

Wire Rope Specifications

Liftcrane - Luffing Jib No. 133 or No. 133A on
Boom No. 44 With Heavy Lift Top

M-250

M-250 SERIES 2, 3

Wire Rope Lengths													
Boom and Luffing Jib Length		Luffing Jib Whip Line Left Rear Drum		Luffing Jib Hoist Line									
				Right Rear Drum when Equipped with Split Rear Drums					Front Drum when Equipped with Tandem Drums				
		1 Part		6 Part		5 Part		4 Part		3 Part		2 Part	
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters
150	45.7	340	104	1125	343								
160	48.8	360	110	1200	366								
170	51.8	380	116	1250	381								
180	54.9	400	122	1325	404								
190	57.9	420	128	1400	427	1200	366						
200	61.0	440	134	1475	450	1275	389						
210	64.0	460	140	1550	472	1325	404						
220	67.1	480	146	1600	488	1375	419	1175	358				
230	70.1	500	152	1675	511	1450	442	1225	373				
240	73.2	520	158	---	---	1500	457	1275	389				
250	76.2	540	165	---	---	1550	472	1300	396	1050	320		
260	79.2	560	171	---	---	1625	495	1350	411	1100	335		
270	82.3	580	177	---	---	1675	511	1400	427	1125	343		
280	85.3	600	183	---	---	1750	533	1450	442	1175	358		
290	88.4	620	189	---	---	---	---	1500	457	1225	373		
300	91.4	640	195	---	---	---	---	1550	472	1250	381		
310	94.5	660	201	---	---	---	---	1600	488	1300	396		
320	97.5	680	207	---	---	---	---	---	---	1325	404		
330	100.6	700	213	---	---	---	---	---	---	1375	419		
340	103.6	720	219	---	---	---	---	---	---	1400	427		
350	106.7	740	226	---	---	---	---	---	---	1450	442	1100	335
360	109.7	760	232	---	---	---	---	---	---	1475	450	1125	343
370	112.8	780	238	---	---	---	---	---	---	---	---	1150	351
380	115.8	800	244	---	---	---	---	---	---	---	---	1175	358
390	118.9	820	250	---	---	---	---	---	---	---	---	1200	366

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 luffing jib application may be restricted when wire rope length exceeds 1,350 Ft. (411m) using left rear drum without lagging or when wire rope length exceeds 1,250 Ft. (381m) using 24½ 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	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	81 600

Wire Rope Specifications		
Hoist Line:	1-1/8 in. (28.6 mm) -	1 960 N/mm ² Wire Rope Minimum Breaking Strength = 154,900 Lbs. (70 260 kg) MCC Part No. 719375 Approx. Weight = 2.70 Lbs. Per Ft. (4.02 kg/m) Or
	29 mm (1-1/8 in.) -	1 770 N/mm ² Wire Rope Minimum Breaking Strength = 154,700 Lbs. (70 170 kg) MCC Part No. 719374 Approx. Weight = 2.85 Lbs. Per Ft. (4.25 kg/m)
Whip Line:	1-1/8 in. (28.6 mm) -	1 960 N/mm ² Wire Rope Minimum Breaking Strength = 154,900 Lbs. (70 260 kg) Maximum Load = 30,000 Lbs. (13 610 kg) per line MCC Part No. 719375 Approx. Weight = 2.70 Lbs. Per Ft. (4.02 kg/m) Or
	29 mm (1-1/8 in.) -	1 770 N/mm ² Wire Rope Minimum Breaking Strength = 154,700 Lbs. (70 170 kg) Maximum Load = 30,000 Lbs. (13 610 kg) per line MCC Part No. 719374 Approx. Weight = 2.85 Lbs. Per Ft. (4.25 kg/m)
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
	29 mm Wire Rope - 8 Layers - 2,394 Ft. (730m)
	2,546 Ft. (776m) 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
	29 mm Wire Rope - 9 Layers - 1,164 Ft. (355m)
	8 Layers - 1,060 Ft. (323m) with 24½ in. (622 mm) Dia. Lagging
Front Drum:	1-1/8 in. (28.6 mm) Wire Rope - 8 Layers - 2,028 Ft. (618m)
(Hoist Line)	2,158 Ft. (658m) with 24½ in. (622 mm) Dia. Lagging
	29 mm Wire Rope - 8 Layers - 2,013 Ft. (614m)
	2,141 Ft. (653m) 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. 6118-A**.