

Manitex



TC500.1

50-ton (45, 4 mt) TELESCOPIC CRANE
TC500 SERIES PRODUCT GUIDE

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Refer to the appropriate Operator's Manual and Load Charts for instructions on the proper use of this equipment to determine allowable crane lifting capacities, assembly and operating procedures.

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










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KEY

| | |
|---|--|
|  | Operator aids |
|  | Cab |
|  | Heating / Air conditioning |
|  | Controls |
|  | Hoist speed |
|  | 1 - Main hoist 2 - Auxiliary winch 3 - Recovery winch |
|  | Rope length |
|  | Rope - Standard/optional |
|  | Rope diameter |
|  | Permissible line pull |
|  | Maximum line pull |
|  | Slewing / Allowable slewing range |
|  | Slewing gears |
|  | Slewing brake |
|  | Outriggers / Lifting on outriggers |
|  | 2-Person man basket |
|  | Counterweight |
|  | Radio remote control |

| | |
|---|---------------------------------------|
|  | Hook block |
|  | Distance from hook to head sheave pin |
|  | Hook and ball |
|  | Hydraulics |
|  | Boom elevation angle |
|  | Max. boom length with extension |
|  | Boom with extension retracted |
|  | Boom angle |
|  | Telescoping mode |
|  | Working radius |
|  | Boom length |
|  | Hydraulic actuated boom |
|  | Full power mechanical synchronized |
|  | Boom head / Hook block dimension |
|  | Main boom with auxiliary head |
|  | Tip height |



THE TC500 SERIES TELESCOPIC CRANE

Versatile. Affordable. User friendly.

The TC500 series telescopic cranes are built to meet the wide-ranging needs of owner operators who may use it for residential construction one day and bridge work the next. No matter what the task, the 50-ton line of telescopic cranes is designed to get you to the job and on the job quickly.

With it, you can:

- Go from Free-Swing to No-Free Swing with a push of a button.
- Set up quickly with radio outrigger controls
- Operate comfortably and confidently in its tiltable cab
- A92.2 Dual Rating Option - Multi-use for lifting and aerial platform applications

Other features include:

- 50-ton capacity @ 6 ft. radius
- 4 & 5-section proportional boom
- Optional telescopic jib
- 204 ft. maximum tip height (with optional telescopic jib)
- Tiltable cab
- Out-and-down outriggers
- Remote outrigger controls

NEW COMBINED RADIO REMOTE NEW CAB

TELEMETRICS



RADIO CONTROLS

One control to operate the outriggers, winch controls and the boom.

RADIO OUTRIGGER CONTROLS

Operate the outriggers remotely, with a clear view of the machine, using radio outrigger controls we call ROC Solid.



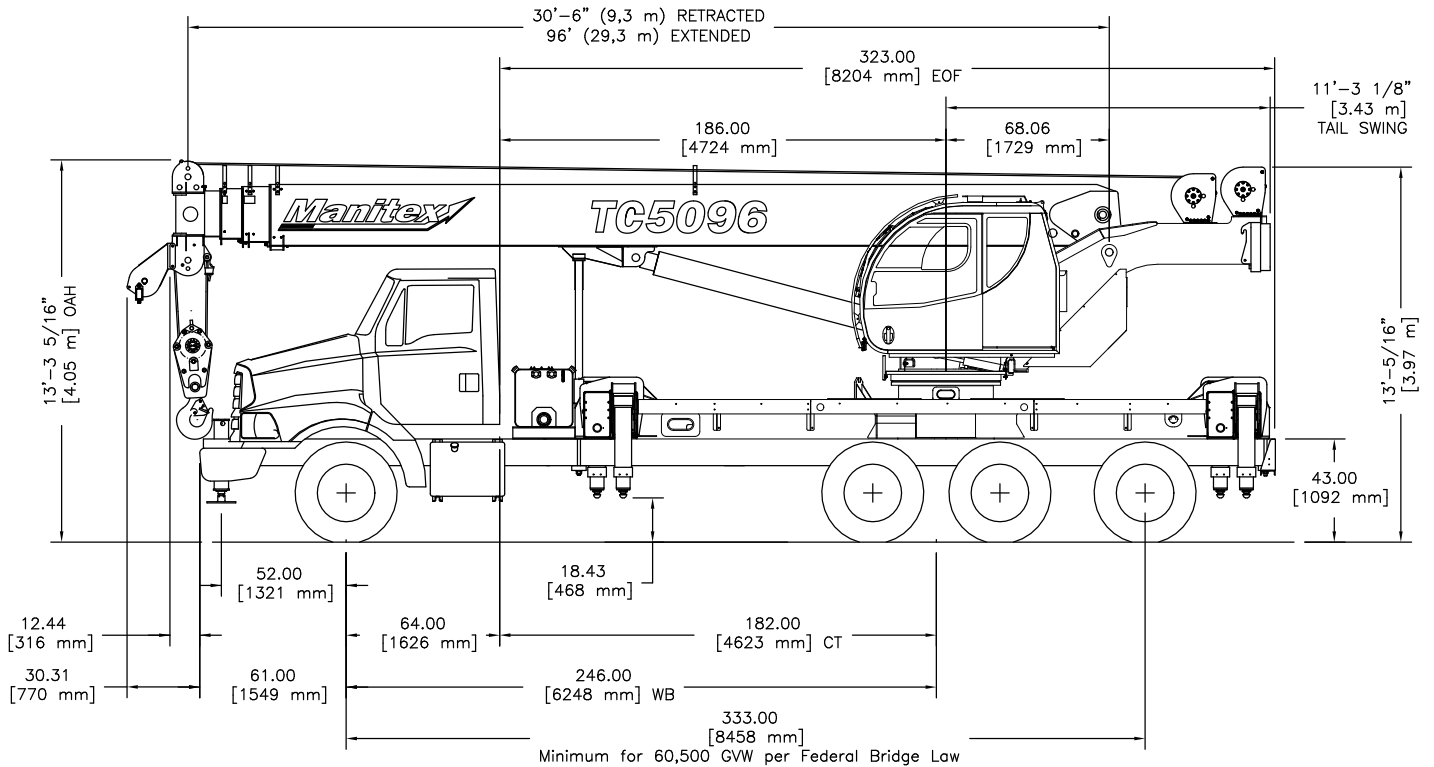
All cabs now come equipped with Heat and AC with 200% more air flow. Adjustable cab tilt speed and crane functions. USB ports for quick software updates or phone charging. More leg space and only one display unit needed for both crane and chassis operations.



A modem has been added to the crane PLC system to aid troubleshooting machines in the field. Crane software updates can now be uploaded to the machine without having to send a technician to the field! GPS ready for tracking through the Manitex web portal.

5096 CHASSIS DATA

Dimensions



CAB UPGRADES FOR EASIER OPERATOR CONTROL



Externally routed A2B cable. LMI with crane function cut-offs for overload protection. Color graphic display, event recorder, WADS-Work Definition System.

CHASSIS DATA

| Model | 5096 |
|--|--|
| Frame section modulus at 180/360° area of operation* | 27.0 in ³ 120,000 psi 827,371 kPa |

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

CRANE WEIGHT

| | 5096 |
|-------------------|-------------------------|
| Crane | 35,755 lbs. (16,218 kg) |
| Jib fixed | 1,510 lbs. (685 kg) |
| Jib telescopic | 1,870 lbs. (848 kg) |
| Aluminum Platform | 621 lbs. (282 kg) |

TRUCK AXLE WEIGHT

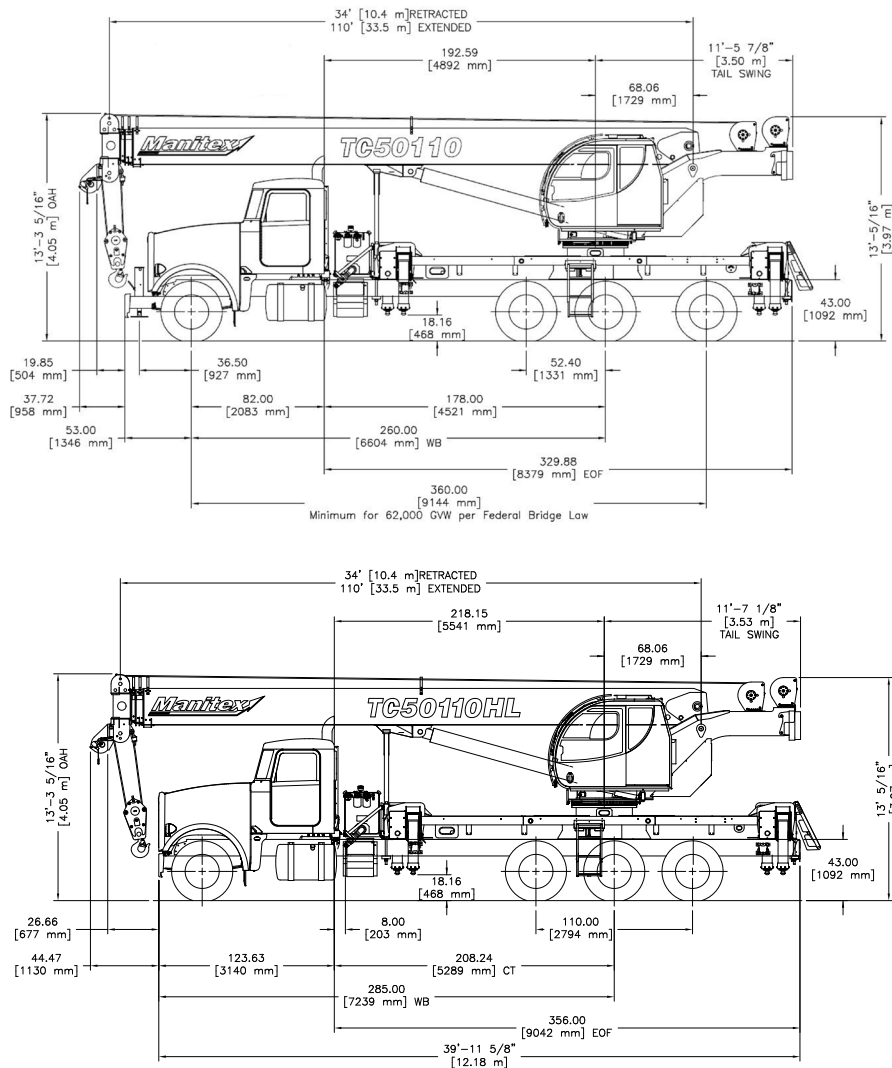
| | 5096 |
|-----------------------------|------------------------|
| Min. truck axle W - Front** | 9,100 lbs. (4,127 kg) |
| Min. truck axle W - Rear** | 11,150 lbs. (5,057 kg) |
| Nominal Frame W | 34 in. (864 mm) |

** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general - not for engineering. Some dimensions depend on truck selection.

Notes: Additional axles required for federal bridge legal configuration - consult Manitex. Manitex highly recommends the addition of a front stabilizer and it may be required on some installations - consult Manitex.

50110 & HL CHASSIS DATA

Dimensions



CHASSIS DATA

| Model | 50110 | 50110HL |
|--|--|--|
| Frame section modulus at 180/360° area of operation* | 27.0 in ³ 120,000 psi, 827,371 kPa | 27.0 in ³ 120,000 psi, 827,371 kPa |

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

TRUCK AXLE WEIGHT

| Model | 50110 | 50110HL |
|-----------------------------|------------------------|------------------------|
| Min. truck axle W - Front** | 9,000 lbs. (4,173 kg) | 10,700 lbs. (4,853 kg) |
| Min. truck axle W - Rear** | 10,600 lbs. (4,808 kg) | 15,200 lbs. (6,894 kg) |
| Nominal Frame W | 34 in. (864 mm) | 34 in. (864 mm) |

** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general - not for engineering. Some dimensions depend on truck selection.

CRANE WEIGHT

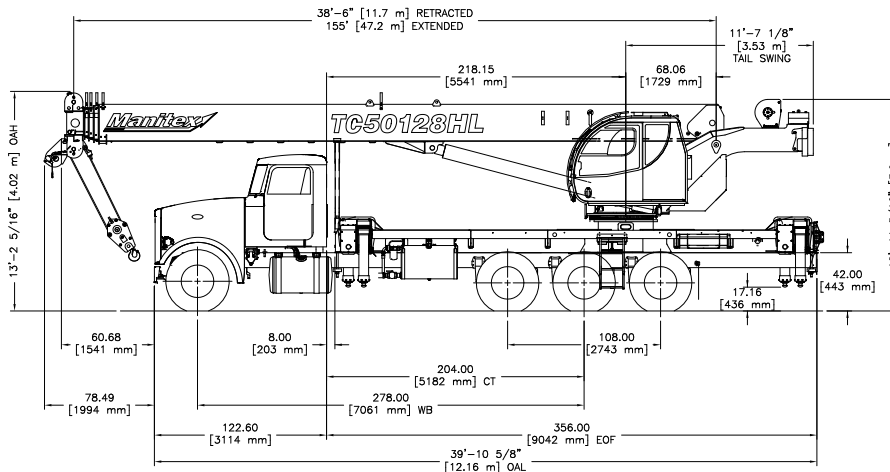
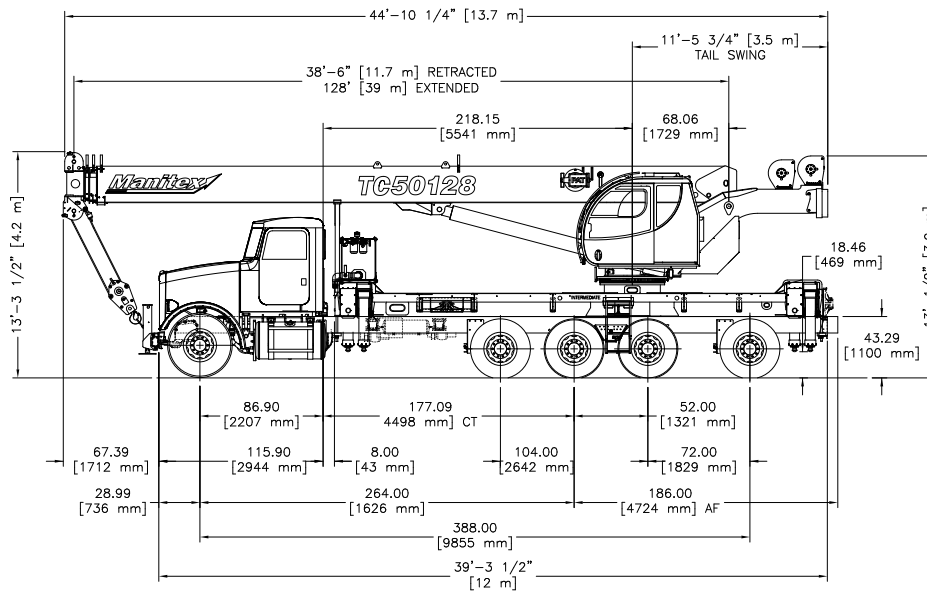
| Model | 50110 | 50110HL |
|--------------------|-------------------------|-------------------------|
| Crane | 37,422 lbs. (16,974 kg) | 43,846 lbs. (19,888 kg) |
| Jib fixed | 1,510 lbs. (685 kg) | 1,510 lbs. (685 kg) |
| Jib telescopic | 1,870 lbs. (848 kg) | 1,870 lbs. (848 kg) |
| Aluminum Platforms | 621 lbs. (282 kg) | 621 lbs. (282 kg) |

Notes: Additional axles required for federal bridge legal configuration - consult Manitex. Manitex highly recommends the addition of a front stabilizer and it may be required on some installations - consult Manitex.

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50128 & HL CHASSIS DATA

Dimensions



CHASSIS DATA

| Model | 50128 | 50128HL |
|--|--|--|
| Frame section modulus at 180/360° area of operation* | 27.0 in ³ 110,000 psi, 758,423 kPa | 27.0 in ³ 110,000 psi, 758,423 kPa |

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

TRUCK AXLE WEIGHT

| Model | 50128 | 50128HL |
|-----------------------------|------------------------|------------------------|
| Min. truck axle W - Front** | 9,100 lbs. (4,127 kg) | 11,100 lbs. (5,034 kg) |
| Min. truck axle W - Rear** | 13,985 lbs. (6,344 kg) | 12,500 lbs. (5,670 kg) |
| Nominal Frame W | 34 in. (864 mm) | 34 in. (864 mm) |

** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general - not for engineering. Some dimensions depend on truck selection.

