

Wire Rope Specifications

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

European Standards

MAX-ER 2000
On 2250

WIRE ROPE PARTS OF LINE FOR MAXIMUM CAPACITY - DRUM 9										
Boom Length		Fixed 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	12	12	12	10	10	10	8	8	8
160	48.8	12	12	10	10	10	10	8	8	8
180	54.9	12	10	10	10	10	8	8	8	8
200	61.0	10	10	10	8	8	8	8	8	6
220	67.1	10	10	8	8	8	8	6	6	6
240	73.2	8	8	8	8	6	6	6	6	
260	79.2	8	8	8	6	6				
Boom Length		Fixed 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	6	6	6	6	4	4	4	4
160	48.8	6	6	6	6	4	4	4	4	4
180	54.9	6	6	6	6	4	4	4	4	
200	61.0	6	6	6	4	4				
220	67.1	6	6							

HOIST REEVING FOR MAIN LOAD BLOCK - DRUM 9			
No. Parts of Line	2	4	6
Maximum Load - Lbs.	69,400	138,800	208,200
Maximum Load - kg	31 480	62 960	94 440
No. Parts of Line	8	10	12
Maximum Load - Lbs.	277,600	347,000	416,400
Maximum Load - kg	125 920	157 400	188 800



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WIRE ROPE LENGTHS - Feet (Meters) Hoist Line - Drum No. 9									
Boom Length Feet (Meters)	Fixed 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)	3000 (914)	3200 (975)	3300 (1006)	2900 (884)	3000 (914)	3100 (945)	2700 (823)	2700 (823)	2800 (853)
160 (48.8)	3300 (1006)	3400 (1036)	3000 (914)	3100 (945)	3200 (975)	3300 (1006)	2800 (853)	2900 (884)	3000 (914)
180 (54.9)	3500 (1067)	3100 (945)	3200 (975)	3300 (1006)	3400 (1036)	2900 (884)	3000 (914)	3100 (945)	3200 (975)
200 (61.0)	3200 (975)	3300 (1006)	3500* (1067)*	2900 (884)	3000 (914)	3100 (945)	3200 (975)	3300 (1006)	2700 (823)
220 (67.1)	3500 (1067)	3600 (1097)	3000 (914)	3100 (945)	3200 (975)	3300 (1006)	2700 (823)	2700 (823)	2800 (853)
240 (73.2)	3000 (914)	3100 (945)	3200 (975)	3300 (1006)	2700 (823)	2700 (823)	2800 (853)	2900 (884)	
260 (79.2)	3200 (975)	3300 (1006)	3400 (1036)	2700 (823)	2800 (853)				
Boom Length Feet (Meters)	Fixed 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)	2400 (732)	2400 (732)	2500 (762)	2600 (792)	1900 (579)	2000 (610)	2000 (610)	2100 (640)
160 (48.8)	2400 (732)	2500 (762)	2600 (792)	2600 (792)	2000 (610)	2000 (610)	2100 (640)	2100 (640)	2200 (671)
180 (54.9)	2400 (732)	2600 (792)	2700 (823)	2800 (853)	2100 (640)	2100 (640)	2200 (671)	2200 (671)	
200 (61.0)	2700 (823)	2800 (853)	2800 (853)	2100 (640)	2200 (671)				
220 (67.1)	2900 (884)	2900 (884)							

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 PARTS OF LINE FOR MAXIMUM CAPACITY - DRUM 5										
Boom Length		Fixed 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	16	14	14	12	12	10	10	10
160	48.8	14	14	14	12	12	12	10	10	8
180	54.9	14	14	12	12	12	10	10	8	8
200	61.0	14	12	12	10	10	10	10	8	8
220	67.1	12	12	10	10	10	8	8	8	8
240	73.2	10	10	10	10	8	8	8	6	
260	79.2	10	10	8	8	8				
Boom Length		Fixed 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	4	4
180	54.9	8	8	6	6	6	6	6	4	
200	61.0	8	6	6	6	6				
220	67.1	6	6							

WIRE ROPE PARTS OF LINE FOR FULL HOISTING RANGE - DRUM 5										
Boom Length		Fixed 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	4	4	4	4	4	4	4	4	2
160	48.8	4	4	4	4	4	4	2	2	2
180	54.9	4	4	4	4	2	2	2	2	2
200	61.0	4	4	2	2	2	2	2	2	2
220	67.1	2	2	2	2	2	2	2	2	2
240	73.2	2	2	2	2	2	2	2	2	
260	79.2	2	2	2	2	2				
Boom Length		Fixed 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	2	2	2	2	2	2	2	2	2
160	48.8	2	2	2	2	2	2	2	2	2
180	54.9	2	2	2	2	2	2	2	2	
200	61.0	2	2	2	2	2				
220	67.1	2	2							

HOIST REEVING FOR MAIN LOAD BLOCK - DRUM 5				
No. Parts of Line	2	4	6	8
Maximum Load - Lbs.	55,400	110,800	166,200	221,600
Maximum Load - kg	25 130	50 260	75 390	100 520
No. Parts of Line	10	12	14	16
Maximum Load - Lbs.	277,000	332,400	387,800	416,400
Maximum Load - kg	125 640	150 770	175 900	188 800



