



# MLC300

with Fixed Position Counterweight

**Maximum capacity:** 330 USt (300 t)

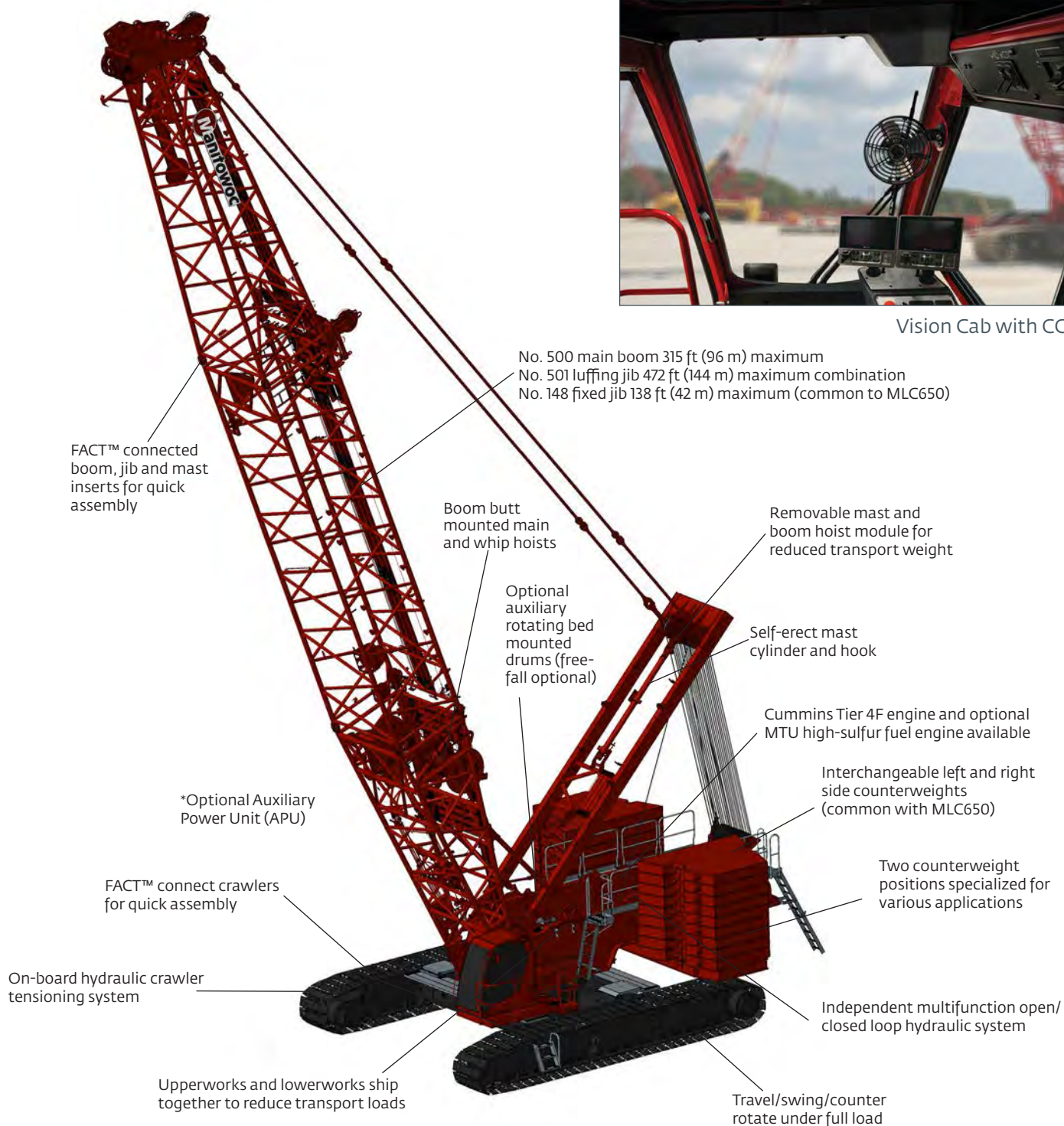
**Maximum load moment:** 14,330 ft-kip (1981 m-t)