CRANE WEIGHT

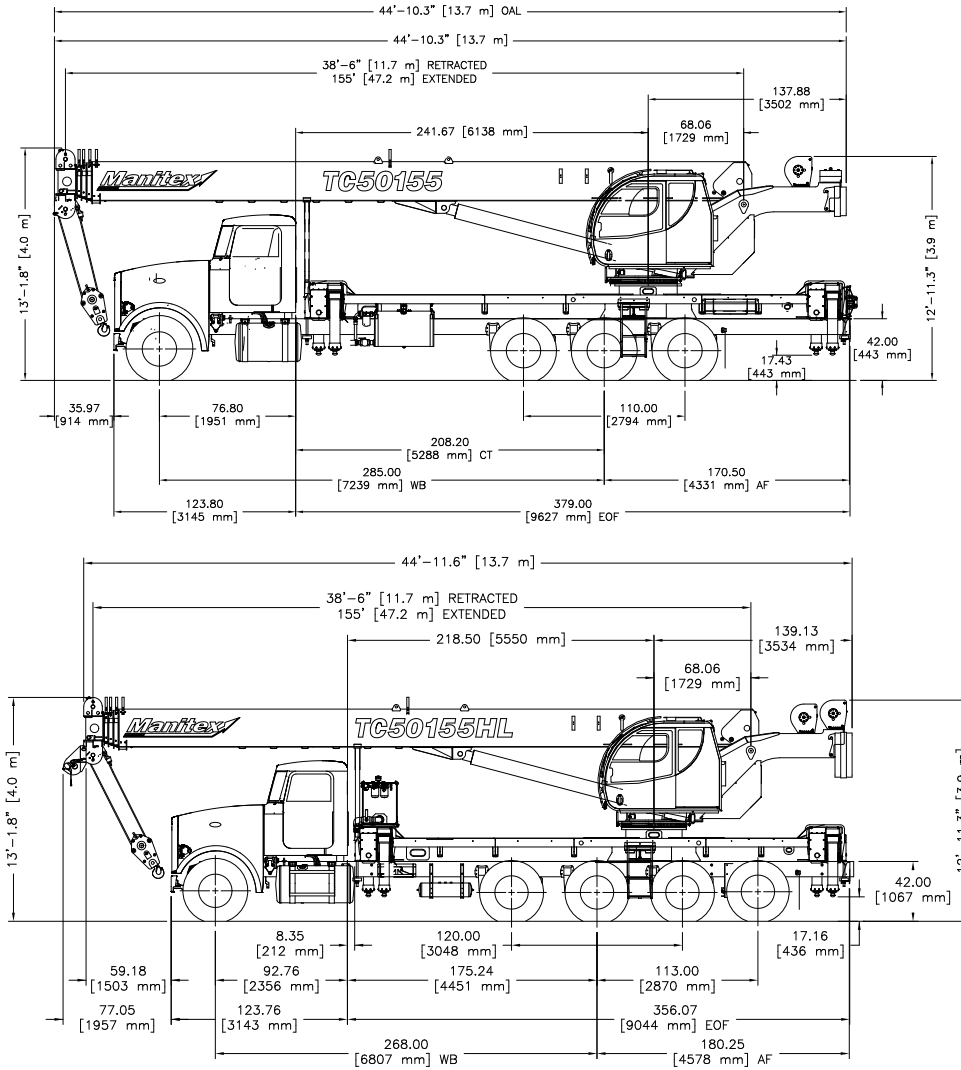
| Model | 50128 | 50128HL |
|--------------------|-------------------------|-------------------------|
| Crane | 38,955 lbs. (17,670 kg) | 45,379 lbs. (20,584 kg) |
| Jib fixed | 1,510 lbs. (685 kg) | 1,510 lbs. (685 kg) |
| Jib telescopic | 1,870 lbs. (848 kg) | 1,870 lbs. (848 kg) |
| Aluminum Platforms | 621 lbs. (282 kg) | 621 lbs. (282 kg) |

Notes: Additional axles required for federal bridge legal configuration - consult Manitex. Manitex highly recommends the addition of a front stabilizer and it may be required on some installations - consult Manitex.

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50155 & HL CHASSIS DATA

Dimensions



CHASSIS DATA

| Model | 50155 | 50155HL |
|--|--|--|
| Frame section modulus at 180/360° area of operation* | 27.0 in ³ 110,000 psi, 758,423 kPa | 27.0 in ³ 110,000 psi, 758,423 kPa |

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

TRUCK AXLE WEIGHT

| Model | 50155 | 50155HL |
|-----------------------------|------------------------|------------------------|
| Min. truck axle W - Front** | 10,750 lbs. (4,876 kg) | 9,500 lbs. (4,309 kg) |
| Min. truck axle W - Rear** | 12,300 lbs. (5,579 kg) | 13,400 lbs. (6,078 kg) |
| Nominal Frame W | 34 in. (864 mm) | 34 in. (864 mm) |

** Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general - not for engineering. Some dimensions depend on truck selection.

CRANE WEIGHT

| Model | 50155 | 50155HL |
|--------------------|-------------------------|-------------------------|
| Crane | 39,175 lbs. (17,796 kg) | 45,605 lbs. (20,686 kg) |
| Jib fixed | 1,510 lbs. (685 kg) | 1,510 lbs. (685 kg) |
| Jib telescopic | N/A | N/A |
| Aluminum Platforms | 621 lbs. (282 kg) | 621 lbs. (282 kg) |

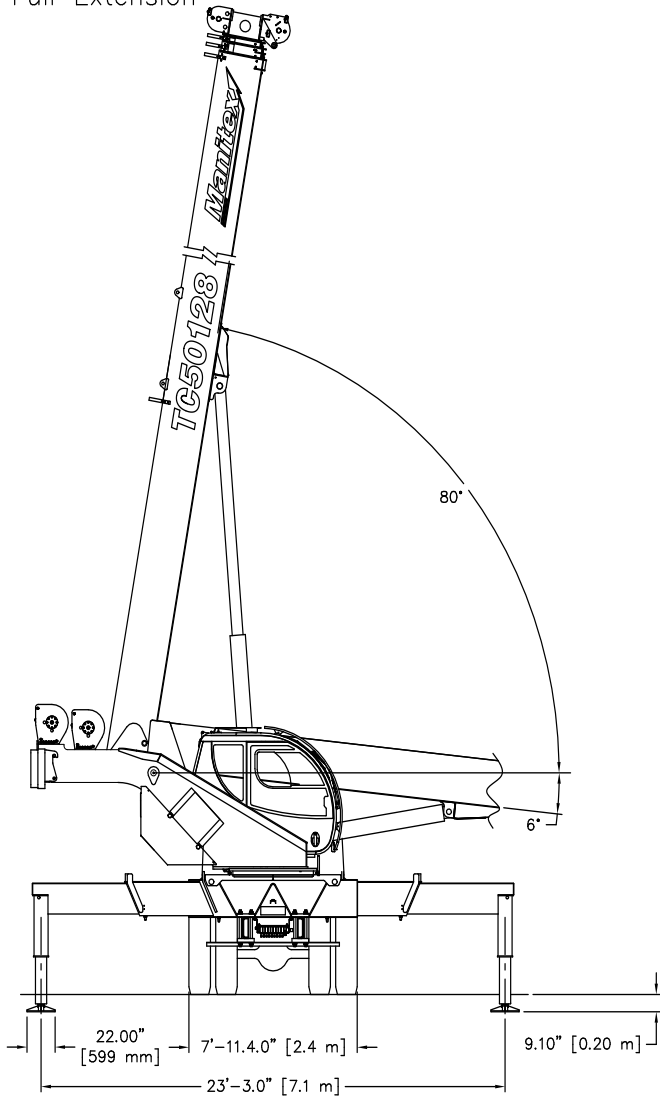
Notes: Additional axles required for federal bridge legal configuration - consult Manitex. Manitex highly recommends the addition of a front stabilizer and it may be required on some installations - consult Manitex.

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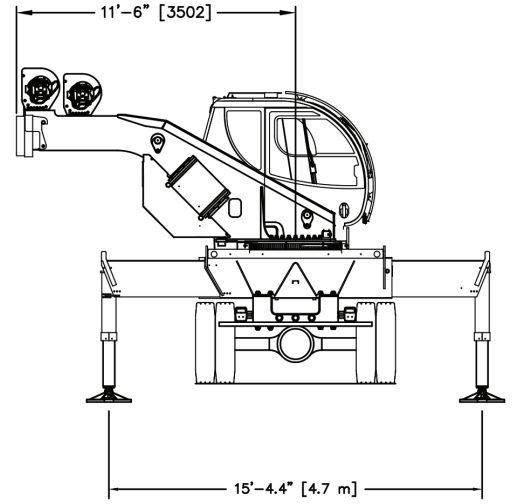
OUTRIGGER EXTENSION

Full Extension

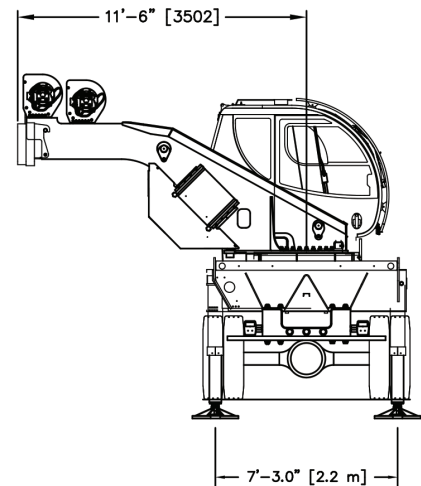
Full Extension



Mid Extension



Full Retraction



SUB FRAME

- Pedestal sub-frame and stabilizers are mounted to chassis by threaded rods and clamp plates
- Sub-frame: Torsion resistant, rigid 4-plate design mounted under crane full length of truck frame
- Rear under-ride protection: Standard on factory mounted cranes

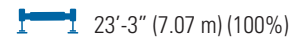
ELECTRICAL SYSTEM

- State-of-the-art, weather-resistant components throughout
- Hermetically sealed enclosure includes power in relays and circuit status LEDs
- 12-24 Volt capability

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

5096 LOAD CHART: Main Boom

Lifting Capacities 4-section Boom 30.5 ft. - 96 ft.
Outriggers Fully Extended



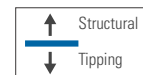
| Boom Length (ft.) | Boom Length 30.5 ft. | | | Boom Length 48 ft. (A) | | | Boom Length 64 ft. (B) | | | Boom Length 80 ft. (C) | | | Boom Length 96 ft. (D) | | |
|-------------------|-------------------------|-------------------------|---------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|
| | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | |
| 6 | 69 | 100,000 | 100,000 | | | | | | | | | | | | |
| 8 | 65 | 90,400 | 90,400 | | | | | | | | | | | | |
| 10 | 61 | 80,000 | 80,000 | 73 | 51,000 | 51,000 | | | | | | | | | |
| 12 | 56 | 71,800 | 71,800 | 70 | 51,000 | 51,000 | 76 | 40,000 | 40,000 | | | | | | |
| 15 | 49 | 61,700 | 61,700 | 66 | 51,000 | 51,000 | 73 | 40,000 | 40,000 | 77 | 27,500 | 27,500 | | | |
| 20 | 34 | 46,100 | 46,100 | 59 | 47,000 | 47,000 | 69 | 37,700 | 37,700 | 74 | 27,500 | 27,500 | 78 | 18,000 | 18,000 |
| 25 | | | | 52 | 36,800 | 36,800 | 64 | 30,400 | 30,400 | 70 | 24,300 | 24,300 | 75 | 18,000 | 18,000 |
| 30 | | | | 44 | 29,480 | 25,890 | 59 | 27,040 | 26,420 | 66 | 21,280 | 21,280 | 72 | 17,500 | 17,500 |
| 35 | | | | 34 | 22,630 | 19,320 | 53 | 23,100 | 19,830 | 62 | 19,050 | 19,050 | 69 | 16,240 | 16,240 |
| 40 | | | | 20 | 18,020 | 15,030 | 47 | 18,510 | 15,550 | 58 | 16,980 | 15,820 | 65 | 14,660 | 14,660 |
| 45 | | | | | | | 40 | 15,230 | 12,550 | 53 | 15,250 | 12,810 | 62 | 13,280 | 12,970 |
| 50 | | | | | | | 32 | 12,750 | 10,320 | 49 | 13,000 | 10,580 | 58 | 12,130 | 10,730 |
| 55 | | | | | | | 21 | 10,810 | 8,590 | 44 | 11,070 | 8,860 | 54 | 11,080 | 9,020 |
| 60 | | | | | | | | | | 38 | 9,530 | 7,500 | 50 | 9,680 | 7,650 |
| 65 | | | | | | | | | | 31 | 8,260 | 6,380 | 46 | 8,420 | 6,540 |
| 70 | | | | | | | | | | 22 | 7,200 | 5,450 | 41 | 7,360 | 5,620 |
| 75 | | | | | | | | | | | | | 36 | 6,470 | 4,840 |
| 80 | | | | | | | | | | | | | 30 | 5,700 | 4,170 |
| 85 | | | | | | | | | | | | | 23 | 5,020 | 3,580 |
| 90 | | | | | | | | | | | | | 8 | 4,410 | 3,050 |

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS - SJ = Stowed Jib, EJR = Erected Jib Retracted, EJE = Erected Jib Extended

| | SJ | EJR | EJE |
|------------|------------|------------|------------|
| 1,080 lbs. | 690 lbs. | 520 lbs. | 410 lbs. |
| 3,050 lbs. | 2,680 lbs. | 2,520 lbs. | 2,420 lbs. |
| 3,470 lbs. | 2,590 lbs. | 2,720 lbs. | 2,580 lbs. |

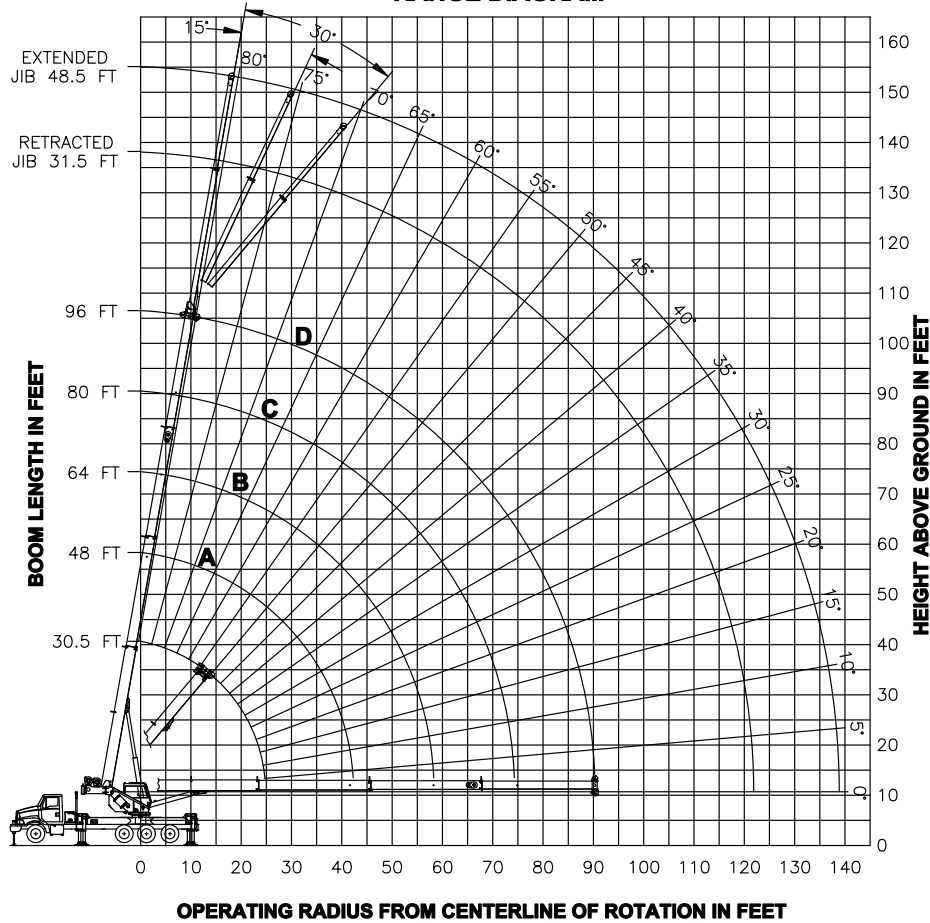
NOTES:

- All "on outriggers" loads are based on 85% tipping
- Loads based on crane on outriggers
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on tipping rating



5096S BOOM DIAGRAM & JIB LOAD CAPACITIES

- RANGE DIAGRAM -



23'-3" (7.07 m) (100%)

