

Wire Rope Specifications

Liftcrane - Boom No. B45:505-500

with 7,0 m (23.0 ft) Extended Upper Boom Point

Wire Rope Lengths - Single Hoist Drum									
Boom Length		Whip Line Drum 2 or 3 or 6		Hoist Line Drum 1		Total Parts of Line	Hoist Line Drum 2		Total Parts of Line
		1 Part							
Meters	Feet	Meters	Feet	Meters	Feet		Meters	Feet	
35,0	114.8	100	320	305	1,000	6	310	1,010	6
38,0	124.7	105	340	325	1,060	6	330	1,080	6
41,0	134.5	110	360	345	1,130	6	350	1,150	6
44,0	144.4	120	390	365	1,200	6	370	1,220	6
47,0	154.2	125	410	390	1,280	6	395	1,290	6
50,0	164.0	130	420	410	1,340	6	415	1,360	6
53,0	173.9	135	440	430	1,410	6	435	1,420	6
56,0	183.7	140	460	450	1,470	6	455	1,490	6
59,0	193.6	150	490	470	1,540	6	410	1,340	5
62,0	203.4	155	500	490	1,610	6	430	1,410	5
65,0	213.3	160	520	515	1,690	6	445	1,460	5
68,0	223.1	165	540	535	1,750	6	465	1,520	5
71,0	232.9	170	560	555	1,820	6	405	1,320	4
74,0	242.8	180	590	575	1,890	6	420	1,370	4
77,0	252.6	185	610	600	1,960	6	435	1,420	4
80,0	262.5	190	620	620	2,030	6	450	1,470	4
83,0	272.3	195	640	640	2,100	6	460	1,509	4
86,0	282.2	200	660	660	2,160	6	385	1,260	3
89,0	292.0	210	680	585	1,920	5	400	1,310	3

Note: Above hoist line lengths are based on single part lead line. Hoist and whip line lengths 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.

Refer to Block Overhaul Weights chart **No. 9413-A** for minimum weight required for block lowering.

Hoist Reeving for Main Load Block - Single Lead Line (Drum 1 or 2)						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - kg	16 670	33 340	50 010	66 680	83 350	100 000
Maximum Load - lb	36,760	73,520	110,280	147,040	183,800	220,500
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670	16 670	16 666
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760	36,760	36,750

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Hoist Reeving for Whip Load Block - Single Lead Line (Drum 6)	
No. Parts of Line	1
Maximum Load - kg	13 600
Maximum Load - lb	30,000
Maximum Load per Part of Line - kg	13 600
Maximum Load per Part of Line - lb	30,000

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 2 or 3)	
No. Parts of Line	1
Maximum Load - kg	16 600
Maximum Load - lb	36,700
Maximum Load per Part of Line - kg	16 670
Maximum Load per Part of Line - lb	36,760

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<u>Rotation Resistant Wire Rope</u> Hoist Line: 28 mm (Drum 1): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 83 370 kg (183,800 lb) Approx. Weight = 4,2 kg/m (2.8 lb/ft) No Load Dia. = 28.83 mm (1.135 in) to 29.08 mm (1.145 in) MCC Reference No. 81025289, 81026075, or 81024556 Whip/Auxiliary Line: 28 mm (Drums 2, 3 & 6): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 83 370 kg (183,800 lb) Approx. Weight = 4,2 kg/m (2.8 lb/ft) No Load Dia. = 28.83 mm (1.135 in) to 29.08 mm (1.145 in) MCC Reference No. 81025289, 81026075, or 81024556

Maximum Spooling Capacities	
Drum 1: (Hoist Line)	28 mm Wire Rope - 8 Layers - 939 m (3,082 ft)
Drum 2: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft)
Drum 3: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft)
Drum 6: (Auxiliary Line)	28 mm Wire Rope - 7 Layers - 400 m (1,312 ft)
7 m (22 ft) is deducted from maximum spooling capacity for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 9339-A** and Load Block Reeving in the Operator Manual.

Warning: Free fall operation is limited to 8 300 kg (18,300 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.*