**Maximum boom length:** 315 ft (96 m)

**Maximum luffing jib length:** 315 ft (96 m)



Vision Cab with CCS



Contact your local dealer for more information; or find one on the dealer locator at [www.manitowoc.com](http://www.manitowoc.com)

## Benefits

### Unmatched capacity

- Strongest load charts in its class
- Travel, swing and counter-rotate with full rated capacity

### Optimized productivity

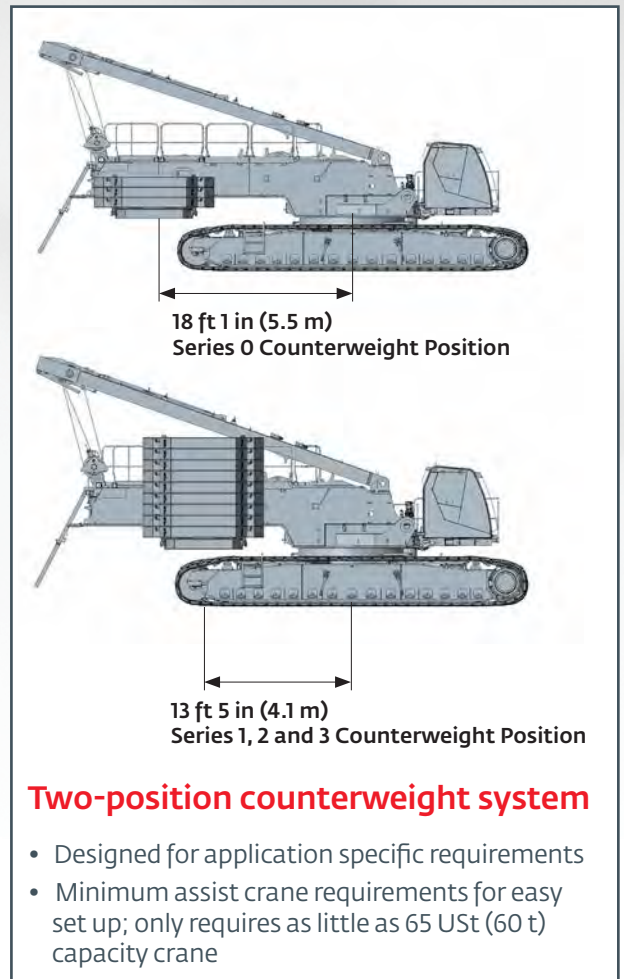
- Upperworks and carbody shipped together (reduced set up time)
- Raise full boom and luffing jib combinations without assist (no outriggers)
- Self-erect mast cylinder (reduced setup time)
- FACT™ connection technology on boom and crawler connections (easy and reliable assembly/disassembly)
- Improved boom handling lugs (reduced setup time)
- No carbody counterweights required (reduced setup time)

## Vision cab with Crane Control System (CCS)

- CCS with user-friendly interface, two full graphic displays mounted horizontally for better visibility, a jog dial for easier data input and ergonomic joysticks
- Fully enclosed and insulated galvanized steel module
- Power cab tilt
- Swing and travel alarms ensure maximum operator awareness
- Operator's station swings over front of rotating bed for easy transportation
- Nylon protective window covers

## Crawler tensioning system

- Each crawler is equipped with dedicated hydraulically activated cylinder and hydraulic supply
- Allows independent track tension adjustment via crane setup remote and standard hydraulic connection



## Transport

- Designed to be transported globally by optimizing component weights and dimensions
- Boom inserts are designed to allow luffing jib inserts to ship within the boom inserts for cost effective transport