23'-3" (7.07 m) (100%)

| 32 FT. RETRACTED JIB LOAD CAPACITIES | | | | | | | | |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 35 | 75 | 8,500 | 8,500 | | | | | |
| 40 | 73 | 8,500 | 8,500 | 76 | 7,600 | 7,600 | | |
| 45 | 71 | 8,320 | 8,320 | 74 | 7,600 | 7,600 | 76 | 5,900 |
| 50 | 68 | 7,790 | 7,790 | 72 | 7,140 | 7,140 | 74 | 5,900 |
| 55 | 66 | 7,290 | 7,290 | 69 | 6,700 | 6,700 | 72 | 5,700 |
| 60 | 63 | 6,830 | 6,830 | 66 | 6,280 | 6,280 | 69 | 5,520 |
| 65 | 61 | 6,380 | 6,380 | 64 | 5,900 | 5,900 | 66 | 5,350 |
| 70 | 58 | 5,980 | 5,650 | 61 | 5,500 | 5,500 | 63 | 5,200 |
| 75 | 55 | 5,610 | 4,850 | 58 | 5,240 | 5,200 | 60 | 5,000 |
| 80 | 52 | 5,270 | 4,180 | 55 | 4,960 | 4,480 | 57 | 4,760 |
| 85 | 49 | 4,970 | 3,590 | 52 | 4,700 | 3,860 | 54 | 4,540 |
| 90 | 46 | 4,410 | 3,080 | 49 | 4,460 | 3,310 | 51 | 4,330 |
| 95 | 42 | 3,890 | 2,630 | 45 | 4,080 | 2,830 | 47 | 4,150 |
| 100 | 38 | 3,420 | 2,220 | 41 | 3,590 | 2,400 | 43 | 3,700 |
| 105 | 34 | 3,010 | 1,870 | 37 | 3,150 | 2,010 | 38 | 3,220 |
| 110 | 29 | 2,630 | 1,540 | 32 | 2,740 | 1,650 | 32 | 2,780 |
| 115 | 23 | 2,290 | 1,250 | 25 | 2,360 | 1,320 | 24 | 2,360 |
| 120 | 14 | 1,980 | 980 | 14 | 2,000 | 1,000 | | |

| 49 FT. EXTENDED JIB LOAD CAPACITIES | | | | | | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 40 | 75 | 5,600 | 5,600 | | | | | |
| 45 | 73 | 5,600 | 5,600 | 77 | 4,530 | 4,530 | | |
| 50 | 71 | 5,600 | 5,600 | 75 | 4,530 | 4,530 | | |
| 55 | 69 | 5,600 | 5,600 | 73 | 4,300 | 4,300 | 77 | 3,350 |
| 60 | 67 | 5,300 | 5,300 | 71 | 4,080 | 4,080 | 75 | 3,350 |
| 65 | 65 | 4,960 | 4,960 | 69 | 3,900 | 3,900 | 73 | 3,230 |
| 70 | 63 | 4,670 | 4,670 | 67 | 3,710 | 3,710 | 71 | 3,120 |
| 75 | 61 | 4,400 | 4,400 | 65 | 3,550 | 3,550 | 68 | 3,020 |
| 80 | 58 | 4,160 | 4,160 | 62 | 3,410 | 3,410 | 66 | 2,930 |
| 85 | 55 | 3,940 | 3,940 | 60 | 3,270 | 3,270 | 63 | 2,850 |
| 90 | 53 | 3,730 | 3,670 | 57 | 3,150 | 3,150 | 60 | 2,770 |
| 95 | 50 | 3,550 | 3,210 | 54 | 3,030 | 3,030 | 57 | 2,710 |
| 100 | 47 | 3,380 | 2,800 | 51 | 2,930 | 2,930 | 54 | 2,650 |
| 105 | 44 | 3,230 | 2,440 | 48 | 2,830 | 2,710 | 51 | 2,600 |
| 110 | 41 | 3,090 | 2,110 | 45 | 2,750 | 2,350 | 48 | 2,550 |
| 115 | 38 | 2,850 | 1,820 | 42 | 2,670 | 2,030 | 44 | 2,520 |
| 120 | 34 | 2,540 | 1,550 | 38 | 2,600 | 1,730 | 40 | 2,510 |
| 125 | 30 | 2,260 | 1,310 | 33 | 2,400 | 1,450 | 34 | 2,460 |
| 130 | 25 | 1,990 | 1,080 | 28 | 2,100 | 1,180 | 27 | 2,110 |
| 135 | 18 | 1,750 | 870 | 20 | 1,800 | 930 | | |

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50110 LOAD CHART: Main Boom



Lifting Capacities 4-section Boom 34 ft. - 110 ft. Outriggers Fully Extended

23'-3" (7.07 m) (100%)

| Boom Length (ft.) | Boom Length 34 ft. | | | Boom Length 42 ft. (A) | | | Boom Length 51 ft. (B) | | | Boom Length 59 ft. (C) | | | Boom Length 68 ft. (D) | | |
|-------------------|-------------------------|-------------------------|---------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|
| | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | |
| 6 | 71 | 100,000 | 100,000 | | | | | | | | | | | | |
| 8 | 67.5 | 88,500 | 88,500 | 72 | 51,000 | 51,000 | 75.5 | 51,000 | 51,000 | 78 | 51,000 | 51,000 | | | |
| 10 | 63.5 | 78,200 | 78,200 | 69 | 51,000 | 51,000 | 73.5 | 51,000 | 51,000 | 76 | 51,000 | 51,000 | 78 | 47,380 | 47,380 |
| 12 | 60 | 70,200 | 70,200 | 66 | 51,000 | 51,000 | 71 | 51,000 | 51,000 | 74 | 51,000 | 51,000 | 76.5 | 45,140 | 45,140 |
| 15 | 53.5 | 60,600 | 60,600 | 61.5 | 51,000 | 51,000 | 67.5 | 51,000 | 51,000 | 71 | 49,770 | 49,770 | 74 | 42,140 | 42,140 |
| 20 | 42 | 46,200 | 46,200 | 53.5 | 46,700 | 46,700 | 61 | 46,400 | 46,400 | 65.5 | 44,310 | 44,310 | 69.5 | 37,820 | 37,820 |
| 25 | 26.5 | 35,800 | 35,800 | 44 | 36,300 | 36,300 | 54.5 | 36,700 | 36,700 | 60 | 36,900 | 36,900 | 65 | 32,530 | 32,530 |
| 30 | | | | 33 | 29,340 | 25,770 | 47 | 29,720 | 26,320 | 54.5 | 29,930 | 26,640 | 60 | 28,560 | 26,900 |
| 35 | | | | 15.5 | 22,960 | 18,990 | 38.5 | 23,490 | 19,560 | 48 | 23,770 | 19,860 | 55 | 23,990 | 20,100 |
| 40 | | | | | | | 27.5 | 18,680 | 15,160 | 40.5 | 18,960 | 15,460 | 49.5 | 19,180 | 15,690 |
| 45 | | | | | | | 7 | 15,170 | 12,010 | 32 | 15,510 | 12,370 | 43.5 | 15,730 | 12,600 |
| 50 | | | | | | | | | | 20.5 | 12,910 | 10,060 | 37 | 13,140 | 10,310 |
| 55 | | | | | | | | | | | | | 28.5 | 11,110 | 8,530 |
| 60 | | | | | | | | | | | | | 16.5 | 9,470 | 7,100 |

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS - SJ = Stowed Jib, EJR = Erected Jib Retracted, EJE = Erected Jib Extended

| | | | | | |
|------------|------------|------------|------------|------------|------------|
| SJ | 1,150 lbs. | 930 lbs. | 770 lbs. | 670 lbs. | 580 lbs. |
| EJR | 2,940 lbs. | 2,770 lbs. | 2,640 lbs. | 2,560 lbs. | 2,490 lbs. |
| EJE | 3,320 lbs. | 3,080 lbs. | 2,890 lbs. | 2,780 lbs. | 2,680 lbs. |

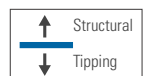
| Boom Length (ft.) | Boom Length 76 ft. (E) | | | Boom Length 85 ft. (F) | | | Boom Length 93 ft. (G) | | | Boom Length 102 ft. (H) | | | Boom Length 110 ft. (I) | | |
|-------------------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|
| | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | |
| 12 | 78.5 | 39,530 | 39,530 | | | | | | | | | | | | |
| 15 | 76 | 37,080 | 37,080 | 78 | 30,830 | 30,830 | | | | | | | | | |
| 20 | 72 | 31,860 | 31,860 | 74.5 | 26,790 | 26,790 | 76.5 | 24,480 | 24,480 | 78 | 21,860 | 21,860 | | | |
| 25 | 68 | 27,740 | 27,740 | 71 | 23,230 | 23,230 | 73 | 21,500 | 21,500 | 75 | 19,820 | 19,820 | 76.5 | 15,500 | 15,500 |
| 30 | 64 | 24,220 | 24,220 | 67.5 | 20,390 | 20,390 | 70 | 19,210 | 19,210 | 72.5 | 17,730 | 17,730 | 74 | 15,500 | 15,500 |
| 35 | 59.5 | 21,390 | 20,260 | 63.5 | 18,270 | 18,270 | 66.5 | 17,050 | 17,050 | 69.5 | 15,830 | 15,830 | 71.5 | 14,660 | 14,660 |
| 40 | 55 | 19,300 | 15,840 | 60 | 16,260 | 15,980 | 63 | 15,260 | 15,260 | 66.5 | 14,210 | 14,210 | 68.5 | 13,320 | 13,320 |
| 45 | 50 | 15,870 | 12,750 | 55.5 | 14,570 | 12,870 | 59.5 | 13,700 | 12,960 | 63 | 12,810 | 12,810 | 66 | 12,080 | 12,080 |
| 50 | 45 | 13,280 | 10,450 | 51.5 | 13,130 | 10,580 | 56 | 12,370 | 10,660 | 60 | 11,600 | 10,740 | 63 | 10,970 | 10,800 |
| 55 | 39 | 11,260 | 8,680 | 47 | 11,380 | 8,810 | 52 | 11,220 | 8,890 | 56.5 | 10,530 | 8,970 | 59.5 | 10,000 | 9,020 |
| 60 | 32 | 9,640 | 7,270 | 41.5 | 9,760 | 7,400 | 47.5 | 9,840 | 7,490 | 53 | 9,840 | 7,560 | 56.5 | 9,330 | 7,610 |
| 65 | 23.5 | 8,300 | 6,120 | 36 | 8,430 | 6,250 | 43 | 8,510 | 6,340 | 49 | 8,590 | 6,410 | 53.5 | 8,530 | 6,470 |
| 70 | 7 | 7,150 | 5,130 | 29.5 | 7,320 | 5,300 | 38 | 7,410 | 5,390 | 45 | 7,480 | 5,460 | 50 | 7,530 | 5,520 |
| 75 | | | | 20.5 | 6,370 | 4,480 | 32.5 | 6,470 | 4,580 | 40.5 | 6,540 | 4,660 | 46 | 6,590 | 4,710 |
| 80 | | | | | | | 25.5 | 5,650 | 3,890 | 36 | 5,740 | 3,970 | 42 | 5,790 | 4,030 |
| 85 | | | | | | | 15 | 4,940 | 3,280 | 30 | 5,030 | 3,380 | 37.5 | 5,090 | 3,430 |
| 90 | | | | | | | | | | 23 | 4,420 | 2,850 | 33 | 4,480 | 2,910 |
| 95 | | | | | | | | | | 12 | 3,860 | 2,370 | 27 | 3,330 | 2,450 |
| 100 | | | | | | | | | | | | | 19 | 3,440 | 2,040 |

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS - SJ = Stowed Jib, EJR = Erected Jib Retracted, EJE = Erected Jib Extended

| | | | | | |
|------------|------------|------------|------------|------------|------------|
| SJ | 520 lbs. | 460 lbs. | 420 lbs. | 390 lbs. | 360 lbs. |
| EJR | 2,440 lbs. | 2,400 lbs. | 2,370 lbs. | 2,340 lbs. | 2,320 lbs. |
| EJE | 2,610 lbs. | 2,550 lbs. | 2,510 lbs. | 2,460 lbs. | 2,430 lbs. |

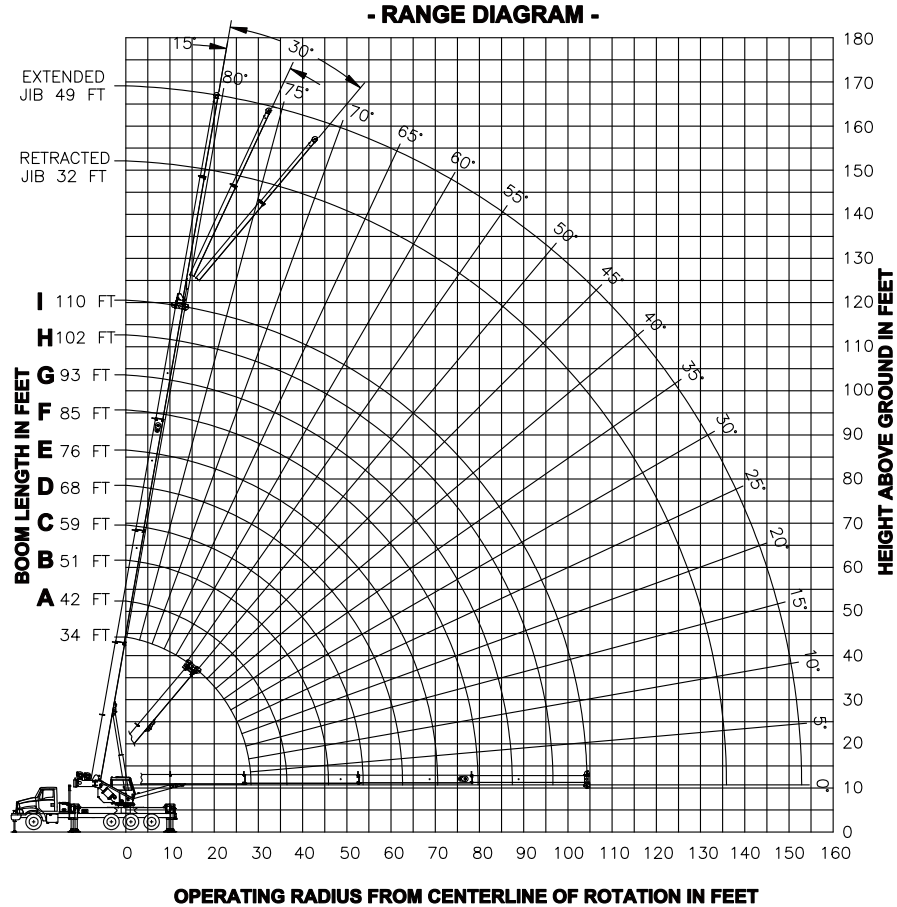
NOTES:

- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads based on crane on outriggers
- Loads below heavy line are based on tipping rating



Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50110 BOOM DIAGRAM & JIB LOAD CAPACITIES



23'-3" (7.07 m) (100%)

