



# Wire Rope Specifications

# 2250 SERIES 1, 2, 3

Liftcrane - Boom No. 44 With Heavy Lift Top  
Luffing Jib No. 133 or No. 133A Attached

European Standards

Wire Rope Lengths					
Boom Length		Hoist Line Right Rear Drum		2250 Maximum Required Parts of Line	2250 SERIES 2, 3 Maximum Required Parts of Line
80	24.4	1475	450	16	16
90	27.4	1625	495	15	16
100	30.5	1700	518	13	15
110	33.5	1700	518	12	12
120	36.6	1700	518	11	11
130	39.6	1700	518	9	11
140	42.7	1775	541	9	11
150	45.7	1775	541	8	9
160	48.8	1775	541	8	9
170	51.8	1775	541	7	9
180	54.9	1775	541	6	8
190	57.9	1775	541	6	7
200	61.0	1775	541	6	6
210	64.0	1775	541	6	6

**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.

Hoist Reeving for Main Load Block								
No. Parts of Line	1	2	3	4	5	6	7	8
Maximum Load - Lbs.	30,000	60,000	90,000	120,000	150,000	180,000	210,000	240,000
Maximum Load - kg	13 610	27 220	40 820	54 430	68 040	81 650	95 250	108 860
No. Parts of Line	9	10	11	12	13	14	15	16
Maximum Load - Lbs.	270,000	300,000	330,000	360,000	390,000	420,000	450,000	477,100
Maximum Load - kg	122 470	136 080	149 690	163 290	176 900	190 510	204 120	216 400



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Rotation Resistant Wire Rope - 4.5 : 1 Safety Factor		
Hoist Line:	29 mm -	1 960 N/mm <sup>2</sup> Wire Rope Right Regular Lay MCC Part No. 719373 Minimum Breaking Strength = 165,000 Lbs. (734.0 kN) Approx. Weight = 2.85 Lbs. Per Ft. (4.25 kg/m)
Whip Line:	29 mm -	1 770 N/mm <sup>2</sup> 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)

Maximum Spooling Capacities		
Right Rear Drum: (Hoist Line)	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)	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)	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**. See chart **No. 8045-A** for Whip Line Specifications.