## PRELIMINARY - Capacities

### Main boom

| B10:500 boom                        |                  |         |         |                                        |         |       |       |                                       |       |       |       |       |
|-------------------------------------|------------------|---------|---------|----------------------------------------|---------|-------|-------|---------------------------------------|-------|-------|-------|-------|
| Series 3 - 440,900 lb at 13 ft 5 in |                  |         |         | ** Series 2 - 396,800 lb at 13 ft 5 in |         |       |       | * Series 1 - 308,600 lb at 13 ft 5 in |       |       |       |       |
| 360°                                | lb x 1000        |         |         |                                        |         |       |       |                                       |       |       |       |       |
| Radius (ft)                         | Boom length (ft) |         |         |                                        |         |       |       |                                       |       |       |       |       |
|                                     | 98               | 118     | 138     | 157                                    | 177     | 197   | 217   | 236                                   | 256   | 276   | 295   | 315   |
| 18                                  | 648.1*           |         |         |                                        |         |       |       |                                       |       |       |       |       |
| 20                                  | 648.1*           | 626.9*  |         |                                        |         |       |       |                                       |       |       |       |       |
| 24                                  | 563.6*           | 546.5*  | 527.9*  | 508.0*                                 | 481.2*  |       |       |                                       |       |       |       |       |
| 28                                  | 452.2*           | 451.3*  | 449.9*  | 475.1**                                | 458.3** | 420.8 | 373.4 |                                       |       |       |       |       |
| 32                                  | 360.6*           | 437.1** | 435.8** | 427.9**                                | 424.2   | 399.6 | 357.4 | 307.7                                 | 256.4 |       |       |       |
| 36                                  | 363.3**          | 362.7** | 361.7** | 392.5                                  | 386.5   | 378.1 | 339.9 | 302.8                                 | 254.3 | 215.1 | 181.9 | 156.7 |
| 40                                  | 309.4**          | 336.8   | 335.8   | 334.5                                  | 333.8   | 332.0 | 323.3 | 289.0                                 | 252.3 | 213.3 | 180.3 | 155.2 |
| 50                                  | 223.0**          | 243.4   | 242.6   | 241.4                                  | 240.9   | 239.3 | 238.6 | 236.7                                 | 235.9 | 208.8 | 172.4 | 151.7 |
| 60                                  | 171.9**          | 188.1   | 187.4   | 186.2                                  | 185.8   | 184.3 | 183.6 | 181.8                                 | 181.0 | 179.2 | 158.3 | 148.5 |
| 70                                  | 138.0**          | 151.5   | 150.8   | 149.7                                  | 149.3   | 147.8 | 147.2 | 145.4                                 | 144.6 | 142.8 | 142.2 | 140.4 |
| 80                                  | 113.8**          | 125.4   | 124.8   | 123.7                                  | 123.4   | 121.9 | 121.3 | 119.5                                 | 118.7 | 116.9 | 116.4 | 114.6 |
| 90                                  | 95.7**           | 105.9   | 105.4   | 104.3                                  | 104.0   | 102.5 | 101.9 | 100.1                                 | 99.3  | 97.5  | 97.0  | 95.2  |
| 100                                 | 81.2**           | 90.7    | 90.3    | 89.2                                   | 88.9    | 87.4  | 86.8  | 85.1                                  | 84.2  | 82.5  | 82.0  | 80.2  |
| 110                                 |                  | 78.5    | 78.1    | 77.1                                   | 76.9    | 75.3  | 74.8  | 73.0                                  | 72.2  | 70.4  | 69.9  | 68.1  |
| 120                                 |                  |         | 68.2    | 67.2                                   | 67.0    | 65.5  | 65.0  | 63.2                                  | 62.4  | 60.6  | 60.1  | 58.3  |
| 130                                 |                  |         | 59.8    | 58.9                                   | 58.8    | 57.3  | 56.7  | 55.0                                  | 54.2  | 52.4  | 51.9  | 50.1  |
| 140                                 |                  |         |         | 51.9                                   | 51.8    | 50.3  | 49.8  | 48.0                                  | 47.2  | 45.4  | 45.0  | 43.2  |
| 150                                 |                  |         |         | 45.8                                   | 45.8    | 44.3  | 43.8  | 42.1                                  | 41.3  | 39.5  | 39.1  | 37.2  |
| 160                                 |                  |         |         |                                        | 40.5    | 39.1  | 38.7  | 36.9                                  | 36.1  | 34.3  | 33.9  | 32.1  |
| 170                                 |                  |         |         |                                        | 35.8    | 34.5  | 34.1  | 32.4                                  | 31.6  | 29.8  | 29.4  | 27.6  |
| 180                                 |                  |         |         |                                        |         | 30.5  | 30.1  | 28.4                                  | 27.6  | 25.8  | 25.4  | 23.6  |
| 190                                 |                  |         |         |                                        |         | 26.8  | 26.5  | 24.8                                  | 24.0  | 22.2  | 21.9  | 20.0  |
| 200                                 |                  |         |         |                                        |         |       | 23.2  | 21.6                                  | 20.8  | 19.0  | 18.7  | 16.9  |
| 220                                 |                  |         |         |                                        |         |       |       | 16.0                                  | 15.3  | 13.5  | 13.2  | 11.1  |
| 240                                 |                  |         |         |                                        |         |       |       |                                       | 10.5  |       |       |       |