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WIRE ROPE LENGTHS FOR MAXIMUM CAPACITY - Feet (Meters)									
Hoist Line - Drum No. 5									
Boom Length Feet (Meters)	Fixed 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)	4100 (1250)	3800 (1158)	3900 (1189)	3500 (1067)	3700 (1128)	3200 (975)	3300 (1006)	3400 (1036)
160 (48.8)	3800 (1158)	3900 (1189)	4100 (1250)	3700 (1128)	3800 (1158)	3900 (1189)	3400 (1036)	3600 (1097)	3000 (914)
180 (54.9)	4100 (1250)	4200 (1280)	3800 (1158)	3900 (1189)	4000 (1219)	3600 (1097)	3700 (1128)	3100 (945)	3200 (975)
200 (61.0)	4400* (1341)*	3900 (1189)	4100 (1250)	3600 (1097)	3700 (1128)	3800 (1158)	3900 (1189)	3300 (1006)	3400 (1036)
220 (67.1)	4100 (1250)	4200 (1280)	3700 (1128)	3800 (1158)	3900 (1189)	3300 (1006)	3400 (1036)	3500 (1067)	3500 (1067)
240 (73.2)	3700 (1128)	3800 (1158)	3900 (1189)	4000 (1219)	3400 (1036)	3500 (1067)	2800 (853)	2900 (884)	
260 (79.2)	3900 (1189)	4000 (1219)	3400 (1036)	3500 (1067)	3500 (1067)				
Boom Length Feet (Meters)	Fixed 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)	2100 (640)	2200 (671)
180 (54.9)	3300 (1006)	3400 (1036)	2700 (823)	2800 (853)	2800 (853)	2900 (884)	3000 (914)	2200 (671)	
200 (61.0)	3500 (1067)	2800 (853)	2800 (853)	2900 (884)	3000 (914)				
220 (67.1)	2900 (884)	2900 (884)							

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 (*). Maximum block travel for hoist line application may be restricted when line length exceeds 1,600 Ft. (488m). Wire rope lengths longer than 1,610 Ft. (491m) (8 layers) cannot be stored on Drum 5 during non-operation.

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WIRE ROPE LENGTHS FOR FULL HOISTING RANGE - Feet (Meters)									
Hoist Line - Drum No. 5									
Boom Length Feet (Meters)	Fixed 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)	1150 (351)	1200 (366)	1250 (381)	1300 (396)	1350 (411)	1400 (427)	1450* (442)*	1450* (442)*	950 (290)
160 (48.8)	1250 (381)	1250 (381)	1350 (411)	1400 (427)	1450* (442)*	1450* (442)*	950 (290)	950 (290)	1000 (305)
180 (54.9)	1350 (411)	1400 (427)	1450* (442)*	1450* (442)*	950 (290)	1000 (305)	1000 (305)	1050 (320)	1050 (320)
200 (61.0)	1400 (427)	1450* (442)*	950 (290)	950 (290)	1000 (305)	1050 (320)	1050 (320)	1100 (335)	1100 (335)
220 (67.1)	950 (290)	950 (290)	1000 (305)	1000 (305)	1050 (320)	1100 (335)	1100 (335)	1150 (351)	1150 (351)
240 (73.2)	1000 (305)	1050 (320)	1050 (320)	1100 (335)	1100 (335)	1150 (351)	1150 (351)	1200 (366)	
260 (79.2)	1050 (320)	1100 (335)	1100 (335)	1150 (351)	1200 (366)				
Boom Length Feet (Meters)	Fixed 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)	950 (290)	1000 (305)	1000 (305)	1050 (320)	1050 (320)	1100 (335)	1150 (351)	1150 (351)	1200 (366)
160 (48.8)	1050 (320)	1050 (320)	1050 (320)	1100 (335)	1150 (351)	1150 (351)	1200 (366)	1250 (381)	1250 (381)
180 (54.9)	1100 (335)	1100 (335)	1150 (351)	1150 (351)	1200 (366)	1250 (381)	1250 (381)	1300 (396)	
200 (61.0)	1150 (351)	1150 (351)	1200 (366)	1250 (381)	1250 (381)				
220 (67.1)	1200 (366)	1250 (381)							

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 Fixed 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*

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).

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WIRE ROPE SPECIFICATIONS	
Hoist Line: (Drum 9)	28 mm Wire Rope Right Hand Lang Lay, Rotation Resistant Minimum Breaking Strength = 179,400 Lbs. (81 370 kg) MCC Part No. 719425 Approx. Weight = 2.76 Lbs. Per Ft. (4.11 kg/m) Minimum Breaking Strength Required = 173,500 Lbs. (78 700 kg) No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)
Hoist Line: (Drum 5)	25 mm Wire Rope Right Hand Lang Lay, Rotation Resistant Minimum Breaking Strength = 139,400 Lbs. (63 230 kg) Minimum Breaking Strength Required = 138,500 Lbs. (62 820 kg) Maximum Load = 27,700 Lbs. (12 560 kg) per line MCC Part No. 719428 Approx. Weight = 2.10 Lbs. Per Ft. (3.12 kg/m) No Load Dia. = 1.010 in. (25.65 mm) to 1.033 in. (26.24 mm)
Whip Line: (Drum 3)	29 mm - 1 770 N/mm ² Wire Rope, Rotation Resistant 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)



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MAXIMUM SPOOLING CAPACITIES	
Drum 9: (Hoist Line)	28 mm Wire Rope - 11 Layers - 4,334 Ft. (1 321m)
Drum 5: (Hoist Line)	25 mm Wire Rope - 6 Layers - 1,104 Ft. (336m) with 19 in. (483 mm) Dia. Lagging
Drum 3: (Whip Line)	29 mm Wire Rope - 9 Layers - 1,164 Ft. (355m) 8 Layers - 1,060 Ft. (323m) with 24½ 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, 16 Ft. (5m) on Drum 5.	

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