

Wire Rope Specifications

Liftcrane - Boom No. 44A With Heavy Lift Top

2250T

Wire Rope Lengths												
Boom or Boom and Jib Length		Whip Line Left Rear Drum								Hoist Line Right Rear Drum		Maximum Required Parts of Line
		1 Part		2 Part		3 Part		4 Part				
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	
70	21.3	190	58	275	84					1475	450	18
80	24.4	210	64	300	91					1650	503	18
90	27.4	230	70	325	99					1750	533	17
100	30.5	250	76	350	107					1825	556	16
110	33.5	270	82	375	114					1875	572	15
120	36.6	290	88	425	130					2025	617	15
130	39.6	310	94	450	137					2050	625	14
140	42.7	330	101	475	145					2075	632	13
150	45.7	350	107	500	152					2075	632	12
160	48.8	370	113	525	160					2175	663	12
170	51.8	390	119	575	175	725	221	925	282	2175	663	11
180	54.9	410	125	600	183	775	236	975	297	2250	686	11
190	57.9	430	131	625	191	825	251	1025	312	2250	686	10
200	61.0	450	137	650	198	850	259	1075	328	2275	693	10
210	64.0	470	143	675	206	900	274	1125	343	2275	693	9
220	67.1	490	149	725	221	925	282	1175	358	2275	693	9
230	70.1	510	155	750	229	975	297	1225	373	2275	693	8
240	73.2	530	162	775	236	1025	312	1270	387	2275	693	7
250	76.2	550	168	800	244	1050	320	—	—	2275	693	7
260	79.2	570	174	825	251	1100	335	—	—	2275	693	7
270	82.3	590	180	850	259	1125	343	—	—	2275	693	6
280	85.3	610	186	900	274	1175	358	—	—	2275	693	6
290	88.4	630	192	925	282	1225	373	—	—	2275	693	5
300	91.4	650	198	950	290	1250	381	—	—	2275	693	5
310	94.5	660	201	975	297	—	—	—	—			
320	97.5	680	207	1000	305	—	—	—	—			
330	100.6	700	213	1025	312	—	—	—	—			
340	103.6	720	219	1075	328	—	—	—	—			
350	106.7	740	226	1100	335	—	—	—	—			

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. Maximum hook travel for upper boom point application may be restricted when whip line length exceeds 1,170 Ft. (357m) using 24½ in. (622 mm) Dia. lagging on left rear drum.

Hoist Reeving for Main Load Block						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - Lbs.	30,000	60,000	90,000	120,000	150,000	180,000
Maximum Load - kg	13 610	27 220	40 820	54 430	68 040	81 650
No. Parts of Line	7	8	9	10	11	12
Maximum Load - Lbs.	210,000	240,000	270,000	300,000	330,000	360,000
Maximum Load - kg	95 250	108 860	122 470	136 080	149 690	163 290
No. Parts of Line	13	14	15	16	17	18
Maximum Load - Lbs.	390,000	420,000	450,000	480,000	510,000	600,000
Maximum Load - kg	176 900	190 510	204 120	217 720	231 330	272 100

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Rotation Resistant Wire Rope - 5:1 Safety Factor

Hoist Line: 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)

OR

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)

Whip Line: 1-1/8 in. (28.6 mm) Wire Rope
Right Hand Lang Lay
Minimum Breaking Strength = 173,800 Lbs. (78 830 kg)
Maximum Load = 30,000 Lbs. (13 610 kg) per line
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)

OR

1-1/8 in. (28.6 mm) Wire Rope
Right Hand Regular Lay
Minimum Breaking Strength = 176,800 Lbs. (80 190 kg)
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No Load Dia. = 1.134 in. (28.80 mm) to 1.154 in. (29.31 mm)

Rigging Winch Line: 3/8 in. (9.5 mm) - 6 x 19 Filler Wire, Improved Plow Steel, Regular Lay, IWRC
Minimum Breaking Strength = 13,100 Lbs. (5 940 kg)
MCC Part No. 719019
Recommended Length = 800 Ft. (244m)

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Maximum Spooling Capacities	
Right Rear Drum: 1-1/8 in. (28.6 mm) Wire Rope - 8 Layers -	2,411 Ft. (735m)
(Hoist Line)	2,566 Ft. (782m) with 24½ in. (622 mm) Dia. Lagging
Left Rear Drum: 1-1/8 in. (28.6 mm) Wire Rope - 9 Layers -	1,173 Ft. (358m)
(Whip Line)	8 Layers - 1,068 Ft. (326m) with 24½ in. (622 mm) Dia. Lagging
20 Ft. (6m) is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.	

Refer to Drum and Lagging chart **No. 8465-A**.