23'-3" (7.07 m) (100%)


| 32 FT. RETRACTED JIB LOAD CAPACITIES | | | | | | | | |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 35 | 76.5 | 7,300 | 7,300 | | | | | |
| 40 | 74.5 | 7,300 | 7,300 | | | | | |
| 45 | 72.5 | 7,300 | 7,300 | 76 | 6,500 | 6,500 | | |
| 50 | 70.5 | 7,300 | 7,300 | 73.5 | 6,500 | 6,500 | 76 | 5,800 5,800 |
| 55 | 68.5 | 6,980 | 6,980 | 71.5 | 6,500 | 6,500 | 74 | 5,800 5,800 |
| 60 | 66.5 | 6,600 | 6,600 | 69.5 | 6,120 | 6,120 | 72 | 5,750 5,750 |
| 65 | 64 | 6,230 | 6,230 | 67 | 5,780 | 5,780 | 69.5 | 5,450 5,450 |
| 70 | 62 | 5,870 | 5,330 | 65 | 5,450 | 5,450 | 67 | 5,160 5,160 |
| 75 | 59.5 | 5,530 | 4,520 | 62.5 | 5,160 | 4,930 | 64.5 | 4,900 4,900 |
| 80 | 57 | 5,110 | 3,830 | 60 | 4,880 | 4,200 | 62 | 4,670 4,500 |
| 85 | 54.5 | 4,690 | 3,240 | 57.5 | 4,630 | 3,570 | 59.5 | 4,450 3,830 |
| 90 | 52 | 4,270 | 2,720 | 54.5 | 4,400 | 3,010 | 56.5 | 4,250 3,250 |
| 95 | 49 | 3,730 | 2,260 | 51.5 | 3,990 | 2,530 | 53.5 | 4,070 2,730 |
| 100 | 46 | 3,250 | 1,860 | 48.5 | 3,480 | 2,090 | 50.5 | 3,650 2,260 |
| 105 | 43 | 2,820 | 1,490 | 45.5 | 3,020 | 1,700 | 47 | 3,160 1,840 |
| 110 | 39.5 | 2,440 | 1,170 | 42 | 2,610 | 1,350 | 43.5 | 2,720 1,460 |
| 115 | 35.5 | 2,080 | 870 | 38 | 2,230 | 1,020 | 39 | 2,320 1,110 |
| 120 | 31.5 | 1,770 | | 34 | 1,890 | | 34.5 | 1,940 790 |
| 125 | 26.5 | 1,470 | | 29 | 1,570 | | 29 | 1,590 |
| 130 | 20.5 | 1,200 | | 22 | 1,260 | | 20 | 1,240 |
| 135 | 10 | 950 | | | | | | |






| 49 FT. EXTENDED JIB LOAD CAPACITIES | | | | | | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 40 | 77 | 5,400 | 5,400 | | | | | |
| 45 | 75 | 5,400 | 5,400 | | | | | |
| 50 | 73.5 | 5,400 | 5,400 | 77 | 4,700 | 4,700 | | |
| 55 | 71.5 | 5,400 | 5,400 | 75 | 4,700 | 4,700 | | |
| 60 | 69.5 | 5,400 | 5,400 | 73.5 | 4,480 | 4,480 | 77 | 3,520 3,520 |
| 65 | 68 | 5,230 | 5,230 | 71.5 | 4,280 | 4,280 | 75 | 3,520 3,520 |
| 70 | 66 | 4,930 | 4,930 | 69.5 | 4,100 | 4,100 | 73.5 | 3,410 3,410 |
| 75 | 64 | 4,660 | 4,660 | 67.5 | 3,940 | 3,940 | 71 | 3,310 3,310 |
| 80 | 62 | 4,410 | 4,410 | 65.5 | 3,790 | 3,790 | 69 | 3,210 3,210 |
| 85 | 60 | 4,170 | 3,840 | 63.5 | 3,650 | 3,650 | 67 | 3,130 3,130 |
| 90 | 57.5 | 3,950 | 3,320 | 61.5 | 3,520 | 3,520 | 64.5 | 3,050 3,050 |
| 95 | 55.5 | 3,750 | 2,850 | 59 | 3,400 | 3,280 | 62 | 2,980 2,980 |
| 100 | 53 | 3,560 | 2,440 | 57 | 3,290 | 2,830 | 59.5 | 2,910 2,910 |
| 105 | 50.5 | 3,380 | 2,080 | 54.5 | 3,190 | 2,420 | 57 | 2,860 2,700 |
| 110 | 48 | 3,000 | 1,750 | 52 | 3,050 | 2,060 | 54.5 | 2,810 2,300 |
| 115 | 45.5 | 2,650 | 1,450 | 49 | 2,920 | 1,730 | 51.5 | 2,760 1,940 |
| 120 | 42.5 | 2,330 | 1,180 | 46 | 2,570 | 1,430 | 48.5 | 2,730 1,610 |
| 125 | 39.5 | 2,030 | 930 | 43 | 2,250 | 1,150 | 45 | 2,400 1,300 |
| 130 | 36 | 1,760 | | 39.5 | 1,950 | 890 | 41 | 2,070 1,010 |
| 135 | 32 | 1,510 | | 35.5 | 1,670 | | 36.5 | 1,750 |
| 140 | 28 | 1,280 | | 31 | 1,410 | | 31 | 1,450 |
| 145 | 22.5 | 1,070 | | 25 | 1,160 | | | |
| 150 | 15 | 870 | | 15.5 | 900 | | | |

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50110HL LOAD CHART: Main Boom






Lifting Capacities 4-section Boom 34 ft. - 110 ft. - Full Outrigger Extension

 23'-3" (7.07 m) (100%)

| Boom Length (ft.) | Boom Length 34 ft. | | | Boom Length 42 ft. (A) | | | Boom Length 51 ft. (B) | | | Boom Length 59 ft. (C) | | | Boom Length 68 ft. (D) | | |
|-------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|--|-------------------------|-------------------------|---|-------------------------|-------------------------|
| |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |
| 6 | 71 | 100,000 | 100,000 | | | | | | | | | | | | |
| 8 | 67.5 | 88,500 | 88,500 | 72 | 51,000 | 51,000 | 75.5 | 51,000 | 51,000 | 78 | 51,000 | 51,000 | | | |
| 10 | 63.5 | 78,200 | 78,200 | 69 | 51,000 | 51,000 | 73.5 | 51,000 | 51,000 | 76 | 51,000 | 51,000 | 78 | 47,380 | 47,380 |
| 12 | 60 | 70,200 | 70,200 | 66 | 51,000 | 51,000 | 71 | 51,000 | 51,000 | 74 | 51,000 | 51,000 | 76.5 | 45,140 | 45,140 |
| 15 | 53.5 | 60,600 | 60,600 | 61.5 | 51,000 | 51,000 | 67.5 | 51,000 | 51,000 | 71 | 49,770 | 49,770 | 74 | 42,140 | 42,140 |
| 20 | 42 | 48,500 | 48,500 | 53.5 | 47,800 | 47,800 | 61 | 46,400 | 46,400 | 65.5 | 44,310 | 44,310 | 69.5 | 37,820 | 37,820 |
| 25 | 26.5 | 37,600 | 37,600 | 44 | 38,100 | 38,100 | 54.5 | 38,500 | 38,500 | 60 | 38,000 | 38,000 | 65 | 32,530 | 32,530 |
| 30 | | | | 33 | 30,500 | 30,500 | 47 | 30,900 | 30,900 | 54.5 | 31,100 | 31,100 | 60 | 28,560 | 28,560 |
| 35 | | | | 15.5 | 23,990 | 23,990 | 38.5 | 25,480 | 24,980 | 48 | 25,710 | 25,280 | 55 | 25,150 | 25,150 |
| 40 | | | | | | | 27.5 | 21,420 | 19,630 | 40.5 | 21,670 | 19,930 | 49.5 | 21,860 | 20,160 |
| 45 | | | | | | | 7 | 15,390 | 15,390 | 32 | 18,530 | 16,170 | 43.5 | 18,730 | 16,400 |
| 50 | | | | | | | | | | 20.5 | 16,010 | 13,360 | 37 | 16,230 | 13,610 |
| 55 | | | | | | | | | | | | | 28.5 | 14,180 | 11,450 |
| 60 | | | | | | | | | | | | | 16.5 | 12,450 | 9,720 |

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS - SJ = Stowed Jib, EJ R = Erected Jib Retracted, EJE = Erected Jib Extended

| | | | | | |
|------------|------------|------------|------------|------------|------------|
| SJ | 1,150 lbs. | 930 lbs. | 770 lbs. | 670 lbs. | 580 lbs. |
| EJR | 2,940 lbs. | 2,770 lbs. | 2,640 lbs. | 2,560 lbs. | 2,490 lbs. |
| EJE | 3,320 lbs. | 3,080 lbs. | 2,890 lbs. | 2,780 lbs. | 2,680 lbs. |

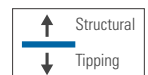
| Boom Length (ft.) | Boom Length 76 ft. (E) | | | Boom Length 85 ft. (F) | | | Boom Length 93 ft. (G) | | | Boom Length 102 ft. (H) | | | Boom Length 110 ft. (I) | | |
|-------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|--|-------------------------|-------------------------|---|-------------------------|-------------------------|
| |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |
| 12 | 78.5 | 39,530 | 39,530 | | | | | | | | | | | | |
| 15 | 76 | 37,080 | 37,080 | 78 | 30,830 | 30,830 | | | | | | | | | |
| 20 | 72 | 31,860 | 31,860 | 74.5 | 26,790 | 26,790 | 76.5 | 24,480 | 24,480 | 78 | 21,860 | 21,860 | | | |
| 25 | 68 | 27,740 | 27,740 | 71 | 23,230 | 23,230 | 73 | 21,500 | 21,500 | 75 | 19,820 | 19,820 | 76.5 | 15,500 | 15,500 |
| 30 | 64 | 24,220 | 24,220 | 67.5 | 20,390 | 20,390 | 70 | 19,210 | 19,210 | 72.5 | 17,730 | 17,730 | 74 | 15,500 | 15,500 |
| 35 | 59.5 | 21,390 | 21,390 | 63.5 | 18,270 | 18,270 | 66.5 | 17,050 | 17,050 | 69.5 | 15,830 | 15,830 | 71.5 | 14,660 | 14,660 |
| 40 | 55 | 19,300 | 19,300 | 60 | 16,260 | 16,260 | 63 | 15,260 | 15,260 | 66.5 | 14,210 | 14,210 | 68.5 | 13,320 | 13,320 |
| 45 | 50 | 17,310 | 16,540 | 55.5 | 14,570 | 14,570 | 59.5 | 13,700 | 13,700 | 63 | 12,810 | 12,810 | 66 | 12,080 | 12,080 |
| 50 | 45 | 15,610 | 13,760 | 51.5 | 13,130 | 13,130 | 56 | 12,370 | 12,370 | 60 | 11,600 | 11,600 | 63 | 10,970 | 10,970 |
| 55 | 39 | 14,160 | 11,600 | 47 | 11,920 | 11,730 | 52 | 11,220 | 11,220 | 56.5 | 10,530 | 10,530 | 59.5 | 10,000 | 10,000 |
| 60 | 32 | 12,610 | 9,890 | 41.5 | 10,840 | 10,020 | 47.5 | 10,210 | 10,100 | 53 | 9,840 | 9,840 | 56.5 | 9,330 | 9,330 |
| 65 | 23.5 | 11,160 | 8,490 | 36 | 10,010 | 8,630 | 43 | 9,590 | 8,710 | 49 | 9,000 | 8,790 | 53.5 | 8,530 | 8,530 |
| 70 | 7 | 8,290 | 7,300 | 29.5 | 9,320 | 7,470 | 38 | 8,780 | 7,560 | 45 | 8,240 | 7,630 | 50 | 7,810 | 7,690 |
| 75 | | | | 20.5 | 8,580 | 6,480 | 32.5 | 8,060 | 6,580 | 40.5 | 7,560 | 6,660 | 46 | 7,160 | 6,710 |
| 80 | | | | | | | 25.5 | 7,420 | 5,740 | 36 | 6,960 | 5,830 | 42 | 6,590 | 5,880 |
| 85 | | | | | | | 15 | 6,860 | 5,010 | 30 | 6,410 | 5,100 | 37.5 | 6,070 | 5,160 |
| 90 | | | | | | | | | | 23 | 5,920 | 4,470 | 33 | 5,600 | 4,530 |
| 95 | | | | | | | | | | 12 | 5,490 | 3,890 | 27 | 5,170 | 3,970 |
| 100 | | | | | | | | | | | | | 19 | 4,780 | 3,470 |

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS - SJ = Stowed Jib, EJ R = Erected Jib Retracted, EJE = Erected Jib Extended

| | | | | | |
|------------|------------|------------|------------|------------|------------|
| SJ | 520 lbs. | 460 lbs. | 420 lbs. | 390 lbs. | 360 lbs. |
| EJR | 2,440 lbs. | 2,400 lbs. | 2,370 lbs. | 2,340 lbs. | 2,320 lbs. |
| EJE | 2,610 lbs. | 2,550 lbs. | 2,510 lbs. | 2,460 lbs. | 2,430 lbs. |

NOTES:

- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads based on crane on outriggers
- Loads below heavy line are based on tipping rating

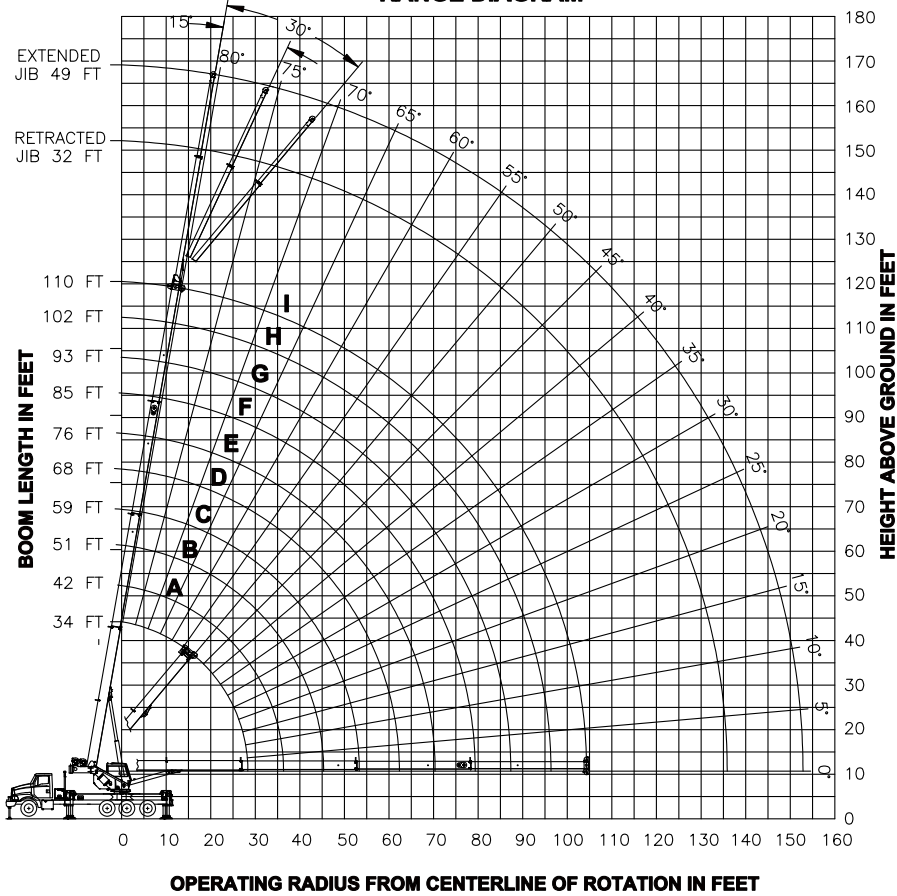


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50110HL BOOM DIAGRAM & JIB LOAD CAPACITIES



- RANGE DIAGRAM -



23'-3" (7.07 m) (100%)

23'-3" (7.07 m) (100%)


| 32 FT. RETRACTED JIB LOAD CAPACITIES | | | | | | | | |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 40 | 76.5 | 7,300 | | | | | | |
| 40 | 74.5 | 7,300 | | | | | | |
| 45 | 72.5 | 7,300 | 76 | 6,500 | 6,500 | | | |
| 50 | 70.5 | 7,300 | 73.5 | 6,500 | 6,500 | 76 | 5,800 | 5,800 |
| 55 | 68.5 | 6,980 | 71.5 | 6,500 | 6,500 | 74 | 5,800 | 5,800 |
| 60 | 66.5 | 6,600 | 69.5 | 6,120 | 6,120 | 72 | 5,750 | 5,750 |
| 65 | 64 | 6,230 | 67 | 5,780 | 5,780 | 69.5 | 5,450 | 5,450 |
| 70 | 62 | 5,870 | 65 | 5,450 | 5,450 | 67 | 5,160 | 5,160 |
| 75 | 59.5 | 5,530 | 62.5 | 5,160 | 5,160 | 64.5 | 4,900 | 4,900 |
| 80 | 57 | 5,110 | 60 | 4,880 | 4,880 | 62 | 4,670 | 4,670 |
| 85 | 54.5 | 4,690 | 57.5 | 4,630 | 4,630 | 59.5 | 4,450 | 4,450 |
| 90 | 52 | 4,280 | 54.5 | 4,400 | 4,400 | 56.5 | 4,250 | 4,250 |
| 95 | 49 | 3,920 | 51.5 | 4,070 | 4,030 | 53.5 | 4,070 | 4,070 |
| 100 | 46 | 3,570 | 48.5 | 3,700 | 3,510 | 50.5 | 3,820 | 3,680 |
| 105 | 43 | 3,250 | 45.5 | 3,370 | 3,040 | 47 | 3,480 | 3,180 |
| 110 | 39.5 | 2,950 | 42 | 3,050 | 2,620 | 43.5 | 3,140 | 2,730 |
| 115 | 35.5 | 2,670 | 38 | 2,770 | 2,230 | 39 | 2,830 | 2,320 |
| 120 | 31.5 | 2,420 | 34 | 2,500 | 1,880 | 34.5 | 2,540 | 1,940 |
| 125 | 26.5 | 2,180 | 29 | 2,240 | 1,560 | 29 | 2,260 | 1,580 |
| 130 | 20.5 | 1,960 | 22 | 2,000 | 1,250 | 20 | 1,970 | 1,230 |
| 135 | 10 | 1,760 | | | | | | |

| 49 FT. EXTENDED JIB LOAD CAPACITIES | | | | | | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 40 | 77 | 5,400 | | | | | | |
| 45 | 75 | 5,400 | | | | | | |
| 50 | 73.5 | 5,400 | 77 | 4,700 | 4,700 | | | |
| 55 | 71.5 | 5,400 | 75 | 4,700 | 4,700 | | | |
| 60 | 69.5 | 5,400 | 73.5 | 4,480 | 4,480 | 77 | 3,520 | 3,520 |
| 65 | 68 | 5,230 | 71.5 | 4,280 | 4,280 | 75 | 3,520 | 3,520 |
| 70 | 66 | 4,930 | 69.5 | 4,100 | 4,100 | 73.5 | 3,410 | 3,410 |
| 75 | 64 | 4,660 | 67.5 | 3,940 | 3,940 | 71 | 3,310 | 3,310 |
| 80 | 62 | 4,410 | 65.5 | 3,790 | 3,790 | 69 | 3,210 | 3,210 |
| 85 | 60 | 4,170 | 63.5 | 3,650 | 3,650 | 67 | 3,130 | 3,130 |
| 90 | 57.5 | 3,950 | 61.5 | 3,520 | 3,520 | 64.5 | 3,050 | 3,050 |
| 95 | 55.5 | 3,750 | 59 | 3,400 | 3,400 | 62 | 2,980 | 2,980 |
| 100 | 53 | 3,560 | 57 | 3,290 | 3,290 | 59.5 | 2,910 | 2,910 |
| 105 | 50.5 | 3,380 | 54.5 | 3,190 | 3,190 | 57 | 2,860 | 2,860 |
| 110 | 48 | 3,220 | 52 | 3,050 | 3,050 | 54.5 | 2,810 | 2,810 |
| 115 | 45.5 | 2,980 | 49 | 2,920 | 2,920 | 51.5 | 2,760 | 2,760 |
| 120 | 42.5 | 2,730 | 46 | 2,800 | 2,580 | 48.5 | 2,730 | 2,730 |
| 125 | 39.5 | 2,500 | 43 | 2,640 | 2,250 | 45 | 2,650 | 2,400 |
| 130 | 36 | 2,290 | 39.5 | 2,410 | 1,950 | 41 | 2,480 | 2,070 |
| 135 | 32 | 2,090 | 35.5 | 2,190 | 1,660 | 36.5 | 2,240 | 1,750 |
| 140 | 28 | 1,890 | 31 | 1,970 | 1,440 | 31 | 2,000 | 1,440 |
| 145 | 22.5 | 1,720 | 25 | 1,770 | 1,150 | | | |
| 150 | 15 | 1,550 | 15.5 | 1,570 | 890 | | | |

