

Wire Rope Specifications

Liftcrane - Fixed Jib No. 138 On Luffing Jib No. 139 On Boom No. 78T With Heavy Lift Top

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	660	201	
320	97.5	680	207	
330	100.6	700	213	
340	103.6	720	219	
350	106.7	740	226	
360	109.7	760	232	
370	112.8	780	238	
380	115.8	800	244	
390	118.9	820	250	
400	121.9	840	256	
410	125.0	860	262	

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. wire rope is 27,000 Lbs. (12 250 kg) per line (20,000 Lbs. [9 070 kg] on 1 in. or 26 mm wire rope when auxiliary drum is used).

	Wire Rope Sp	ecifications	
Rotation Resistant Wire Rope - 5:15	fety Factor		
Whip Line: 1 (Front Drum)	Minimum Breal Maximum Load	Vire Rope (MCC Part No. 719393) king Strength =139,600 Lbs. (620.9 kN) d= 27,000 Lbs. (12 250 kg) per line t = 2.03 Lbs. Per Ft. (3.02 kg/m)	
Whip Line: 1 (Auxiliary Drum)	Minimum Breal Maximum Load	Vire Rope (MCC Part No. 719393) king Strength =139,600 Lbs. (620.9 kN) l= 20,000 Lbs. (9 070 kg) per line t = 2.03 Lbs. Per Ft. (3.02 kg/m)	
		Or	
26 n	Minimum Breal Maximum Load	Vire Rope (MCC Part No. 719378) king Strength = 146,200 Lbs. (650.6 kN) d = 20,000 Lbs. (9 070 kg) Per Line. t = 2.13 Lbs. Per Ft. (3.17 kg/m)	

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Optional Wire Rope - 3.5 : 1 Safety Factor

Whip Line: 1 in. - 6 X 25 Filler Wire, Extra Improved Plow Steel,

(Front Drum) Right Regular Lay, IWRC (MCC Part No. 719060)

Minimum Breaking Strength 103,400 Lbs. (460 kN) Maximum Load = 27,000 Lbs. (12 250 kg) Per Line

Approx. Weight = 1.85 Lbs. Per. Ft. (2.75 kg/m)

Whip Line: 1 in. - 6 X 25 Filler Wire, Improved Plow Steel,

(Auxiliary Drum) Right Regular Lay, IWRC (MCC Part No. 719073)

Minimum Breaking Strength= 89,800 Lbs. (40 730 kg) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 1.85 Lbs. Per. Ft. (2.75 kg/m)

Or

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) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 1.94 Lbs. Per. Ft. (2.89 kg/m)

Note: Block Spin May Occur With 6 X 25 Construction Wire Rope Under Certain Operating Conditions.

Maximum Spooling Capacities

Front Drum: 1 in. Wire Rope - 5 Layers - 928 Ft. (283m)

(Whip Line)

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.

Refer to drum and lagging chart No. 8093-A.