



Wire Rope Specifications

Liftcrane - Boom No. 49A

MAX-ER 400 On 2250 or M-250

Wire Rope Lengths - Tandem Drums (Two Lead Lines Continuously Reeved)								
Boom Length		Whip Line Left Rear Drum				Hoist Line Right Rear and Front Drum		
		1 Part		2 Part				
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Maximum Parts of Line
82	25.0	210	64	300	91	3325	1014	36
102	31.1	250	76	350	107	3325	1014	28
122	37.2	290	88	425	130	3325	1014	24
142	43.3	330	101	475	145	3325	1014	20
162	49.4	370	113	525	160	3700	1128	20

Hoist line lengths are based on tandem drums (right rear drum and front drum) continuously reeved to main load block.
Only one load drum can be operated at a time. Do not use tandem drum mode.

Wire Rope Lengths - Single Drum (One Lead Line)											
Boom Length		Whip Line Left Rear Drum				Maximum Capacity			Full Hoisting Range		
		1 Part		2 Part		Hoist Line Right Rear Drum			Hoist Line Right Rear Drum		
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Parts of Line	Ft.	Meters	Parts of Line
82	25.0	210	64	300	91	3200	975	36	2900	884	32
102	31.1	250	76	350	107	3200	975	28	2900	884	24
122	37.2	290	88	425	130	3700	1128	28	2900	884	20
142	43.3	330	101	475	145	3700	1128	24	2900	884	16
162	49.4	370	113	525	160	3700	1128	20	2900	884	16

Hoist line lengths are based on one lead line.
Maximum block travel with maximum parts of line will be restricted when hoist line length exceeds 2,900 Ft. (884m).

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.

Hoist Reeving for Main Load Block - Tandem Drums (Two Lead Lines Continuously Reeved - 7 Layers Maximum)								
No. Parts of Line	8	12	16	20	24	28	32	36
Maximum Load - Lbs.	240,000	360,000	480,000	600,000	708,000	812,000	896,000	1,000,000
Maximum Load - kg	108 860	163 290	217 720	272 160	321 140	368 320	406 420	453 500

Tandem drum operation (continuous reeving) is limited to a maximum of 7 layers on each drum or lagging.
Capacities above 896,000 Lbs. (406 420 kg) require 36 parts of line and are limited to first 6 layers on each drum or lagging.

Hoist Reeving for Main Load Block - Single Drum (One Lead Line)								
No. Parts of Line	8	12	16	20	24	28	32	36
Maximum Load - Lbs.	240,000	360,000	480,000	580,000	672,000	770,000	848,000	936,000
Maximum Load - kg	108 860	163 290	217 720	263 080	304 810	349 270	384 650	424 560

Single drum operation (one lead line) is based on 8 layers on drum or lagging.



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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).