part No. A00212) Minimum Breaking Strength = 220,400 Lbs. (99 970 kg) Maximum Load = 40,000 Lbs. (18 140 kg) per line Approx. Weight = 3.37 Lbs. Per Ft. (5.01 kg/m) No Load Dia. = 1.285 in. (32.6 mm) to 1.310 in. (33.3 mm)

Maximum Spooling Capacities	
Right Rear Drum: 1-1/4 in. or 32 mm Wire Rope - 4 Layers - 918 Ft. (280m) (Hoist Line)	3 Layers - 703 Ft. (214m) with 24½ in. (622 mm) Dia. Lagging
Left Rear Drum: 1-1/4 in. or 32 mm Wire Rope - 4 Layers - 375 Ft. (114m) (Whip Line)	3 Layers - 284 Ft. (87m) with 24½ in. (622 mm) Dia. Lagging
Front Drum: 1-1/4 in. or 32 mm Wire Rope - 4 Layers - 770 Ft. (235m) (Whip Line)	3 Layers - 589 Ft. (180m) with 24½ in. (622 mm) Dia. Lagging
20 Ft. (6m) is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.	