



Wire Rope Specifications

Liftcrane - Luffing Jib No. 133 or No. 133A on
Boom No. 49A-44 With Heavy Lift Top

MAX-ER 225
On 2250 or M-250

Wire Rope Lengths															
Boom and Luffing Jib Length		Luffing Jib Whip Line Left Rear or Right Rear Drum		Luffing Jib Hoist Line Right Rear or Front Drum											
				1 Part		6 Part		5 Part		4 Part		3 Part		2 Part	
				Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters
210	64.0	470	143	1550	472										
220	67.1	490	149	1600	488										
230	70.1	510	155	1675	511										
240	73.2	530	162	1750	533										
250	76.2	550	168	1825	556										
				1575	480										
260	79.2	570	174	1900	579	1625	495								
270	82.3	590	180	1950	594	1675	511								
280	85.3	610	186	2025	617	1750	533								
290	88.4	630	192	2100	640	1800	549								
300	91.4	650	198	2175	663	1850	564								
				1550	472	1250	381								
310	94.5	670	204	2250	686	1925	587	1600	488	1300	396				
320	97.5	690	210	2300	701	1975	602	1650	503	1325	404				
330	100.6	710	216	---	---	2050	625	1700	518	1375	419				
340	103.6	730	223	---	---	2100	640	1750	533	1400	427				
350	106.7	750	229	---	---	2175	663	1800	549	1450	442				
				1100	335										
360	109.7	770	235	---	---	2225	678	1850	564	1475	450	1125	343		
370	112.8	790	241	---	---	---	---	1900	579	1525	465	1150	351		
380	115.8	810	247	---	---	---	---	1950	594	1550	472	1175	358		
390	118.9	830	253	---	---	---	---	2000	610	1600	488	1225	373		
400	121.9	850	259	---	---	---	---	2050	625	1650	503	1250	381		
410	125.0	870	265	---	---	---	---	---	---	1675	511	1275	389		
420	128.0	890	271	---	---	---	---	---	---	1725	526	1300	396		
430	131.1	910	277	---	---	---	---	---	---	1775	541	1325	404		
440	134.1	930	283	---	---	---	---	---	---	1800	549	1350	411		
450	137.2	950	290	---	---	---	---	---	---	1850	564	1400	427		
460	140.2	970	296	---	---	---	---	---	---	1875	572	1425	434		
470	143.3	990	302	---	---	---	---	---	---	---	---	1450	442		
480	146.3	1010	308	---	---	---	---	---	---	---	---	1475	450		
490	149.4	1030	314	---	---	---	---	---	---	---	---	1500	457		
500	152.4	1050	320	---	---	---	---	---	---	---	---	1550	472		

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 1,410 Ft. (430m) using left rear drum without lagging or when wire rope length exceeds 1,310 Ft. (399m) 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: (Hoist Line)	1-1/8 in. (28.6 mm) Wire Rope - 8 Layers - 2,411 Ft. (735m) 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 (Whip Line)	1-1/8 in. (28.6 mm) Wire Rope - 9 Layers - 1,173 Ft. (358m) 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: (Hoist Line)	1-1/8 in. (28.6 mm) Wire Rope - 8 Layers - 2,028 Ft. (618m) 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** (M-250) or **No. 6124-A** (2250).