## PRELIMINARY - Capacities

### Duty cycle and clamshell

Clamshell capacities are denoted by **BOLD**

| B10:500 boom limited duty cycle and clamshell      |                  |             |             |
|----------------------------------------------------|------------------|-------------|-------------|
| Counterweight: Series 0 - 176,552 lb at 18 ft 1 in |                  |             |             |
| 360°                                               | lb x 1000        |             |             |
| Radius (ft)                                        | Boom length (ft) |             |             |
|                                                    | 98               | 118         | 138         |
| 25                                                 | 44.0             | 44.0        |             |
| 30                                                 | 44.0             | 44.0        | 44.0        |
| 40                                                 | 44.0             | 44.0        | 44.0        |
| 50                                                 | 44.0             | 44.0        | 44.0        |
| 60                                                 | <b>44.0</b>      | <b>44.0</b> | 44.0        |
| 70                                                 | <b>44.0</b>      | <b>44.0</b> | <b>44.0</b> |
| 80                                                 | <b>44.0</b>      | <b>44.0</b> | <b>44.0</b> |
| 90                                                 | 40.9             | <b>39.8</b> | <b>38.8</b> |
| 100                                                |                  | <b>33.4</b> | <b>32.6</b> |
| 110                                                |                  | 27.9        | <b>27.3</b> |
| 120                                                |                  |             | <b>22.6</b> |
| 130                                                |                  |             | 18.3        |



## PRELIMINARY - Working range

### LJ10:501 luffing jib on B10:500 boom; 86° boom angle

Series 3 - 440,900 lb at 13 ft 5 in

360°

lb x 1000

#### 98 ft boom

| Radius (ft) | Luffing Jib Length (ft) |       |       |      |      |
|-------------|-------------------------|-------|-------|------|------|
|             | 79                      | 138   | 197   | 256  | 295  |
| 45          | 278.0                   |       |       |      |      |
| 50          | 249.6                   |       |       |      |      |
| 60          | 198.4                   | 190.5 |       |      |      |
| 70          | 163.9                   | 159.4 | 130.3 |      |      |
| 80          | 139.1                   | 135.2 | 125.4 |      |      |
| 90          | 120.1                   | 117.0 | 112.7 | 73.0 |      |
| 100         |                         | 102.7 | 98.7  | 71.1 | 49.3 |
| 120         |                         | 81.8  | 78.2  | 67.6 | 46.2 |
| 140         |                         | 67.0  | 63.8  | 60.3 | 43.5 |
| 160         |                         |       | 53.2  | 49.8 | 41.1 |
| 180         |                         |       | 45.0  | 41.8 | 39.0 |
| 200         |                         |       | 38.4  | 35.4 | 33.3 |
| 220         |                         |       |       | 30.1 | 28.1 |
| 240         |                         |       |       | 25.8 | 23.8 |
| 260         |                         |       |       | 22.0 | 20.2 |
| 280         |                         |       |       |      | 17.1 |

