



Wire Rope Specifications

Liftcrane - Luffing Jib No. 44 On Boom No. 79

MAX-ER 2000 On 2250

WIRE ROPE PARTS OF LINE FOR MAXIMUM CAPACITY										
Boom Length		Luffing Jib Length - Feet (Meters)								
Feet	Meters	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	110 (33.5)	120 (36.6)	130 (39.6)	140 (42.7)	150 (45.7)
140	42.7	16	12	12	12	10	10	10	10	8
160	48.8	12	12	12	12	10	10	10	8	8
180	54.9	12	12	10	10	10	10	8	8	8
200	61.0	12	10	10	10	10	8	8	8	8
220	67.1	10	10	10	8	8	8	8	8	6
240	73.2	10	8	8	8	8	8	6	6	6
260	79.2	8	8	8	6	6	6	6	6	6
280	85.3	6	6	6	6	6	6	6	6	4
300	91.4	6	6	6	6	6	4	4	4	4

Boom Length		Luffing Jib Length - Feet (Meters)								
Feet	Meters	160 (48.8)	170 (51.8)	180 (54.9)	190 (57.9)	200 (61.0)	210 (64.0)	220 (67.1)	230 (70.1)	240 (73.2)
140	42.7	8	8	8	6	6	6	6	6	4
160	48.8	8	8	6	6	6	6	6	6	4
180	54.9	8	6	6	6	6	6	4	4	4
200	61.0	6	6	6	6	6	6	4	4	4
220	67.1	6	6	6	6	4	4	4	4	4
240	73.2	6	6	6	4	4	4	4	4	4
260	79.2	6	4	4	4	4	4	4	4	4
280	85.3	4	4	4	4	4	4	4	4	4
300	91.4	4	4	4	4	4	4	4	4	2

HOIST REEVING FOR MAIN LOAD BLOCK				
No. Parts of Line	2	4	6	8
Maximum Load - Lbs.	69,400	138,800	208,200	277,600
Maximum Load - kg	31 480	62 960	94 440	125 920
No. Parts of Line	10	12	14	16
Maximum Load - Lbs.	347,000	416,400	485,800	500,000
Maximum Load - kg	157 400	188 880	220 360	226 700



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WIRE ROPE LENGTHS - Feet (Meters)									
Hoist Line - Drum No. 9									
Boom Length Feet (Meters)	Luffing Jib Length - Feet (Meters)								
	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	110 (33.5)	120 (36.6)	130 (39.6)	140 (42.7)	150 (45.7)
140 (42.7)	3800* (1158)*	3200 (975)	3300 (1006)	3400 (1036)	3000 (914)	3100 (945)	3200 (975)	3300 (1006)	2800 (853)
160 (48.8)	3300 (1006)	3400 (1036)	3500 (1067)	3700 (1128)	3200 (975)	3300 (1006)	3400 (1036)	2900 (884)	3000 (914)
180 (54.9)	3500 (1067)	3700 (1128)	3200 (975)	3300 (1006)	3400 (1036)	3600 (1097)	3000 (914)	3100 (945)	3200 (975)
200 (61.0)	3800* (1158)*	3300 (1006)	3500 (1067)	3600 (1097)	3700 (1128)	3100 (945)	3200 (975)	3300 (1006)	3400 (1036)
220 (67.1)	3500 (1067)	3600 (1097)	3700 (1128)	3100 (945)	3200 (975)	3300 (1006)	3400 (1036)	3500 (1067)	2800 (853)
240 (73.2)	3700 (1128)	3100 (945)	3200 (975)	3300 (1006)	3400 (1036)	3500 (1067)	2800 (853)	2900 (884)	2900 (884)
260 (79.2)	3200 (975)	3300 (1006)	3400 (1036)	2700 (823)	2800 (853)	2900 (884)	2900 (884)	3000 (914)	3100 (945)
280 (85.3)	2700 (823)	2700 (823)	2800 (853)	2900 (884)	2900 (884)	3000 (914)	3100 (945)	3100 (945)	2300 (701)
300 (85.3)	2800 (853)	2900 (884)	2900 (884)	3000 (914)	3100 (945)	2300 (701)	2300 (701)	2400 (732)	2400 (732)
Boom Length Feet (Meters)	Luffing Jib Length - Feet (Meters)								
	160 (48.8)	170 (51.8)	180 (54.9)	190 (57.9)	200 (61.0)	210 (64.0)	220 (67.1)	230 (70.1)	240 (73.2)
140 (42.7)	2900 (884)	3000 (914)	3100 (945)	2500 (762)	2600 (792)	2600 (792)	2700 (823)	2800 (853)	2100 (640)
160 (48.8)	3100 (945)	3200 (975)	2600 (792)	2600 (792)	2700 (823)	2800 (853)	2900 (884)	2900 (884)	2200 (671)
180 (54.9)	3300 (1006)	2600 (792)	2700 (823)	2800 (853)	2800 (853)	2900 (884)	2200 (671)	2200 (671)	2300 (701)
200 (61.0)	2700 (823)	2800 (853)	2800 (853)	2900 (884)	3000 (914)	3100 (945)	2300 (701)	2300 (701)	2400 (732)
220 (67.1)	2900 (884)	2900 (884)	3000 (914)	3100 (945)	2300 (701)	2300 (701)	2400 (732)	2400 (732)	2500 (762)
240 (73.2)	3000 (914)	3100 (945)	3100 (945)	2300 (701)	2400 (732)	2400 (732)	2500 (762)	2500 (762)	2600 (792)
260 (79.2)	3100 (945)	2300 (701)	2400 (732)	2400 (732)	2500 (762)	2500 (762)	2600 (792)	2600 (792)	2700 (823)
280 (85.3)	2400 (732)	2400 (732)	2500 (762)	2500 (762)	2600 (792)	2600 (792)	2700 (823)	2700 (823)	2800 (853)
300 (85.3)	2500 (762)	2500 (762)	2600 (792)	2600 (792)	2700 (823)	2700 (823)	2800 (853)	2800 (853)	1800 (549)