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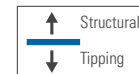
50128 LOAD CHART: Main Boom

Lifting Capacities 4-section Boom 38.5 ft. - 128 ft. - Full Outrigger Extension

 23'-3" (7.07 m) (100%)

| Boom Length (ft.) | Boom Length 38.5 ft. | | | Boom Length 53 ft. (A) | | | Boom Length 66 ft. (B) | | | Boom Length 78 ft. (C) | | |
|-------------------|-------------------------|-------------------------|---------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|
| | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | |
| 6 | 73.5 | 100,000 | 100,000 | | | | | | | | | |
| 8 | 70.5 | 86,600 | 86,600 | | | | | | | | | |
| 10 | 67 | 76,400 | 76,400 | 74.5 | 51,000 | 51,000 | 78 | 51,000 | 51,000 | | | |
| 12 | 64 | 68,400 | 68,400 | 72.5 | 51,000 | 51,000 | 76.5 | 51,000 | 51,000 | 79 | 41,710 | 41,710 |
| 15 | 59 | 59,000 | 59,000 | 68.5 | 51,000 | 51,000 | 73.5 | 46,650 | 46,650 | 77 | 37,880 | 37,880 |
| 20 | 49.5 | 47,670 | 47,670 | 62.5 | 45,700 | 45,700 | 69 | 39,300 | 39,300 | 73 | 32,140 | 32,140 |
| 25 | 38.5 | 36,900 | 36,900 | 56 | 37,680 | 37,680 | 64 | 33,450 | 33,450 | 69 | 27,890 | 27,890 |
| 30 | 23.5 | 29,590 | 26,680 | 49.5 | 30,410 | 27,890 | 59 | 29,140 | 28,440 | 65 | 24,230 | 24,230 |
| 35 | | | | 41.5 | 25,170 | 20,650 | 54 | 25,490 | 21,160 | 61 | 21,310 | 21,310 |
| 40 | | | | 32 | 20,620 | 15,940 | 48 | 21,090 | 16,440 | 56.5 | 19,160 | 16,730 |
| 45 | | | | 18.5 | 16,770 | 12,610 | 42 | 17,270 | 13,130 | 52 | 17,070 | 13,410 |
| 50 | | | | | | | 34.5 | 14,390 | 10,670 | 46.5 | 14,660 | 10,950 |
| 55 | | | | | | | 25 | 12,140 | 8,760 | 41 | 12,420 | 9,050 |
| 60 | | | | | | | 7 | 9,790 | 7,200 | 35 | 10,620 | 7,540 |
| 65 | | | | | | | | | | 27 | 9,140 | 6,300 |
| 70 | | | | | | | | | | 16 | 7,890 | 5,260 |
| SJ | 1,230 lbs. | | | 890 lbs. | | | 720 lbs. | | | 610 lbs. | | |
| EJR | 2,840 lbs. | | | 2,620 lbs. | | | 2,500 lbs. | | | 2,430 lbs. | | |
| EJE | 3,170 lbs. | | | 2,860 lbs. | | | 2,700 lbs. | | | 2,600 lbs. | | |

| Boom Length (ft.) | Boom Length 91 ft. (D) | | | Boom Length 103 ft. (E) | | | Boom Length 116 ft. (F) | | | Boom Length 128 ft. (G) | | |
|-------------------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|
| | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | |
| 15 | 79 | 30,000 | 30,000 | | | | | | | | | |
| 20 | 76 | 26,010 | 26,010 | 78.5 | 22,790 | 22,790 | | | | | | |
| 25 | 72.5 | 22,620 | 22,620 | 75.5 | 20,160 | 20,160 | 78 | 17,660 | 17,660 | | | |
| 30 | 69.5 | 20,000 | 20,000 | 72.5 | 18,080 | 18,080 | 75.5 | 16,060 | 16,060 | 77.5 | 13,000 | 13,000 |
| 35 | 66 | 17,710 | 17,710 | 70.5 | 16,070 | 16,070 | 73 | 14,480 | 14,480 | 75.5 | 12,760 | 12,760 |
| 40 | 62.5 | 15,740 | 15,740 | 67.5 | 14,360 | 14,360 | 70.5 | 13,050 | 13,050 | 73 | 11,760 | 11,760 |
| 45 | 59 | 14,050 | 13,620 | 64 | 12,900 | 12,900 | 68 | 11,780 | 11,780 | 71 | 10,800 | 10,800 |
| 50 | 55 | 12,620 | 11,150 | 60.5 | 11,610 | 11,290 | 65 | 10,640 | 10,640 | 68.5 | 10,000 | 10,000 |
| 55 | 50.5 | 11,380 | 9,250 | 57 | 10,500 | 9,380 | 62 | 9,890 | 9,490 | 66 | 9,130 | 9,130 |
| 60 | 46.5 | 10,340 | 7,740 | 53.5 | 9,760 | 7,870 | 59 | 8,970 | 7,970 | 63.5 | 8,320 | 8,050 |
| 65 | 41.5 | 9,340 | 6,510 | 50 | 8,860 | 6,640 | 56 | 8,160 | 6,740 | 60.5 | 7,570 | 6,820 |
| 70 | 36.5 | 8,110 | 5,490 | 46 | 8,060 | 5,620 | 53 | 7,430 | 5,720 | 58 | 6,910 | 5,790 |
| 75 | 30 | 7,060 | 4,620 | 41.5 | 7,190 | 4,750 | 49.5 | 6,780 | 4,860 | 55 | 6,300 | 4,930 |
| 80 | 22 | 6,160 | 3,870 | 37 | 6,300 | 4,020 | 46 | 6,180 | 4,120 | 52 | 5,750 | 4,190 |
| 85 | 7 | 5,290 | 3,200 | 31.5 | 5,520 | 3,380 | 42.5 | 5,620 | 3,480 | 49 | 5,250 | 3,550 |
| 90 | | | | 25 | 4,830 | 2,810 | 38 | 4,940 | 2,920 | 46 | 4,790 | 3,000 |
| 95 | | | | 15.5 | 4,210 | 2,300 | 33.5 | 4,340 | 2,430 | 42 | 4,370 | 2,510 |
| 100 | | | | | | | 28.5 | 3,800 | 1,990 | 38.5 | 3,870 | 2,070 |
| 105 | | | | | | | 21.5 | 3,310 | 1,590 | 34 | 3,390 | 1,680 |
| 110 | | | | | | | 7.5 | 2,860 | 1,220 | 29.5 | 2,960 | 1,320 |
| 115 | | | | | | | | | | 23.5 | 2,560 | 1,000 |
| 120 | | | | | | | | | | 15 | 2,200 | |
| SJ | 520 lbs. | | | 460 lbs. | | | 410 lbs. | | | 370 lbs. | | |
| EJR | 2,370 lbs. | | | 2,330 lbs. | | | 2,300 lbs. | | | 2,280 lbs. | | |
| EJE | 2,520 lbs. | | | 2,460 lbs. | | | 2,410 lbs. | | | 2,380 lbs. | | |



DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS

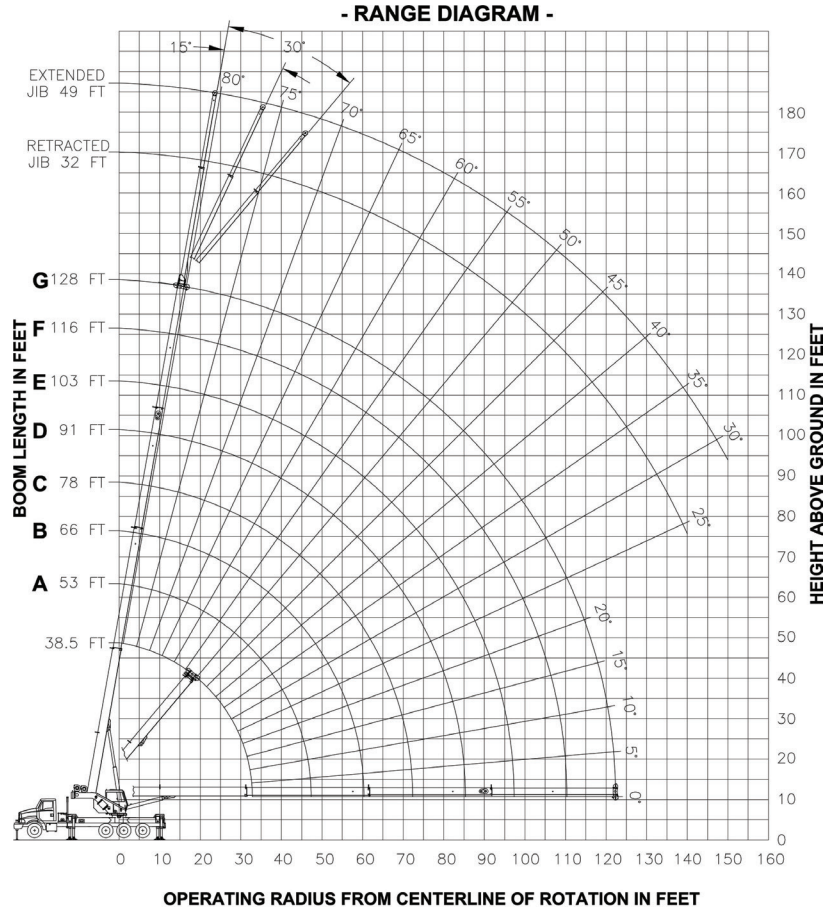
SJ = Stowed Jib,
EJR = Erected Jib Retracted,
EJE = Erected Jib Extended

NOTES:

- Loads based on crane on outriggers
- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on tipping rating

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50128 BOOM DIAGRAM & JIB LOAD CAPACITIES



23'-3" (7.07 m) (100%)

23'-3" (7.07 m) (100%)


| 32 FT. RETRACTED JIB LOAD CAPACITIES | | | | | | | | | | |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | 45° Offset | | 60° Offset | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 35 | 78 | 5,400 | 5,400 | | | | | | | |
| 40 | 76.5 | 5,400 | 5,400 | 79.5 | 5,400 | 5,400 | | | | |
| 45 | 75 | 5,400 | 5,400 | 78 | 5,400 | 5,400 | | | | |
| 50 | 73.5 | 5,400 | 5,400 | 76.5 | 5,400 | 5,400 | 79 | 5,400 | 5,400 | |
| 55 | 72 | 5,400 | 5,400 | 74.5 | 5,400 | 5,400 | 77 | 5,400 | 5,400 | |
| 60 | 70 | 5,400 | 5,400 | 73 | 5,400 | 5,400 | 75 | 5,400 | 5,400 | |
| 65 | 68.5 | 5,400 | 5,400 | 71 | 5,400 | 5,400 | 73 | 5,240 | 5,240 | |
| 70 | 66.5 | 5,210 | 5,210 | 69 | 5,230 | 5,230 | 71.5 | 4,990 | 4,990 | |
| 75 | 64.5 | 4,740 | 4,740 | 67 | 4,970 | 4,970 | 69.5 | 4,750 | 4,750 | |
| 80 | 62.5 | 4,300 | 4,030 | 65 | 4,570 | 4,480 | 67.5 | 4,520 | 4,520 | |
| 85 | 60.5 | 3,890 | 3,390 | 63 | 4,140 | 3,790 | 65 | 4,310 | 4,120 | |
| 90 | 58 | 3,510 | 2,820 | 61 | 3,740 | 3,190 | 63 | 3,930 | 3,480 | |
| 95 | 55.5 | 3,160 | 2,320 | 58.5 | 3,360 | 2,650 | 60.5 | 3,540 | 2,920 | |
| 100 | 53 | 2,820 | 1,880 | 56 | 3,010 | 2,180 | 58 | 3,170 | 2,410 | |
| 105 | 50.5 | 2,520 | 1,490 | 53.5 | 2,690 | 1,760 | 55.5 | 2,830 | 1,960 | |
| 110 | 48 | 2,230 | 1,130 | 50.5 | 2,390 | 1,380 | 52.5 | 2,510 | 1,560 | |
| 115 | 45.5 | 1,960 | 810 | 48 | 2,100 | 1,030 | 49.5 | 2,210 | 1,180 | |
| 120 | 42.5 | 1,700 | | 45 | 1,830 | | 46.5 | 1,920 | 840 | |
| 125 | 39.5 | 1,470 | | 42 | 1,580 | | 43 | 1,660 | | |
| 130 | 36.5 | 1,240 | | 38.5 | 1,350 | | 39.5 | 1,400 | | |
| 135 | 32.5 | 1,030 | | 34.5 | 1,120 | | 35.5 | 1,160 | | |
| 140 | 28.5 | 840 | | 30.5 | 910 | | 30.5 | 920 | | |





| 49 FT. EXTENDED JIB LOAD CAPACITIES | | | | | | | | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | 45° Offset | | 60° Offset | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 40 | 78 | 4,300 | 4,300 | | | | | | | |
| 45 | 76.5 | 4,300 | 4,300 | | | | | | | |
| 50 | 75 | 4,300 | 4,300 | 79.5 | 4,300 | 4,300 | | | | |
| 55 | 73.5 | 4,300 | 4,300 | 78 | 4,300 | 4,300 | | | | |
| 60 | 72 | 4,300 | 4,300 | 76.5 | 4,300 | 4,300 | 79.5 | 3,700 | 3,700 | |
| 65 | 70.5 | 4,300 | 4,300 | 75 | 4,300 | 4,300 | 78 | 3,590 | 3,590 | |
| 70 | 69 | 4,300 | 4,300 | 73.5 | 4,230 | 4,230 | 76 | 3,490 | 3,490 | |
| 75 | 67.5 | 4,300 | 4,300 | 71.5 | 4,080 | 4,080 | 74 | 3,390 | 3,390 | |
| 80 | 66 | 4,240 | 4,240 | 70 | 3,930 | 3,930 | 72.5 | 3,300 | 3,300 | |
| 85 | 64.5 | 4,030 | 4,010 | 68.5 | 3,760 | 3,760 | 70.5 | 3,220 | 3,220 | |
| 90 | 63 | 3,740 | 3,430 | 66.5 | 3,590 | 3,590 | 69 | 3,140 | 3,140 | |
| 95 | 61 | 3,430 | 2,930 | 64.5 | 3,420 | 3,420 | 67 | 3,070 | 3,070 | |
| 100 | 59 | 3,120 | 2,480 | 62.5 | 3,270 | 2,950 | 65 | 3,000 | 3,000 | |
| 105 | 57 | 2,840 | 2,080 | 60.5 | 3,100 | 2,510 | 63 | 2,940 | 2,870 | |
| 110 | 54.5 | 2,560 | 1,720 | 58 | 2,810 | 2,120 | 61 | 2,880 | 2,440 | |
| 115 | 52 | 2,310 | 1,400 | 56 | 2,540 | 1,760 | 58.5 | 2,720 | 2,050 | |
| 120 | 49.5 | 2,070 | 1,100 | 53.5 | 2,280 | 1,430 | 56 | 2,450 | 1,690 | |
| 125 | 47 | 1,840 | 830 | 51 | 2,040 | 1,130 | 53.5 | 2,190 | 1,360 | |
| 130 | 44.5 | 1,630 | | 48 | 1,810 | 860 | 50.5 | 1,940 | 1,060 | |
| 135 | 42 | 1,430 | | 45.5 | 1,590 | | 47.5 | 1,700 | 770 | |
| 140 | 39.5 | 1,240 | | 42.5 | 1,390 | | 44.5 | 1,480 | | |
| 145 | 36.5 | 1,060 | | 39.5 | 1,190 | | 41 | 1,260 | | |
| 150 | 33 | 900 | | 36 | 1,000 | | 37 | 1,050 | | |
| 155 | | | | 32 | 820 | | 32.5 | 850 | | |





Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

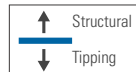
50128HL LOAD CHART: Main Boom

Lifting Capacities 4-section Boom 38.5 ft. - 128 ft. - Full Outrigger Extension

 23'-3" (7.07 m) (100%)

| Boom Length (ft.) | Boom Length 38.5 ft. | | | Boom Length 53 ft. (A) | | | Boom Length 66 ft. (B) | | | Boom Length 78 ft. (C) | | |
|-------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|--|-------------------------|-------------------------|
| |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |
| 6 | 73.5 | 100,000 | 100,000 | | | | | | | | | |
| 8 | 70.5 | 86,600 | 86,600 | | | | | | | | | |
| 10 | 67 | 76,400 | 76,400 | 74.5 | 51,000 | 51,000 | 78 | 51,000 | 51,000 | | | |
| 12 | 64 | 68,400 | 68,400 | 72.5 | 51,000 | 51,000 | 76.5 | 51,000 | 51,000 | 79 | 41,710 | 41,710 |
| 15 | 59 | 59,000 | 59,000 | 68.5 | 51,000 | 51,000 | 73.5 | 46,650 | 46,650 | 77 | 37,880 | 37,880 |
| 20 | 49.5 | 47,700 | 47,700 | 62.5 | 45,700 | 45,700 | 69 | 39,300 | 39,300 | 73 | 32,140 | 32,140 |
| 25 | 38.5 | 38,300 | 38,300 | 56 | 38,400 | 38,400 | 64 | 33,450 | 33,450 | 69 | 27,890 | 27,890 |
| 30 | 23.5 | 30,200 | 30,200 | 49.5 | 31,590 | 31,590 | 59 | 29,140 | 29,140 | 65 | 24,230 | 24,230 |
| 35 | | | | 41.5 | 26,180 | 23,590 | 54 | 25,490 | 24,100 | 61 | 21,310 | 21,310 |
| 40 | | | | 32 | 22,080 | 18,360 | 48 | 22,480 | 18,860 | 56.5 | 19,160 | 19,150 |
| 45 | | | | 18.5 | 18,340 | 14,670 | 42 | 19,280 | 15,190 | 52 | 17,070 | 15,470 |
| 50 | | | | | | | 34.5 | 16,710 | 12,460 | 46.5 | 15,330 | 12,740 |
| 55 | | | | | | | 25 | 14,420 | 10,350 | 41 | 13,850 | 10,630 |
| 60 | | | | | | | 7 | 9,790 | 8,620 | 35 | 12,560 | 8,960 |
| 65 | | | | | | | | | | 27 | 11,000 | 7,590 |
| 70 | | | | | | | | | | 16 | 9,600 | 6,440 |
| SJ | | 1,230 lbs. | | | 890 lbs. | | | 720 lbs. | | | 610 lbs. | |
| EJR | | 2,840 lbs. | | | 2,620 lbs. | | | 2,500 lbs. | | | 2,430 lbs. | |
| EJE | | 3,170 lbs. | | | 2,860 lbs. | | | 2,700 lbs. | | | 2,600 lbs. | |

| Boom Length (ft.) | Boom Length 91 ft. (D) | | | Boom Length 103 ft. (E) | | | Boom Length 116 ft. (F) | | | Boom Length 128 ft. (G) | | |
|-------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|--|-------------------------|-------------------------|
| |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |
| 15 | 79 | 30,000 | 30,000 | | | | | | | | | |
| 20 | 76 | 26,010 | 26,010 | 78.5 | 22,790 | 22,790 | | | | | | |
| 25 | 72.5 | 22,620 | 22,620 | 75.5 | 20,160 | 20,160 | 78 | 17,660 | 17,660 | | | |
| 30 | 69.5 | 20,000 | 20,000 | 72.5 | 18,080 | 18,080 | 75.5 | 16,060 | 16,060 | 77.5 | 13,000 | 13,000 |
| 35 | 66 | 17,710 | 17,710 | 70.5 | 16,070 | 16,070 | 73 | 14,480 | 14,480 | 75.5 | 12,760 | 12,760 |
| 40 | 62.5 | 15,740 | 15,740 | 67.5 | 14,360 | 14,360 | 70.5 | 13,050 | 13,050 | 73 | 11,760 | 11,760 |
| 45 | 59 | 14,050 | 14,050 | 64 | 12,900 | 12,900 | 68 | 11,780 | 11,780 | 71 | 10,800 | 10,800 |
| 50 | 55 | 12,620 | 12,620 | 60.5 | 11,610 | 11,610 | 65 | 10,640 | 10,640 | 68.5 | 10,000 | 10,000 |
| 55 | 50.5 | 11,380 | 10,830 | 57 | 10,500 | 10,500 | 62 | 9,890 | 9,890 | 66 | 9,130 | 9,130 |
| 60 | 46.5 | 10,340 | 9,160 | 53.5 | 9,760 | 9,290 | 59 | 8,970 | 8,970 | 63.5 | 8,320 | 8,320 |
| 65 | 41.5 | 9,630 | 7,800 | 50 | 8,860 | 7,930 | 56 | 8,160 | 8,030 | 60.5 | 7,570 | 7,570 |
| 70 | 36.5 | 8,770 | 6,660 | 46 | 8,060 | 6,790 | 53 | 7,430 | 6,900 | 58 | 6,910 | 6,910 |
| 75 | 30 | 8,000 | 5,700 | 41.5 | 7,350 | 5,840 | 49.5 | 6,780 | 5,940 | 55 | 6,300 | 6,010 |
| 80 | 22 | 7,320 | 4,880 | 37 | 6,720 | 5,020 | 46 | 6,180 | 5,130 | 52 | 5,750 | 5,200 |
| 85 | 7 | 5,290 | 4,140 | 31.5 | 6,140 | 4,310 | 42.5 | 5,650 | 4,420 | 49 | 5,250 | 4,490 |
| 90 | | | | 25 | 5,630 | 3,690 | 38 | 5,160 | 3,800 | 46 | 4,790 | 3,870 |
| 95 | | | | 15.5 | 5,160 | 3,130 | 33.5 | 4,720 | 3,260 | 42 | 4,370 | 3,330 |
| 100 | | | | | | | 28.5 | 4,310 | 2,770 | 38.5 | 3,980 | 2,850 |
| 105 | | | | | | | 21.5 | 3,940 | 2,330 | 34 | 3,620 | 2,410 |
| 110 | | | | | | | 7.5 | 3,610 | 1,920 | 29.5 | 3,300 | 2,020 |
| 115 | | | | | | | | | | 23.5 | 2,990 | 1,660 |
| 120 | | | | | | | | | | 15 | 2,710 | 1,330 |
| SJ | | 520 lbs. | | | 460 lbs. | | | 410 lbs. | | | 370 lbs. | |
| EJR | | 2,370 lbs. | | | 2,330 lbs. | | | 2,300 lbs. | | | 2,280 lbs. | |
| EJE | | 2,520 lbs. | | | 2,460 lbs. | | | 2,410 lbs. | | | 2,380 lbs. | |



DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS

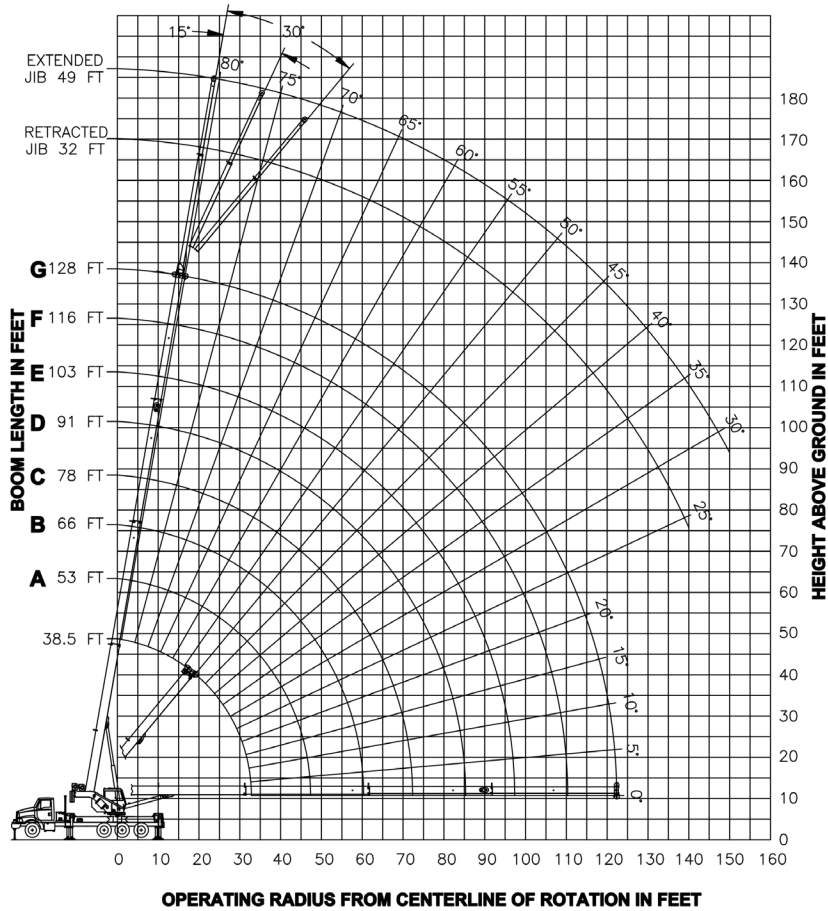
SJ = Stowed Jib,
EJR = Erected Jib Retracted,
EJE = Erected Jib Extended

NOTES:

- Loads based on crane on outriggers
- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on tipping rating

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50128HL BOOM DIAGRAM & JIB LOAD CAPACITIES



23'-3" (7.07 m) (100%)

23'-3" (7.07 m) (100%)

| 32 FT. RETRACTED JIB LOAD CAPACITIES | | | | | | | | | | |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | 45° Offset | | 60° Offset | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 35 | 78 | 5,400 | 5,400 | | | | | | | |
| 40 | 76.5 | 5,400 | 5,400 | 79.5 | 5,400 | 5,400 | | | | |
| 45 | 75 | 5,400 | 5,400 | 78 | 5,400 | 5,400 | | | | |
| 50 | 73.5 | 5,400 | 5,400 | 76.5 | 5,400 | 5,400 | 79 | 5,400 | 5,400 | |
| 55 | 72 | 5,400 | 5,400 | 74.5 | 5,400 | 5,400 | 77 | 5,400 | 5,400 | |
| 60 | 70 | 5,400 | 5,400 | 73 | 5,400 | 5,400 | 75 | 5,400 | 5,400 | |
| 65 | 68.5 | 5,400 | 5,400 | 71 | 5,400 | 5,400 | 73 | 5,240 | 5,240 | |
| 70 | 66.5 | 5,210 | 5,210 | 69 | 5,230 | 5,230 | 71.5 | 4,990 | 4,990 | |
| 75 | 64.5 | 4,740 | 4,740 | 67 | 4,970 | 4,970 | 69.5 | 4,750 | 4,750 | |
| 80 | 62.5 | 4,300 | 4,300 | 65 | 4,570 | 4,570 | 67.5 | 4,520 | 4,520 | |
| 85 | 60.5 | 3,890 | 3,890 | 63 | 4,140 | 4,140 | 65 | 4,310 | 4,310 | |
| 90 | 58 | 3,510 | 3,510 | 61 | 3,740 | 3,740 | 63 | 3,930 | 3,930 | |
| 95 | 55.5 | 3,160 | 3,150 | 58.5 | 3,360 | 3,360 | 60.5 | 3,540 | 3,540 | |
| 100 | 53 | 2,820 | 2,660 | 56 | 3,010 | 2,960 | 58 | 3,170 | 3,170 | |
| 105 | 50.5 | 2,520 | 2,220 | 53.5 | 2,690 | 2,490 | 55.5 | 2,830 | 2,700 | |
| 110 | 48 | 2,230 | 1,830 | 50.5 | 2,390 | 2,080 | 52.5 | 2,510 | 2,250 | |
| 115 | 45.5 | 1,960 | 1,480 | 48 | 2,100 | 1,700 | 49.5 | 2,210 | 1,850 | |
| 120 | 42.5 | 1,700 | 1,160 | 45 | 1,830 | 1,350 | 46.5 | 1,920 | 1,480 | |
| 125 | 39.5 | 1,470 | 860 | 42 | 1,580 | 1,030 | 43 | 1,660 | 1,130 | |
| 130 | 36.5 | 1,240 | | 38.5 | 1,350 | | 39.5 | 1,400 | | |
| 135 | 32.5 | 1,030 | | 34.5 | 1,120 | | 35.5 | 1,160 | | |
| 140 | 28.5 | 840 | | 30.5 | 910 | | 30.5 | 920 | | |

| 49 FT. EXTENDED JIB LOAD CAPACITIES | | | | | | | | | | |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | 30° Offset | | 45° Offset | | 60° Offset | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) |
| 40 | 78 | 4,300 | 4,300 | | | | | | | |
| 45 | 76.5 | 4,300 | 4,300 | | | | | | | |
| 50 | 75 | 4,300 | 4,300 | 79.5 | 4,300 | 4,300 | | | | |
| 55 | 73.5 | 4,300 | 4,300 | 78 | 4,300 | 4,300 | | | | |
| 60 | 72 | 4,300 | 4,300 | 76.5 | 4,300 | 4,300 | 79.5 | 3,700 | 3,700 | |
| 65 | 70.5 | 4,300 | 4,300 | 75 | 4,300 | 4,300 | 78 | 3,590 | 3,590 | |
| 70 | 69 | 4,300 | 4,300 | 73.5 | 4,230 | 4,230 | 76 | 3,490 | 3,490 | |
| 75 | 67.5 | 4,300 | 4,300 | 71.5 | 4,080 | 4,080 | 74 | 3,390 | 3,390 | |
| 80 | 66 | 4,240 | 4,240 | 70 | 3,930 | 3,930 | 72.5 | 3,300 | 3,300 | |
| 85 | 64.5 | 4,030 | 4,030 | 68.5 | 3,760 | 3,760 | 70.5 | 3,220 | 3,220 | |
| 90 | 63 | 3,740 | 3,740 | 66.5 | 3,590 | 3,590 | 69 | 3,140 | 3,140 | |
| 95 | 61 | 3,430 | 3,430 | 64.5 | 3,420 | 3,420 | 67 | 3,070 | 3,070 | |
| 100 | 59 | 3,120 | 3,120 | 62.5 | 3,270 | 3,270 | 65 | 3,000 | 3,000 | |
| 105 | 57 | 2,840 | 2,820 | 60.5 | 3,100 | 3,100 | 63 | 2,940 | 2,940 | |
| 110 | 54.5 | 2,560 | 2,420 | 58 | 2,810 | 2,810 | 61 | 2,880 | 2,880 | |
| 115 | 52 | 2,310 | 2,060 | 56 | 2,540 | 2,420 | 58.5 | 2,720 | 2,710 | |
| 120 | 49.5 | 2,070 | 1,740 | 53.5 | 2,280 | 2,070 | 56 | 2,450 | 2,320 | |
| 125 | 47 | 1,840 | 1,440 | 51 | 2,040 | 1,740 | 53.5 | 2,190 | 1,970 | |
| 130 | 44.5 | 1,630 | 1,170 | 48 | 1,810 | 1,440 | 50.5 | 1,940 | 1,640 | |
| 135 | 42 | 1,430 | 920 | 45.5 | 1,590 | 1,160 | 47.5 | 1,700 | 1,330 | |
| 140 | 39.5 | 1,240 | | 42.5 | 1,390 | 900 | 44.5 | 1,480 | 1,040 | |
| 145 | 36.5 | 1,060 | | 39.5 | 1,190 | | 41 | 1,260 | 770 | |
| 150 | 33 | 900 | | 36 | 1,000 | | 37 | 1,050 | | |
| 155 | | | | 32 | 820 | | 32.5 | 850 | | |

