

# Wire Rope Specifications

## 777 SERIES 2

Liftcrane - Fixed Jib No. 138 On Luffing Jib No. 139 on Boom No. 78

Wire Rope Lengths Front Drum Or Auxiliary Drum			
Boom, Luffing Jib And Fixed Jib Length		Fixed Jib Whip Line	
		1 Part	
Ft.	Meters	Ft.	Meters
310	94.5	650	198
320	97.5	670	204
330	100.6	690	210
340	103.6	710	216
350	106.7	730	223
360	109.7	750	229
370	112.8	770	235
380	115.8	790	241
390	118.9	810	247
400	121.9	830	253
410	125.0	850	259

**Note:** Whip line lengths given in table will allow hook to touch ground. When hook travel below ground is required, add additional rope times added travel distance. Hoisting distance or line pull may be limited when hook travel below ground is required.

Maximum load on 1 in. or 26 mm wire rope is 27,500 Lbs. (12 400 kg) per line (20,000 Lbs. [9 070 kg] when auxiliary drum is used).

Refer to drum and lagging chart **No. 6123-A**.

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<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>		
Whip Line:	26 mm -	2 160 N/mm <sup>2</sup> Wire Rope (Ref. MCC Part No. 719379) Minimum Breaking Strength Required = 147,500 Lbs. (656.1 kN) Approx. Weight = 2.13 Lbs. Per Ft. (3.17 kg/m)
		Or
	1 in. -	2 160 N/mm <sup>2</sup> Wire Rope (MCC Part No. 719392) Minimum Breaking Strength Required = 153,800 Lbs. (684.2 kN) Approx. Weight = 2.03 Lbs. Per Ft. (3.02 kg/m)
<u>Optional Wire Rope - 3.5:1 Safety Factor</u>		
Whip Line:	26 mm -	6 x 25 Filler Wire, Extra Improved Plow Steel Right Regular Lay, IWRC (MCC Part No. 719387) Minimum Breaking Strength = 108,600 Lbs. (483.1 kN) Approx. Weight = 1.94 Lbs. Per Ft. (2.89 kg/m)
		Or
	1 in. -	6 x 25 Filler Wire, Extra Improved Plow Steel Right Regular Lay, IWRC (MCC Part No. 719060) Minimum Breaking Strength = 103,400 Lbs. (460 kN) Approx. Weight = 1.85 Lbs. Per Ft. (2.75 kg/m)

Maximum Spooling Capacities		
Front Drum:	26 mm Wire Rope -	6 Layers - 1,074 Ft. (327m)
(Whip Line)	5 Layers -	918 Ft. (280m) with 21-1/4 in. (540 mm) Dia. Lagging
	1 in. Wire Rope -	6 Layers - 1,084 Ft. (330m)
	5 Layers -	928 Ft. (283m) with 21-1/4 in. (540 mm) Dia. Lagging
Auxiliary Drum:	26 mm Wire Rope -	6 Layers - 1,323 Ft. (403m)
(Whip Line)	6 Layers -	1,415 Ft. (431m) with 21-1/4 in. (540 mm) Dia. Lagging
	1 in. Wire Rope -	6 Layers - 1,335 Ft. (407m)
	6 Layers -	1,428 Ft. (435m) with 21-1/4 in. (540 mm) Dia. Lagging
17 Ft. (5m) is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.		

**Note:** When optional laggings are used, the recommended lagging for specific wire rope Dia. must be used.