#### 138 ft boom

| Radius (ft) | Luffing Jib Length (ft) |       |       |      |      |
|-------------|-------------------------|-------|-------|------|------|
|             | 79                      | 138   | 197   | 256  | 295  |
| 45          | 278.8                   |       |       |      |      |
| 50          | 243.9                   |       |       |      |      |
| 60          | 194.4                   | 187.3 |       |      |      |
| 70          | 160.9                   | 156.1 |       |      |      |
| 80          | 136.6                   | 132.6 | 116.2 |      |      |
| 90          | 118.2                   | 114.8 | 110.4 | 67.3 |      |
| 100         |                         | 100.8 | 96.7  | 66.0 | 46.5 |
| 120         |                         | 80.3  | 76.6  | 63.4 | 44.1 |
| 140         |                         | 65.9  | 62.6  | 59.0 | 41.9 |
| 160         |                         |       | 52.1  | 48.7 | 39.8 |
| 180         |                         |       | 44.1  | 40.8 | 37.9 |
| 200         |                         |       | 37.6  | 34.5 | 32.4 |
| 220         |                         |       |       | 29.4 | 27.4 |
| 240         |                         |       |       | 25.1 | 23.1 |
| 260         |                         |       |       | 21.4 | 19.6 |
| 280         |                         |       |       |      | 16.5 |

#### 157 ft boom

| Radius (ft) | Luffing Jib Length (ft) |       |       |      |      |
|-------------|-------------------------|-------|-------|------|------|
|             | 79                      | 138   | 197   | 256  | 295  |
| 45          | 273.2                   |       |       |      |      |
| 50          | 240.8                   |       |       |      |      |
| 60          | 192.1                   | 183.8 |       |      |      |
| 70          | 159.2                   | 154.3 |       |      |      |
| 80          | 135.3                   | 131.1 | 107.5 |      |      |
| 90          | 117.1                   | 113.6 | 106.3 | 63.9 |      |
| 100         |                         | 99.8  | 95.6  | 62.9 | 44.7 |
| 120         |                         | 79.5  | 75.8  | 60.6 | 42.7 |
| 140         |                         | 65.3  | 61.9  | 58.2 | 40.7 |
| 160         |                         |       | 51.6  | 48.1 | 38.8 |
| 180         |                         |       | 43.6  | 40.3 | 37.1 |
| 200         |                         |       | 37.2  | 34.0 | 31.9 |
| 220         |                         |       |       | 29.0 | 26.9 |
| 240         |                         |       |       | 24.7 | 22.7 |
| 260         |                         |       |       | 21.1 | 19.2 |
| 280         |                         |       |       |      | 16.2 |
| 300         |                         |       |       |      | 13.5 |

#### 197 ft boom

| Radius (ft) | Luffing Jib Length (ft) |       |       |       |
|-------------|-------------------------|-------|-------|-------|
|             | 79                      | 118   | 157   | 177   |
| 45          | 226.7                   |       |       |       |
| 50          | 213.6                   |       |       |       |
| 60          | 187.4                   | 164.0 |       |       |
| 70          | 155.4                   | 152.3 | 121.9 | 105.7 |
| 80          | 132.3                   | 129.6 | 119.1 | 103.9 |
| 90          | 114.6                   | 112.4 | 109.2 | 101.7 |
| 100         |                         | 98.9  | 95.9  | 94.4  |
| 120         |                         | 78.9  | 76.3  | 74.9  |
| 140         |                         |       | 62.5  | 61.3  |
| 160         |                         |       | 52.2  | 51.1  |
| 180         |                         |       |       | 43.2  |



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