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50155 LOAD CHART: Main Boom



Lifting Capacities 5-section Boom 38.5 ft. - 155 ft. Full Outrigger Extension

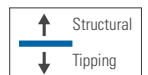
23'-3" (7.07 m) (100%)

| Boom Length (ft.) | Boom Length 38.5 ft. | | | Boom Length 63 ft. (A) | | | Boom Length 74 ft. (B) | | | Boom Length 86 ft. (C) | | | Boom Length 97 ft. (D) | | |
|-------------------|-------------------------|-------------------------|---------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|-------------------------|-------------------------|--------|
| | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) | |
| 6 | 73.5 | 100,000 | 100,000 | | | | | | | | | | | | |
| 8 | 70.5 | 85,400 | 85,400 | | | | | | | | | | | | |
| 10 | 67 | 75,100 | 75,100 | 77 | 40,000 | 40,000 | | | | | | | | | |
| 12 | 64 | 67,100 | 67,100 | 75 | 40,000 | 40,000 | 78 | 37,700 | 37,700 | | | | | | |
| 15 | 58.5 | 57,700 | 57,700 | 72.5 | 40,000 | 40,000 | 75.5 | 36,340 | 36,340 | 78.5 | 31,000 | 31,000 | | | |
| 20 | 49 | 46,070 | 46,070 | 67.5 | 38,250 | 38,250 | 72 | 33,380 | 33,380 | 75 | 28,200 | 28,200 | 77.5 | 24,120 | 24,120 |
| 25 | 38 | 35,280 | 35,280 | 62.5 | 35,040 | 35,040 | 67.5 | 30,620 | 30,620 | 71.5 | 25,970 | 25,970 | 74.5 | 22,200 | 22,200 |
| 30 | 22.5 | 27,920 | 27,490 | 57 | 29,140 | 29,140 | 63 | 28,020 | 28,020 | 68 | 23,950 | 23,950 | 71 | 20,480 | 20,480 |
| 35 | | | | 51.5 | 23,890 | 21,500 | 58.5 | 24,130 | 21,830 | 64 | 22,080 | 22,080 | 68 | 18,670 | 18,670 |
| 40 | | | | 45 | 19,920 | 16,460 | 54 | 20,170 | 16,770 | 60.5 | 20,350 | 17,010 | 65 | 17,210 | 17,170 |
| 45 | | | | 38 | 16,810 | 12,910 | 48.5 | 17,060 | 13,220 | 56.5 | 17,250 | 13,450 | 61.5 | 15,920 | 13,610 |
| 50 | | | | 29.5 | 14,290 | 10,280 | 43 | 14,570 | 10,590 | 52 | 14,760 | 10,820 | 58 | 14,720 | 10,970 |
| 55 | | | | 17 | 12,200 | 8,210 | 37 | 12,510 | 8,560 | 47.5 | 12,710 | 8,790 | 54 | 12,830 | 8,940 |
| 60 | | | | | | | 29 | 10,780 | 6,940 | 42.5 | 11,000 | 7,180 | 50 | 11,120 | 7,320 |
| 65 | | | | | | | 19 | 9,300 | 5,600 | 37 | 9,540 | 5,860 | 46 | 9,670 | 6,010 |
| 70 | | | | | | | | | | 30.5 | 8,280 | 4,760 | 41.5 | 8,420 | 4,920 |
| 75 | | | | | | | | | | 22.5 | 7,170 | 3,830 | 36.5 | 7,330 | 3,990 |
| 80 | | | | | | | | | | 7.5 | 4,360 | 2,990 | 30.5 | 6,370 | 3,200 |
| 85 | | | | | | | | | | | | | 23.5 | 5,520 | 2,510 |
| 90 | | | | | | | | | | | | | 12 | 4,140 | 1,880 |
| SJ | 960 lbs. | | | 590 lbs. | | | 500 lbs. | | | 430 lbs. | | | 390 lbs. | | |
| EJ | 2,620 lbs. | | | 2,270 lbs. | | | 2,190 lbs. | | | 2,130 lbs. | | | 2,080 lbs. | | |
| | Boom Length 109 ft. (E) | | | Boom Length 120 ft. (F) | | | Boom Length 132 ft. (G) | | | Boom Length 143 ft. (H) | | | Boom Length 155 ft. (I) | | |
| 25 | 77 | 18,000 | 18,000 | 79 | 16,260 | 16,260 | | | | | | | | | |
| 30 | 74 | 17,000 | 17,000 | 76.5 | 15,280 | 15,280 | 78 | 13,500 | 13,500 | 79.5 | 11,500 | 11,500 | | | |
| 35 | 71.5 | 15,920 | 15,920 | 74 | 14,270 | 14,270 | 76 | 12,900 | 12,900 | 77.5 | 11,300 | 11,300 | 79 | 9,000 | 9,000 |
| 40 | 68.5 | 14,700 | 14,700 | 71.5 | 13,310 | 13,310 | 74 | 12,000 | 12,000 | 75.5 | 11,000 | 11,000 | 77 | 9,000 | 9,000 |
| 45 | 65.5 | 13,570 | 13,570 | 69 | 12,410 | 12,410 | 71.5 | 11,300 | 11,300 | 73.5 | 10,460 | 10,460 | 75.5 | 9,000 | 9,000 |
| 50 | 62.5 | 12,540 | 11,100 | 66 | 11,600 | 11,180 | 69 | 10,550 | 10,550 | 71.5 | 9,460 | 9,460 | 73.5 | 8,800 | 8,800 |
| 55 | 59.5 | 11,580 | 9,060 | 63.5 | 10,840 | 9,150 | 67 | 9,610 | 9,220 | 69.5 | 8,880 | 8,880 | 71.5 | 8,320 | 8,320 |
| 60 | 56 | 10,690 | 7,440 | 60.5 | 9,960 | 7,530 | 64.5 | 9,000 | 7,600 | 67.5 | 8,330 | 7,650 | 69.5 | 7,820 | 7,700 |
| 65 | 53 | 9,770 | 6,130 | 57.5 | 9,230 | 6,210 | 62 | 8,430 | 6,280 | 65 | 7,800 | 6,330 | 67.5 | 7,340 | 6,380 |
| 70 | 49 | 8,530 | 5,040 | 54.5 | 8,550 | 5,120 | 59 | 7,880 | 5,190 | 62.5 | 7,300 | 5,240 | 65.5 | 6,880 | 5,290 |
| 75 | 45.5 | 7,440 | 4,120 | 51.5 | 7,520 | 4,200 | 56.5 | 7,390 | 4,270 | 60.5 | 6,820 | 4,320 | 63.5 | 6,410 | 4,360 |
| 80 | 41.5 | 6,490 | 3,330 | 48 | 6,570 | 3,410 | 53.5 | 6,630 | 3,480 | 58 | 6,360 | 3,530 | 61.5 | 5,980 | 3,570 |
| 85 | 37 | 5,650 | 2,640 | 44.5 | 5,730 | 2,730 | 50.5 | 5,790 | 2,800 | 55.5 | 5,830 | 2,850 | 59 | 5,560 | 2,890 |
| 90 | 32 | 4,890 | 2,040 | 41 | 4,980 | 2,130 | 47.5 | 5,040 | 2,200 | 52.5 | 5,090 | 2,250 | 57 | 5,120 | 2,300 |
| 95 | 25.5 | 4,210 | 1,510 | 36.5 | 4,300 | 1,610 | 44.5 | 4,370 | 1,680 | 50 | 4,420 | 1,730 | 54.5 | 4,460 | 1,770 |
| 100 | 17 | 3,590 | 1,030 | 32 | 3,700 | 1,140 | 41 | 3,770 | 1,210 | 47 | 3,820 | 1,260 | 52 | 3,850 | 1,310 |
| 105 | | | | 26 | 3,140 | | 37 | 3,220 | | 44 | 3,270 | 850 | 49.5 | 3,310 | 890 |
| 110 | | | | 19 | 2,630 | | 33 | 2,720 | | 40.5 | 2,770 | | 47 | 2,810 | |
| 115 | | | | | | | 28 | 2,250 | | 37 | 2,310 | | 44 | 2,360 | |
| 120 | | | | | | | 22 | 1,830 | | 33 | 1,890 | | 41 | 1,940 | |
| 125 | | | | | | | 12 | 860 | | 28.5 | 1,500 | | 37.5 | 1,550 | |
| 130 | | | | | | | | | | 23 | 1,140 | | 34 | 1,190 | |
| SJ | 340 lbs. | | | 310 lbs. | | | 280 lbs. | | | 260 lbs. | | | 240 lbs. | | |
| EJ | 2,050 lbs. | | | 2,020 lbs. | | | 1,990 lbs. | | | 1,970 lbs. | | | 1,950 lbs. | | |

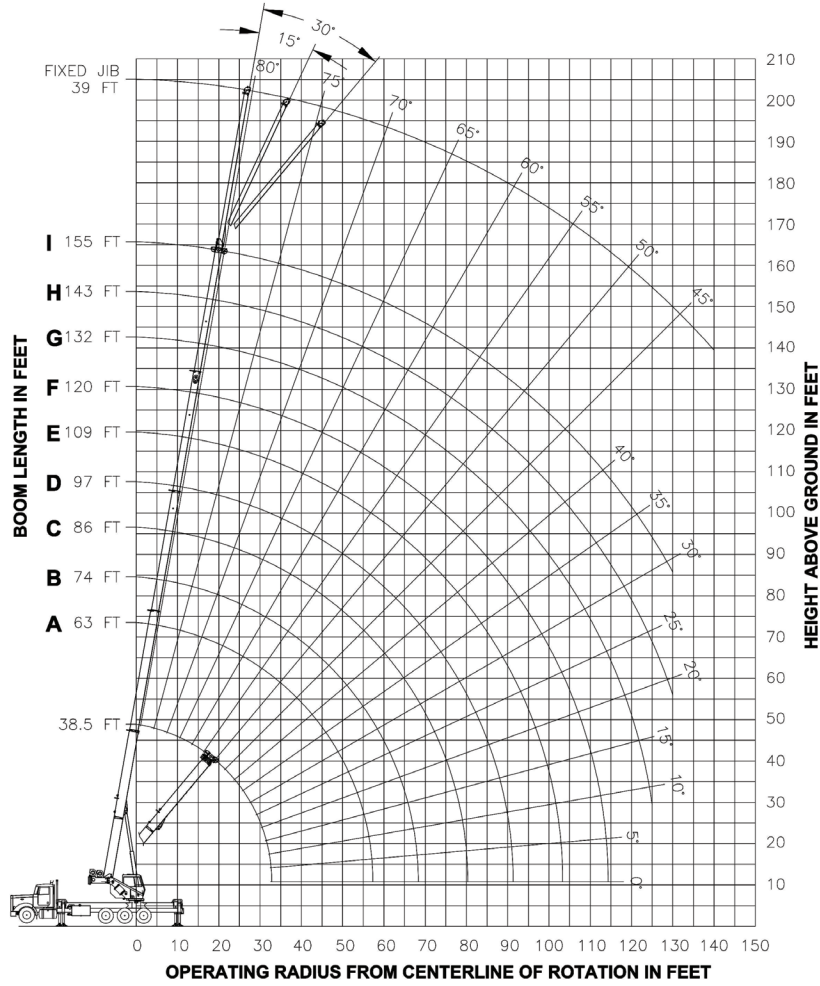
NOTES:

- All "on outriggers" loads are based on 85% tipping
- Loads based on crane on outriggers
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on tipping rating

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS - SJ
 = Stowed Jib, EJ= Erected Jib



50155 BOOM DIAGRAM & JIB LOAD CAPACITIES




| 39 FT. FIXED JIB LOAD CAPACITIES | | | | | | | | | |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | | 30° Offset | | | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | |
| 40 | 80 | 4,000 | | | | | | | |
| 45 | 78 | 4,000 | | | | | | | |
| 50 | 77.5 | 4,000 | 80 | 4,000 | 4,000 | | | | |
| 55 | 75.5 | 4,000 | 78 | 4,000 | 4,000 | | | | |
| 60 | 74 | 4,000 | 76.5 | 4,000 | 4,000 | 80 | 4,000 | 4,000 | |
| 65 | 72.5 | 4,000 | 75 | 4,000 | 4,000 | 78 | 4,000 | 4,000 | |
| 70 | 71 | 4,000 | 73.5 | 4,000 | 4,000 | 76 | 4,000 | 4,000 | |
| 75 | 69.5 | 4,000 | 72 | 4,000 | 4,000 | 74.5 | 3,880 | 3,880 | |
| 80 | 68 | 4,000 | 71 | 3,940 | 3,940 | 73 | 3,730 | 3,730 | |
| 85 | 66.5 | 3,860 | 69.5 | 3,780 | 3,780 | 71.5 | 3,570 | 3,570 | |
| 90 | 65 | 3,720 | 67.5 | 3,630 | 3,350 | 70 | 3,430 | 3,430 | |
| 95 | 63.5 | 3,430 | 66 | 3,480 | 2,760 | 68 | 3,290 | 3,230 | |
| 100 | 61.5 | 3,150 | 64.5 | 3,340 | 2,250 | 66.5 | 3,160 | 2,670 | |
| 105 | 60 | 2,880 | 62.5 | 3,180 | 1,780 | 65 | 3,030 | 2,170 | |
| 110 | 58 | 2,610 | 61 | 2,880 | 1,370 | 63 | 2,920 | 1,720 | |
| 115 | 56 | 2,360 | 59 | 2,610 | 990 | 61 | 2,800 | 1,310 | |
| 120 | 54.5 | 2,130 | 57 | 2,350 | | 59 | 2,570 | 940 | |
| 125 | 52.5 | 1,840 | 55 | 2,110 | | 57 | 2,290 | | |
| 130 | 50.5 | 1,490 | 53 | 1,830 | | 55 | 2,040 | | |
| 135 | 48.5 | 1,160 | 51 | 1,480 | | 53 | 1,710 | | |
| 140 | 46 | 860 | 48.5 | 1,150 | | 50.5 | 1,350 | | |
| 145 | | | 46.5 | 840 | | 48 | 1,020 | | |






23'-3" (7.07 m) (100%)

