



Wire Rope Specifications

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

M-250
M-250 SERIES 2, 3

| Wire Rope Lengths | | | | | |
|-------------------|--------|----------------------------|--------|--------------------------------------|--|
| Boom Length | | Hoist Line Right Rear Drum | | M-250 Maximum Required Parts of Line | M-250 Series 2, 3 Maximum Required Parts of Line |
| Ft. | Meters | Ft. | Meters | | |
| 80 | 24.4 | 1475 | 450 | 16 | 16 |
| 90 | 27.4 | 1625 | 495 | 16 | 16 |
| 100 | 30.5 | 1700 | 518 | 15 | 15 |
| 110 | 33.5 | 1700 | 518 | 12 | 12 |
| 120 | 36.6 | 1700 | 518 | 11 | 11 |
| 130 | 39.6 | 1700 | 518 | 11 | 11 |
| 140 | 42.7 | 1775 | 541 | 11 | 11 |
| 150 | 45.7 | 1775 | 541 | 9 | 9 |
| 160 | 48.8 | 1775 | 541 | 9 | 9 |
| 170 | 51.8 | 1775 | 541 | 9 | 9 |
| 180 | 54.9 | 1775 | 541 | 8 | 8 |
| 190 | 57.9 | 1775 | 541 | 6 | 7 |
| 200 | 61.0 | 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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M-250

M-250 SERIES 2, 3

| Wire Rope Specifications | | |
|--------------------------|-----------------------|---|
| Hoist Line: | 1-1/8 in. (28.6 mm) - | 1 960 N/mm ² Wire Rope Minimum Breaking Strength = 154,900 Lbs. (70 260 kg) MCC Part No. 719375 Approx. Weight = 2.70 Lbs. Per Ft. (4.02 kg/m) |
| | | Or |
| | 29 mm (1-1/8 in.) - | 1 770 N/mm ² Wire Rope Minimum Breaking Strength = 154,700 Lbs. (70 170 kg) MCC Part No. 719374 Approx. Weight = 2.85 Lbs. Per Ft. (4.25 kg/m) |
| Whip Line: | 1-1/8 in. (28.6 mm) - | 1 960 N/mm ² Wire Rope Minimum Breaking Strength = 154,900 Lbs. (70 260 kg) Maximum Load = 30,000 Lbs. (13 610 kg) per line MCC Part No. 719375 Approx. Weight = 2.70 Lbs. Per Ft. (4.02 kg/m) |
| | | Or |
| | 29 mm (1-1/8 in.) - | 1 770 N/mm ² 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) |



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Maximum Spooling Capacities

| | | |
|----------------------------------|--|--|
| Right Rear Drum: (Hoist Line) | 1-1/8 in. (28.6 mm) Wire Rope - 8 Layers - | 2,411 Ft. (735m) |
| | | 2,566 Ft. (782m) with 24½ in. (622 mm) Dia. Lagging |
| | 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) | 1-1/8 in. (28.6 mm) Wire Rope - 9 Layers - | 1,173 Ft. (358m) |
| | | 8 Layers - 1,068 Ft. (326m) with 24½ in. (622 mm) Dia. Lagging |
| | 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: (Whip Line) | 1-1/8 in. (28.6 mm) Wire Rope - 8 Layers - | 2,028 Ft. (618m) |
| | | 2,158 Ft. (658m) with 24½ in. (622 mm) Dia. Lagging |
| | 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. 7638-A** for Whip Line Specifications.