



# Wire Rope Specifications

Liftcrane - Boom No. 49A-44 With Heavy Lift Top

**MAX-ER 400**  
**On 2250 or M-250**

| Hoist Line Wire Rope Lengths |        |                          |        |               |                     |        |               |            |        |               |
|------------------------------|--------|--------------------------|--------|---------------|---------------------|--------|---------------|------------|--------|---------------|
| Boom Length                  |        | Maximum Capacity         |        |               | Full Hoisting Range |        |               |            |        |               |
|                              |        | Right Rear or Front Drum |        |               | Right Rear Drum     |        |               | Front Drum |        |               |
| Ft.                          | Meters | Ft.                      | Meters | Parts of Line | Ft.                 | Meters | Parts of Line | Ft.        | Meters | Parts of Line |
| 100                          | 30.5   | 2050                     | 625    | 18            | 2050                | 625    | 18            | 2050       | 625    | 18            |
| 120                          | 36.6   | 2425                     | 739    | 18            | 2425                | 739    | 18            | 2375       | 724    | 17            |
| 140                          | 42.7   | 2800                     | 853    | 18            | 2800                | 853    | 18            | 2400       | 732    | 15            |
| 160                          | 48.8   | 3175                     | 968    | 18            | 2800                | 853    | 15            | 2400       | 732    | 13            |
| 180                          | 54.9   | 3375                     | 1029   | 17            | 2800                | 853    | 13            | 2400       | 732    | 11            |
| 200                          | 61.0   | 3525                     | 1074   | 16            | 2800                | 853    | 12            | 2400       | 732    | 10            |
| 220                          | 67.1   | 3525                     | 1074   | 13            | 2800                | 853    | 11            | 2400       | 732    | 9             |
| 240                          | 73.2   | 3525                     | 1074   | 12            | 2800                | 853    | 10            | 2400       | 732    | 8             |
| 260                          | 79.2   | 3525                     | 1074   | 10            | 2800                | 853    | 9             | 2400       | 732    | 8             |
| 280                          | 85.3   | 3525                     | 1074   | 9             | 2800                | 853    | 8             | 2400       | 732    | 7             |
| 300                          | 91.4   | 3525                     | 1074   | 7             | 2800                | 853    | 7             | 2400       | 732    | 6             |

Maximum block travel with maximum parts of line will be restricted when hoist line length exceeds 2,800 Ft. (853m) using right rear drum or 2,400 Ft. (732m) using front drum.

| Whip Line Wire Rope Lengths |      |                                        |        |        |        |
|-----------------------------|------|----------------------------------------|--------|--------|--------|
| Boom or Boom and Jib Length |      | Whip Line Left Rear or Right Rear Drum |        |        |        |
|                             |      | 1 Part                                 |        | 2 Part |        |
|                             |      | Ft.                                    | Meters | Ft.    | Meters |
| 100                         | 30.5 | 250                                    | 76     | 350    | 107    |
| 120                         | 36.6 | 290                                    | 88     | 400    | 122    |
| 140                         | 42.7 | 330                                    | 101    | 475    | 145    |
| 160                         | 48.8 | 370                                    | 113    | 525    | 160    |
| 180                         | 54.9 | 410                                    | 125    | 600    | 183    |
| 200                         | 61.0 | 450                                    | 137    | 650    | 198    |
| 220                         | 67.1 | 490                                    | 149    | 725    | 221    |
| 240                         | 73.2 | 530                                    | 162    | 775    | 236    |
| 260                         | 79.2 | 570                                    | 174    | 825    | 251    |
| 280                         | 85.3 | 610                                    | 186    | 900    | 274    |
| 300                         | 91.4 | 650                                    | 198    | 950    | 290    |

**Note:** Hoist line and whip line lengths given in tables 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.



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| Hoist Reeving for Main Load Block |         |         |         |         |         |         |
|-----------------------------------|---------|---------|---------|---------|---------|---------|
| No. Parts of Line                 | 1       | 2       | 3       | 4       | 5       | 6       |
| Maximum Load - Lbs.               | 30,000  | 60,000  | 90,000  | 120,000 | 150,000 | 180,000 |
| Maximum Load - kg                 | 13 610  | 27 220  | 40 820  | 54 430  | 68 040  | 81 650  |
| No. Parts of Line                 | 7       | 8       | 9       | 10      | 11      | 12      |
| Maximum Load - Lbs.               | 210,000 | 240,000 | 270,000 | 300,000 | 330,000 | 360,000 |
| Maximum Load - kg                 | 95 250  | 108 860 | 122 470 | 136 080 | 149 690 | 163 290 |
| No. Parts of Line                 | 13      | 14      | 15      | 16      | 17      | 18      |
| Maximum Load - Lbs.               | 390,000 | 420,000 | 450,000 | 480,000 | 500,000 | 500,000 |
| Maximum Load - kg                 | 176 900 | 190 510 | 204 120 | 217 720 | 226 700 | 226 700 |

| Wire Rope Specifications |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hoist Line:              | 1-1/8 in. (28.6 mm) - | 1 960 N/mm <sup>2</sup> Wire Rope<br>Minimum Breaking Strength = 154,900 Lbs. (70 260 kg)<br>MCC Part No. 719375<br>Approx. Weight = 2.70 Lbs. Per Ft. (4.02 kg/m)<br>Or<br>29 mm (1-1/8 in.) - 1 770 N/mm <sup>2</sup> Wire Rope<br>Minimum Breaking Strength = 154,700 Lbs. (70 170 kg)<br>MCC Part No. 719374<br>Approx. Weight = 2.85 Lbs. Per Ft. (4.25 kg/m)                                                                                                       |
| Whip Line:               | 1-1/8 in. (28.6 mm) - | 1 960 N/mm <sup>2</sup> Wire Rope<br>Minimum Breaking Strength = 154,900 Lbs. (70 260 kg)<br>Maximum Load = 30,000 Lbs. (13 610 kg) per line<br>MCC Part No. 719375<br>Approx. Weight = 2.70 Lbs. Per Ft. (4.02 kg/m)<br>Or<br>29 mm (1-1/8 in.) - 1 770 N/mm <sup>2</sup> Wire Rope<br>Minimum Breaking Strength = 154,700 Lbs. (70 170 kg)<br>Maximum Load = 30,000 Lbs. (13 610 kg) per line<br>MCC Part No. 719374<br>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<br>Minimum Breaking Strength = 13,100 Lbs. (5 940 kg)<br>MCC Part No. 719019<br>Recommended Length = 800 Ft. (244m)                                                                                                                                                                                                                                                                                           |



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| Maximum Spooling Capacities                                                                    |                                                                |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Right Rear Drum:                                                                               | 1-1/8 in. (28.6 mm) Wire Rope - 8 Layers - 2,411 Ft. (735m)    |
| (Hoist Line)                                                                                   | 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                                                                                 | 1-1/8 in. (28.6 mm) Wire Rope - 9 Layers - 1,173 Ft. (358m)    |
| (Whip Line)                                                                                    | 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:                                                                                    | 1-1/8 in. (28.6 mm) Wire Rope - 8 Layers - 2,028 Ft. (618m)    |
| (Hoist Line)                                                                                   | 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** (M-250) or **No. 6124-A** (2250).