

**L500-160**  
**Nominal Rating: 250 Tons Maximum Lifting Capacity**  
**Rev 2.0**  
**Rev Date: 02/29/2016**  
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**IMPERIAL UNITS**

| Reach<br>(ft) | Boom Angle<br>(Deg) | Onboard<br>Load (Lbs) | Offboard<br>Load (Lbs) |
|---------------|---------------------|-----------------------|------------------------|
| 29.4          | 81.9                | 388,900               | 258,625                |
| 30.0          | 81.7                | 384,475               | 255,675                |
| 35.0          | 79.8                | 350,500               | 233,075                |
| 40.0          | 78.0                | 321,725               | 213,950                |
| 45.0          | 76.2                | 296,825               | 197,375                |
| 50.0          | 74.3                | 274,900               | 182,800                |
| 55.0          | 72.4                | 255,350               | 169,800                |
| 60.0          | 70.5                | 237,675               | 158,050                |
| 65.0          | 68.6                | 221,550               | 147,325                |
| 70.0          | 66.7                | 206,700               | 137,450                |
| 75.0          | 64.7                | 192,925               | 128,300                |
| 80.0          | 62.7                | 180,050               | 119,725                |
| 85.0          | 60.6                | 167,975               | 111,700                |
| 90.0          | 58.5                | 156,575               | 104,125                |
| 95.0          | 56.4                | 145,775               | 96,925                 |
| 100.0         | 54.2                | 135,475               | 90,100                 |
| 105.0         | 52.0                | 125,650               | 83,550                 |
| 110.0         | 49.6                | 116,250               | 77,300                 |
| 115.0         | 47.2                | 107,225               | 71,300                 |
| 120.0         | 44.7                | 98,550                | 65,525                 |
| 125.0         | 42.1                | 90,175                | 59,950                 |
| 130.0         | 39.4                | 82,075                | 54,575                 |
| 135.0         | 36.4                | 74,225                | 49,350                 |
| 140.0         | 33.3                | 66,625                | 44,300                 |
| 145.0         | 29.8                | 59,225                | 39,375                 |
| 150.0         | 26.0                | 52,000                | 34,575                 |
| 155.0         | 21.5                | 44,900                | 29,850                 |
| 160.0         | 15.9                | 37,800                | 25,125                 |
| 165.0         | 6.7                 | 30,075                | 20,000                 |
| 166.1         | 0.0                 | 27,075                | 18,000                 |

**METRIC UNITS**

| Reach<br>(m) | Boom<br>Angle<br>(Deg) | Onboard<br>Load (Kgs) | Offboard<br>Load (Kgs) |
|--------------|------------------------|-----------------------|------------------------|
| 8.96         | 81.9                   | 176,400               | 117,310                |
| 9.14         | 81.7                   | 174,390               | 115,970                |
| 10.67        | 79.8                   | 158,980               | 105,720                |
| 12.19        | 78.0                   | 145,930               | 97,040                 |
| 13.72        | 76.2                   | 134,630               | 89,520                 |
| 15.24        | 74.3                   | 124,690               | 82,910                 |
| 16.76        | 72.4                   | 115,820               | 77,020                 |
| 18.29        | 70.5                   | 107,800               | 71,690                 |
| 19.81        | 68.6                   | 100,490               | 66,820                 |
| 21.34        | 66.7                   | 93,750                | 62,340                 |
| 22.86        | 64.7                   | 87,510                | 58,190                 |
| 24.38        | 62.7                   | 81,670                | 54,300                 |
| 25.91        | 60.6                   | 76,190                | 50,660                 |
| 27.43        | 58.5                   | 71,020                | 47,230                 |
| 28.96        | 56.4                   | 66,120                | 43,960                 |
| 30.48        | 54.2                   | 61,450                | 40,860                 |
| 32.00        | 52.0                   | 56,990                | 37,890                 |
| 33.53        | 49.6                   | 52,730                | 35,060                 |
| 35.05        | 47.2                   | 48,630                | 32,340                 |
| 36.58        | 44.7                   | 44,700                | 29,720                 |
| 38.10        | 42.1                   | 40,900                | 27,190                 |
| 39.62        | 39.4                   | 37,220                | 24,750                 |
| 41.15        | 36.4                   | 33,660                | 22,380                 |
| 42.67        | 33.3                   | 30,220                | 20,090                 |
| 44.20        | 29.8                   | 26,860                | 17,860                 |
| 45.72        | 26.0                   | 23,580                | 15,680                 |
| 47.24        | 21.5                   | 20,360                | 13,540                 |
| 48.77        | 15.9                   | 17,140                | 11,390                 |
| 50.29        | 6.7                    | 13,640                | 9,070                  |
| 50.63        | 0.0                    | 12,280                | 8,160                  |

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| API Maximum Overturning Moment (ft-lbs.) | 31,070,499 | API Maximum Overturning Moment (tonne-meter) | 4,295.65 |
| Corresponding Axial Force (lbs.)         | 543,155    | Corresponding Axial Force (kgs.)             | 246,375  |
| Maximum Axial Force (lbs.)               | 1,007,820  | Maximum Axial Force (kgs.)                   | 457,144  |
| Corresponding Moment (ft-lbs.)           | 19,309,570 | Corresponding Moment (tonne-meter)           | 2,669.64 |
| Basic Crane Weight (lbs.)                | 229,990    | Basic Crane Weight (kgs.)                    | 104,325  |
| Center of Gravity (ft)                   | 32.68      | Center of Gravity (m)                        | 9.96     |