

# Wire Rope Specifications

Liftcrane - Fixed Jib No. 140 On  
Luffing Jib No. 133 or No. 133A On  
Boom No. 49A-44 With Heavy Lift Top

**MAX-ER 225**  
**On 2250 or**  
**M-250**

| Wire Rope Lengths                               |        |                                                        |        |        |        |
|-------------------------------------------------|--------|--------------------------------------------------------|--------|--------|--------|
| Boom,<br>Luffing Jib<br>and Fixed Jib<br>Length |        | Fixed Jib<br>Whip Line<br>Left Rear or Right Rear Drum |        |        |        |
|                                                 |        | 1 Part                                                 |        | 2 Part |        |
| Ft.                                             | Meters | Ft.                                                    | Meters | Ft.    | Meters |
| 460                                             | 140.2  | 960                                                    | 293    | 1425   | 434    |
| 470                                             | 143.3  | 980                                                    | 299    | 1450   | 442    |
| 480                                             | 146.3  | 1000                                                   | 305    | 1475   | 450    |
| 490                                             | 149.4  | 1020                                                   | 311    | 1525   | 465    |
| 500                                             | 152.4  | 1040                                                   | 317    | 1550   | 472    |
| 510                                             | 155.4  | 1060                                                   | 323    | 1575   | 480    |
| 520                                             | 158.5  | 1080                                                   | 329    | 1600   | 488    |
| 530                                             | 161.5  | 1100                                                   | 335    | 1625   | 495    |
| 540                                             | 164.6  | 1120                                                   | 341    | 1675   | 511    |
| 550                                             | 167.6  | 1140                                                   | 347    | ---    | ---    |
| 560                                             | 170.7  | 1160                                                   | 354    | ---    | ---    |
| 570                                             | 175.3  | 1180                                                   | 360    | ---    | ---    |
| 580                                             | 176.8  | 1200                                                   | 366    | ---    | ---    |
| 590                                             | 179.8  | 1220                                                   | 372    | ---    | ---    |
| 600                                             | 182.9  | 1240                                                   | 378    | ---    | ---    |
| 610                                             | 185.9  | 1260                                                   | 384    | ---    | ---    |
| 620                                             | 182.9  | 1280                                                   | 390    | ---    | ---    |

**Note:** Whip line lengths given in table will allow hook to touch ground. When hook 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 hook travel below ground is required.

| Wire Rope Specifications |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Whip Line:               | <p>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)</p> <p>Or</p> <p>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)</p> |



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## Maximum Spooling Capacities

|                                             |                                            |                                                                                    |
|---------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------|
| Right Rear Drum:<br>(Hoist or<br>Whip 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)<br>2,546 Ft. (776m) with 24½ in. (622 mm) Dia. Lagging            |
| Left Rear Drum<br>(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)<br>8 Layers - 1,060 Ft. (323m) with 24½ in. (622 mm) Dia. Lagging |
| Front Drum:<br>(Hoist 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)<br>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).