



Wire Rope Specifications

Liftcrane - Boom No. 49A-44 With Heavy Lift Top

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	2800	853	18	2800	853	18	2400	732	15
160	48.8	3175	968	18	2800	853	15	2400	732	13
180	54.9	3375	1029	17	2800	853	13	2400	732	11
200	61.0	3525	1074	16	2800	853	12	2400	732	10
220	67.1	3525	1074	13	2800	853	11	2400	732	9
240	73.2	3525	1074	13	2800	853	10	2400	732	8
260	79.2	3525	1074	11	2800	853	9	2400	732	8
280	85.3	3525	1074	10	2800	853	8	2400	732	7
300	91.4	3525	1074	8	2800	853	8	2400	732	6
320	97.5	3525	1074	7	2800	853	7	2400	732	6
340	103.6	3525	1074	6	2800	853	6	2400	732	5

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.

Whip Line Wire Rope Lengths									
Boom or Boom and Jib Length		Whip Line Left Rear or Right Rear Drum							
		1 Part		2 Part		3 Part		4 Part	
		Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters
140	42.7	330	101	475	145				
160	48.8	370	113	525	160				
180	54.9	410	125	600	183				
200	61.0	450	137	650	198				
220	67.1	490	149	725	221				
240	73.2	530	162	775	236				
260	79.2	570	174	825	251			1350	411
280	85.3	610	186	900	274	1175	358	1450	442
300	91.4	650	198	950	290	1250	381	1550	472
320	97.5	690	210	1025	312	1325	404	1650	503
340	103.6	730	223	1075	328	1400	427	1750	533
360	109.7	770	235	1125	343	1475	450	1850	564
380	115.8	810	247	1200	366	1550	472	1950	594
400	121.9	850	259	1250	381	1625	495	---	---
420	128.0	890	271	1300	396	---	---	---	---
440	134.1	930	283	1375	419	---	---	---	---
460	140.2	970	296	1425	434	---	---	---	---

Maximum hook travel for upper boom point application may be restricted when whip line length exceeds 1,230 Ft. (375m) using 24½ in. (622 mm) Dia. lagging on left rear drum or 1,335 Ft. (407m) without lagging.

Note: Hoist line and whip line lengths given in tables 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.



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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	81 650
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	17	18
Maximum Load - Lbs.	390,000	420,000	450,000	480,000	500,000	500,000
Maximum Load - kg	176 900	190 510	204 120	217 720	226 700	226 700

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).