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. Maximum hoist line length indicated by asterisk (*).



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WIRE ROPE LENGTHS					
Boom and Luffing Jib Length		Whip Line Drum No. 3			
		1 Part		2 Part	
Ft.	Meters	Ft.	Meters	Ft.	Meters
210	64.0	480	146	725	221
220	67.1	500	152	750	229
230	70.1	520	158	775	236
240	73.2	540	165	825	251
250	76.2	560	171	850	259
260	79.2	580	177	875	267
270	82.3	600	183	900	274
280	85.3	620	189	925	282
290	88.4	640	195	950	290
300	91.4	660	201	1000	305
310	94.5	680	207	1025	312
320	97.5	700	213	1050	320
330	100.6	720	219	1075	328
340	103.6	740	226	1100	335
350	106.7	760	232	1125	343
360	109.7	780	238	1175	358
370	112.8	800	244	1200	366
380	115.8	820	250	1225	373
390	118.9	840	256	1250	381
400	121.9	860	262	1275	389
410	125.0	880	268	1325*	404*
420	128.0	900	274	1350*	411*
430	131.1	920	280	1375*	419*
440	134.1	940	287		
450	137.2	960	293		
460	140.2	980	299		
470	143.3	1000	305		
480	146.3	1020	311		
490	149.4	1040	317		
500	152.4	1060	323		
510	155.5	1080	329		
520	158.5	1100	335		
530	161.5	1120	341		
540	164.6	1140	347		

Note: Whip line lengths given in table will allow hook to touch ground. When hook 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 hook travel below ground is required. Wire rope lengths denoted by asterisk (*) require bare drum (lagging removed).



Wire Rope Specifications

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On 2250

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WIRE ROPE SPECIFICATIONS	
<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>	
Hoist Line:	1-1/8 in. (28.6 mm) Wire Rope Right Hand Regular Lay Minimum Breaking Strength = 176,800 Lbs. (80 190 kg) MCC Part No. 719416 Approx. Weight = 2.58 Lbs. Per Ft. (3.84 kg/m) Minimum Breaking Strength Required = 173,500 Lbs. (78 700 kg) No Load Dia. = 1.134 in. (28.80 mm) to 1.154 in. (29.31 mm)
	OR
	1-1/8 in. (28.6 mm) Wire Rope Right Hand Lang Lay Minimum Breaking Strength = 173,800 Lbs. (78 830 kg) MCC Part No. 719375 Approx. Weight = 2.73 Lbs. Per Ft. (4.06 kg/m) Minimum Breaking Strength Required = 173,500 Lbs. (78 700 kg) No Load Dia. = 1.131 in. (28.73 mm) to 1.166 in. (29.62 mm)
Whip Line:	1-1/8 in. (28.6 mm) Wire Rope Right Hand Regular Lay Minimum Breaking Strength = 176,800 Lbs. (80 200 kg) Maximum Load = 30,000 Lbs. (13 610 kg) per line MCC Part No. 719416 Approx. Weight = 2.58 Lbs. Per Ft. (3.84 kg/m) No Load Dia. = 1.134 in. (28.80 mm) to 1.154 in. (29.31 mm)
	OR
	1-1/8 in. (28.6 mm) Wire Rope Right Hand Lang Lay Minimum Breaking Strength = 173,800 Lbs. (78 830 kg) Maximum Load = 30,000 Lbs. (13 610 kg) per line MCC Part No. 719375 Approx. Weight = 2.73 Lbs. Per Ft. (4.06 kg/m) No Load Dia. = 1.131 in. (28.73 mm) to 1.166 in. (29.62 mm)

MAXIMUM SPOOLING CAPACITIES	
Drum 9: (Hoist Line)	1-1/8 in. (28.6 mm) Wire Rope - 11 Layers - 4,334 Ft. (1 321m)
Drum 3: (Whip Line)	1-1/8 in. (28.6 mm) Wire Rope - 9 Layers - 1,173 Ft. (358m) 8 Layers - 1,068 Ft. (326m) with 2 1/2 in. (622 mm) Dia. Lagging
21 Ft. (6m) is deducted from maximum spooling capacities for 3 dead wraps on Drum 9, 20 Ft. (6m) on Drum 3.	

Refer to Drum and Lagging chart **No. 8195-A**.