



Wire Rope Specifications

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

MAX-ER 225 On 2250 or M-250

Hoist Line Wire Rope Lengths										
Boom Length		Maximum Capacity			Full Hoisting Range					
		Right Rear or Front Drum			Right Rear Drum			Front Drum		
Ft.	Meters	Ft.	Meters	Parts of Line	Ft.	Meters	Parts of Line	Ft.	Meters	Parts of Line
140	42.7	2500	762	16	2500	762	16	2400	732	15
160	48.8	2850	869	16	2800	853	15	2400	732	13
180	54.9	3175	968	16	2800	853	13	2400	732	11
200	61.0	3325	1013	15	2800	853	12	2400	732	10
220	67.1	3325	1013	13	2800	853	11	2400	732	9
240	73.2	3325	1013	12	2800	853	10	2400	732	8
260	79.2	3325	1013	10	2800	853	9	2400	732	8
280	85.3	3325	1013	8	2800	853	8	2400	732	7
300	91.4	3325	1013	6	2800	853	6	2400	732	6

Maximum block travel with maximum parts of line will be restricted when hoist line length exceeds 2,800 Ft. (853m) using right rear drum or 2,400 Ft. (732m) using front drum.

Note: Hoist 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						
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	81 650
No. Parts of Line	7	8	9	10	11	12
Maximum Load - Lbs.	210,000	240,000	270,000	300,000	330,000	360,000
Maximum Load - kg	95 250	108 860	122 470	136 080	149 690	163 290
No. Parts of Line	13	14	15	16		
Maximum Load - Lbs.	390,000	420,000	450,000	480,000		
Maximum Load - kg	176 900	190 510	204 120	217 700		



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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).