Wire Rope Specifications

MLC250

Boom B10:82A with
Luffing Jib No. 149 Attached

Wire Rope Lengths - Hoist Line							
Boom Length		Hoist Line - Drum 1 (Front Drum)		Total Parts of Line	Whip Line - Drum 3 (Auxillary Drum)		Total Parts of Line
Meters	Feet	Meters	Feet		Meters	Feet	
24,4	80.0	415	1,360	14	300	985	10
27,4	90.0	430	1,410	13	305	990	9
30,5	100.0	405	1,330	11	300	985	8
33,5	110.0	405	1,330	10	290	955	7
36,6	120.0	445	1,450	10	275	905	6
39,6	130.0	430	1,405	9	295	970	6
42,7	140.0	415	1,360	8	275	890	5
45,7	150.0	440	1,445	8	290	950	5
48,8	160.0	420	1,370	7	260	845	4
51,8	170.0	440	1,445	7	275	890	4
54,9	180.0	410	1,335	6	290	940	4
57,9	190.0	430	1,405	6	240	790	3
61,0	200.0	390	1,270	5	255	830	3

Note: Hoist 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.

Wire Rope Lengths - Single Hoist Drum (includes all Luffing Jib Lengths)					
Boom Length		Whip Line - Drum 1 or 3 (Front or Auxillary Drum)			
		2 Parts		1 Part	
Meters	Feet	Meters	Feet	Meters	Feet
24,4	80.0	300	990	200	660
27,4	90.0	310	1,020	210	680
30,5	100.0	320	1,050	215	700
33,5	110.0	330	1,080	220	720
36,6	120.0	340	1,110	225	740
39,6	130.0	350	1,140	230	760
42,7	140.0	360	1,170	240	780
45,7	150.0	365	1,200	245	800
48,8	160.0	375	1,230	250	820
51,8	170.0	385	1,260	255	840
54,9	180.0	395	1,290	265	860
57,9	190.0	375	1,230	250	820
61,0	200.0	340	1,115	230	745

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.

Wire Rope Specifications

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Hoist Reeving for Main Load Block - Single Lead Line (Drum 1)							
No. Parts of Line	1	2	3	4	5	6	7
Maximum Load - kg	13 380	26 760	40 140	53 520	66 900	80 290	93 670
Maximum Load - lb	29,500	59,000	88,500	118,000	147,500	177,000	206,500
Maximum Load per Part of Line - kg	13 380	13 380	13 380	13 380	13 380	13 380	13 380
Maximum Load per Part of Line - lb	29,500	29,500	29,500	29,500	29,500	29,500	29,500
No. Parts of Line	8	9	10	11	12	13	14
Maximum Load - kg	107 050	120 430	133 810	147 190	160 570	173 950	187 200
Maximum Load - lb	236,000	265,500	295,000	324,500	354,000	383,500	412,900
Maximum Load per Part of Line - kg	13 380	13 380	13 380	13 380	13 380	13 380	13 160
Maximum Load per Part of Line - lb	29,500	29,500	29,500	29,500	29,500	29,500	29,495

Hoist Reeving for Main Load Block - Single Lead Line (Drum 3)					
No. Parts of Line	1	2	3	4	5
Maximum Load - kg	9 070	18 140	27 210	36 280	45 350
Maximum Load - lb	20,000	40,000	60,000	80,000	100,000
Maximum Load per Part of Line - kg	9 070	9 070	9 070	9 070	9 070
Maximum Load per Part of Line - lb	20,000	20,000	20,000	20,000	20,000
No. Parts of Line	6	7	8	9	10
Maximum Load - kg	54 420	63 490	72 560	81 630	90 700
Maximum Load - lb	120,000	140,000	160,000	180,000	200,000
Maximum Load per Part of Line - kg	9 070	9 070	9 070	9 070	9 070
Maximum Load per Part of Line - lb	20,000	20,000	20,000	20,000	20,000

Warning: Free fall operation with Drum 1 or 2 is limited to 6 710 kg (14,800 lb) per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power shall be used for full line pull. *Permanent brake damage could occur allowing the load to lower uncontrolled.*

Refer to Block Overhaul Weights chart **No. 9901-A** for minimum weight required for block lowering.

Refer to Wire Rope Attributes chart **No. 9910-A** for wire rope requirements.