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

50155HL LOAD CHART: Main Boom

Lifting Capacities 5-section Boom 38.5 ft. - 155 ft. Full Outrigger Extension

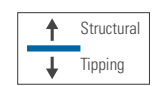
 23'-3" (7.07 m) (100%)

| Boom Length (ft.) | Boom Length 38.5 ft. | | | Boom Length 63 ft. (A) | | | Boom Length 74 ft. (B) | | | Boom Length 86 ft. (C) | | | Boom Length 97 ft. (D) | | |
|-------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|---|-------------------------|-------------------------|--|-------------------------|-------------------------|---|-------------------------|-------------------------|
| |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |  | CODE 1 Over Rear (lbs.) | CODE 3 Full 360° (lbs.) |
| 6 | 73.5 | 100,000 | 100,000 | | | | | | | | | | | | |
| 8 | 70.5 | 85,400 | 85,400 | | | | | | | | | | | | |
| 10 | 67 | 75,100 | 75,100 | 77 | 40,000 | 40,000 | | | | | | | | | |
| 12 | 64 | 67,100 | 67,100 | 75 | 40,000 | 40,000 | 78 | 37,700 | 37,700 | | | | | | |
| 15 | 58.8 | 57,700 | 57,700 | 72.5 | 40,000 | 40,000 | 75.5 | 36,340 | 36,340 | 78.5 | 31,000 | 31,000 | | | |
| 20 | 49 | 46,200 | 46,200 | 67.5 | 38,250 | 38,250 | 72 | 33,380 | 33,380 | 75 | 28,200 | 28,200 | 77.5 | 24,120 | 24,120 |
| 25 | 38 | 37,290 | 37,290 | 62.5 | 35,040 | 35,040 | 67.5 | 30,620 | 30,620 | 71.5 | 25,970 | 25,970 | 74.5 | 22,200 | 22,200 |
| 30 | 22.5 | 28,580 | 28,580 | 57 | 30,700 | 30,700 | 63 | 28,020 | 28,020 | 68 | 23,950 | 23,950 | 71 | 20,480 | 20,480 |
| 35 | | | | 51.5 | 25,340 | 25,140 | 58.5 | 25,580 | 25,470 | 64 | 22,080 | 22,080 | 68 | 18,670 | 18,670 |
| 40 | | | | 45 | 21,000 | 19,460 | 54 | 21,440 | 19,780 | 60.5 | 20,370 | 20,010 | 65 | 17,210 | 17,170 |
| 45 | | | | 38 | 17,940 | 15,470 | 48.5 | 18,200 | 15,780 | 56.5 | 18,380 | 16,010 | 61.5 | 15,920 | 15,920 |
| 50 | | | | 29.5 | 15,320 | 12,500 | 43 | 15,590 | 12,820 | 52 | 15,780 | 13,040 | 58 | 14,720 | 13,190 |
| 55 | | | | 17 | 12,420 | 10,180 | 37 | 13,440 | 10,530 | 47.5 | 13,640 | 10,760 | 54 | 13,620 | 10,900 |
| 60 | | | | | | | 29 | 11,640 | 8,700 | 42.5 | 11,850 | 8,940 | 50 | 11,980 | 9,090 |
| 65 | | | | | | | 19 | 10,030 | 7,200 | 37 | 10,330 | 7,460 | 46 | 10,460 | 7,610 |
| 70 | | | | | | | | | | 30.5 | 9,010 | 6,220 | 41.5 | 9,150 | 6,380 |
| 75 | | | | | | | | | | 22.5 | 7,860 | 5,170 | 36.5 | 8,020 | 5,340 |
| 80 | | | | | | | | | | 7.5 | 4,360 | 4,230 | 30.5 | 7,020 | 4,450 |
| 85 | | | | | | | | | | | | | 23.5 | 6,120 | 3,670 |
| 90 | | | | | | | | | | | | | 12 | 4,140 | 2,970 |
| SJ | 960 lbs. | | | 590 lbs. | | | 500 lbs. | | | 430 lbs. | | | 390 lbs. | | |
| EJ | 2,620 lbs. | | | 2,270 lbs. | | | 2,190 lbs. | | | 2,130 lbs. | | | 2,080 lbs. | | |
| | Boom Length 109 ft. (E) | | | Boom Length 120 ft. (F) | | | Boom Length 132 ft. (G) | | | Boom Length 143 ft. (H) | | | Boom Length 155 ft. (I) | | |
| 25 | 77 | 18,000 | 18,000 | 79 | 16,260 | 16,260 | | | | | | | | | |
| 30 | 74 | 17,000 | 17,000 | 76.5 | 15,280 | 15,280 | 78 | 13,500 | 13,500 | 79.5 | 11,500 | 11,500 | | | |
| 35 | 71.5 | 15,920 | 15,920 | 74 | 14,270 | 14,270 | 76 | 12,900 | 12,900 | 77.5 | 11,300 | 11,300 | 79 | 9,000 | 9,000 |
| 40 | 68.5 | 14,700 | 14,700 | 71.5 | 13,310 | 13,310 | 74 | 12,000 | 12,000 | 75.5 | 11,000 | 11,000 | 77 | 9,000 | 9,000 |
| 45 | 65.5 | 13,570 | 13,570 | 69 | 12,410 | 12,410 | 71.5 | 11,300 | 11,300 | 73.5 | 10,460 | 10,460 | 75.5 | 9,000 | 9,000 |
| 50 | 62.5 | 12,540 | 12,540 | 66 | 11,600 | 11,600 | 69 | 10,550 | 10,550 | 71.5 | 9,460 | 9,460 | 73.5 | 8,800 | 8,800 |
| 55 | 59.5 | 11,580 | 11,020 | 63.5 | 10,840 | 10,840 | 67 | 9,610 | 9,610 | 69.5 | 8,880 | 8,880 | 71.5 | 8,320 | 8,320 |
| 60 | 56 | 10,690 | 9,210 | 60.5 | 9,960 | 9,290 | 64.5 | 9,000 | 9,000 | 67.5 | 8,330 | 8,330 | 69.5 | 7,820 | 7,820 |
| 65 | 53 | 9,870 | 7,730 | 57.5 | 9,230 | 7,810 | 62 | 8,430 | 7,880 | 65 | 7,800 | 7,800 | 67.5 | 7,340 | 7,340 |
| 70 | 49 | 9,150 | 6,500 | 54.5 | 8,550 | 6,580 | 59 | 7,880 | 6,650 | 62.5 | 7,300 | 6,700 | 65.5 | 6,880 | 6,750 |
| 75 | 45.5 | 8,130 | 5,460 | 51.5 | 7,930 | 5,540 | 56.5 | 7,390 | 5,610 | 60.5 | 6,820 | 5,660 | 63.5 | 6,410 | 5,710 |
| 80 | 41.5 | 7,130 | 4,570 | 48 | 7,210 | 4,660 | 53.5 | 6,880 | 4,730 | 58 | 6,360 | 4,780 | 61.5 | 5,980 | 4,820 |
| 85 | 37 | 6,250 | 3,800 | 44.5 | 6,330 | 3,890 | 50.5 | 6,360 | 3,960 | 55.5 | 5,940 | 4,010 | 59 | 5,560 | 4,050 |
| 90 | 32 | 5,470 | 3,130 | 41 | 5,550 | 3,220 | 47.5 | 5,620 | 3,290 | 52.5 | 5,540 | 3,340 | 57 | 5,170 | 3,380 |
| 95 | 25.5 | 4,750 | 2,530 | 36.5 | 4,850 | 2,630 | 44.5 | 4,920 | 2,700 | 50 | 4,960 | 2,750 | 54.5 | 4,780 | 2,790 |
| 100 | 17 | 3,830 | 1,990 | 32 | 4,210 | 2,100 | 41 | 4,280 | 2,180 | 47 | 4,330 | 2,230 | 52 | 4,370 | 2,270 |
| 105 | | | | 26 | 3,630 | 1,620 | 37 | 3,710 | 1,710 | 44 | 3,760 | 1,760 | 49.5 | 3,800 | 1,800 |
| 110 | | | | 19 | 3,030 | 1,190 | 33 | 3,190 | 1,280 | 40.5 | 3,240 | 1,340 | 47 | 3,280 | 1,380 |
| 115 | | | | | | | 28 | 2,700 | 900 | 37 | 2,760 | 950 | 44 | 2,800 | 1,000 |
| 120 | | | | | | | 22 | 2,260 | | 33 | 2,320 | | 41 | 2,370 | |
| 125 | | | | | | | 12 | 860 | | 28.5 | 1,910 | | 37.5 | 1,960 | |
| 130 | | | | | | | | | | 23 | 1,530 | | 34 | 1,590 | |
| 135 | | | | | | | | | | 14.5 | 1,170 | | 29.5 | 1,240 | |
| SJ | 340 lbs. | | | 310 lbs. | | | 280 lbs. | | | 260 lbs. | | | 240 lbs. | | |
| EJ | 2,050 lbs. | | | 2,020 lbs. | | | 1,990 lbs. | | | 1,970 lbs. | | | 1,950 lbs. | | |

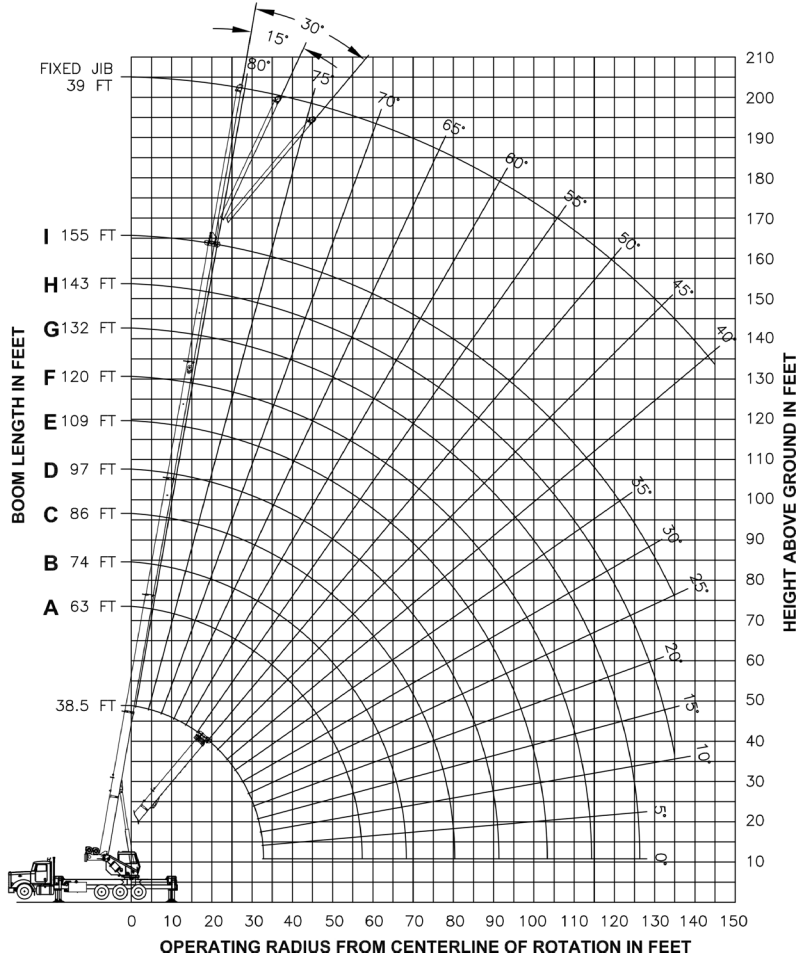
NOTES:

- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads based on crane on outriggers
- Loads below heavy line are based on tipping rating

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIBS - SJ
 = Stowed Jib, EJ= Erected Jib



50155HL BOOM DIAGRAM & JIB LOAD CAPACITIES



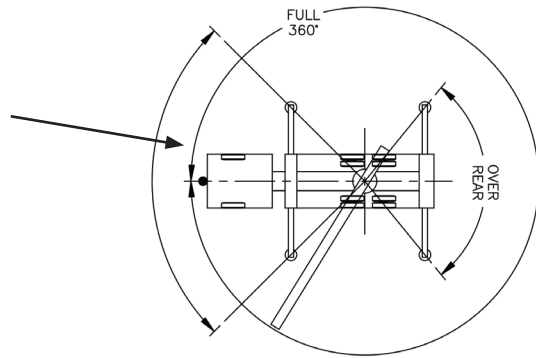
| 39 FT. FIXED JIB LOAD CAPACITIES | | | | | | | | | |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
| Boom Length (ft.) | 0° Offset | | 15° Offset | | | 30° Offset | | | |
| | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | Over rear (lbs.) | Full 360° (lbs.) | |
| 40 | 80 | 4,000 | | | | | | | |
| 45 | 78 | 4,000 | | | | | | | |
| 50 | 77.5 | 4,000 | 80 | 4,000 | 4,000 | | | | |
| 55 | 75.5 | 4,000 | 78 | 4,000 | 4,000 | | | | |
| 60 | 74 | 4,000 | 76.5 | 4,000 | 4,000 | 80 | 4,000 | 4,000 | |
| 65 | 72.5 | 4,000 | 75 | 4,000 | 4,000 | 78 | 4,000 | 4,000 | |
| 70 | 71 | 4,000 | 73.5 | 4,000 | 4,000 | 76 | 4,000 | 4,000 | |
| 75 | 69.5 | 4,000 | 72 | 4,000 | 4,000 | 74.5 | 3,880 | 3,880 | |
| 80 | 68 | 4,000 | 71 | 3,940 | 3,940 | 73 | 3,730 | 3,730 | |
| 85 | 66.5 | 3,860 | 69.5 | 3,780 | 3,780 | 71.5 | 3,570 | 3,570 | |
| 90 | 65 | 3,720 | 67.5 | 3,630 | 3,630 | 70 | 3,430 | 3,430 | |
| 95 | 63.5 | 3,430 | 66 | 3,480 | 3,480 | 68 | 3,290 | 3,290 | |
| 100 | 61.5 | 3,150 | 64.5 | 3,340 | 3,210 | 66.5 | 3,160 | 3,160 | |
| 105 | 60 | 2,880 | 62.5 | 3,180 | 2,700 | 65 | 3,030 | 3,030 | |
| 110 | 58 | 2,610 | 61 | 2,880 | 2,230 | 63 | 2,920 | 2,590 | |
| 115 | 56 | 2,360 | 59 | 2,610 | 1,810 | 61 | 2,800 | 2,140 | |
| 120 | 54.5 | 2,130 | 57 | 2,350 | 1,430 | 59 | 2,570 | 1,730 | |
| 125 | 52.5 | 1,900 | 55 | 2,110 | 1,080 | 57 | 2,290 | 1,350 | |
| 130 | 50.5 | 1,690 | 53 | 1,880 | | 55 | 2,040 | 1,000 | |
| 135 | 48.5 | 1,490 | 51 | 1,660 | | 53 | 1,810 | | |
| 140 | 46 | 1,230 | 48.5 | 1,460 | | 50.5 | 1,590 | | |
| 145 | 43.5 | 930 | 46.5 | 1,200 | | 48 | 1,380 | | |
| 150 | | | 44 | 890 | | 45.5 | 1,050 | | |

23'-3" (7.07 m) (100%)

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

AREA OF OPERATION

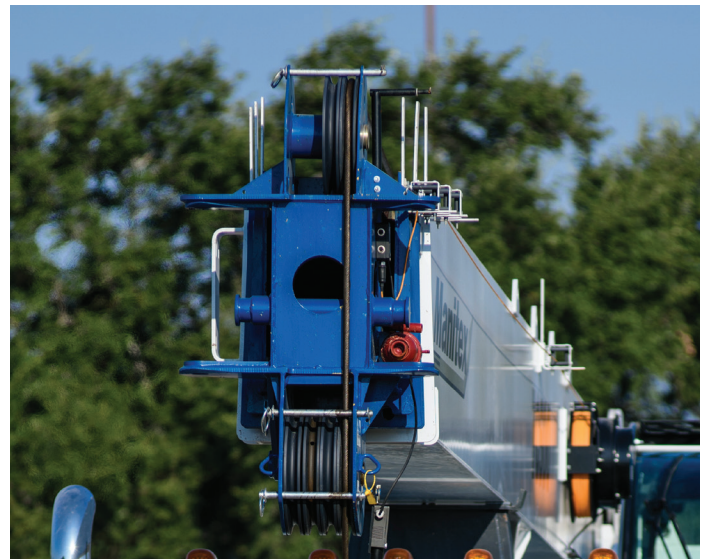
In order to take advantage of full 360° operation, the front bumper stabilizer must be set in accordance to the manual before working in this area.



Deductions from rated loads for load handling devices supplied by Manitex

| | |
|---------------------------|----------------------------------|
| Auxiliary block | 50 lbs. (22.7 kg) |
| Overhaul ball | See overhaul ball mfr. nameplate |
| Load blocks | See load block mfr. nameplate |
| Hose reel | 260 lbs. (117.9 kg) |
| Swing around jib (stowed) | See load chart |

WARNING: Lifting off the main boom point while the jib is erected is not intended nor approved.



REEVING DIAGRAM

| ALLOWABLE LINE PULL | | | | | | | | | | WARNING |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| 1 PART LINE | 2 PART LINE | 3 PART LINE | 4 PART LINE | 5 PART LINE | 6 PART LINE | 7 PART LINE | 8 PART LINE | 9 PART LINE | 10 PART LINE | |
| | | | | | | | | | | <p>ANTI-TWO-BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE.</p> <p>REFER TO THE OWNER'S MANUAL.</p> <p>KEEP AT LEAST 3 WRAPS OF LOAD LINE ON THE DRUM AT ALL TIMES.</p> |
| 10000 LBS | 20000 LBS | 30000 LBS | 40000 LBS | 50000 LBS | 60000 LBS | 70000 LBS | 80000 LBS | 90000 LBS | 100000 LBS | |

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

TECHNICAL DESCRIPTIONS

Boom



Boom lengths: Proportional boom

- 4-section 96 ft. (29 m)
- 4-section 110 ft. (33,5 m)
- 4-section 128 ft. (39 m)
- 5-section 155 ft. (47 m)

4-Sheave load quick reeve boom point with 2 idler reeve boom points.

Self lubricating slider pads



Boom max. tip height 5096: 105.2 ft. (32,1 m)

Boom max. tip height 50110: 119 ft. (36,3 m)

Boom max. tip height 50128: 131.9 ft (40,2 m)

Boom max. tip height 50155: 163.4 ft (49,8 m)



Boom angle (min/max): -6° / 80°

Rotation



Ball-bearing swing circle with external gear Double-reduction planetary gearbox driven by hydraulic motor



Slewing brake: Spring-applied pressure released automatic brake and Free Swing and Non-Free Swing selection from the operator's keypad.



Slewing speed: 1.5 - 2 rpm. (nominal)
Boom rotation: 360° continuous

Outriggers



Outriggers: Out-and-down style

Outrigger monitoring system (for verification only)

Outrigger motion alarm

Full extension

- Front and rear: 23.3 ft. (7,1 m)

Middle extension

- Front and rear: 15.4 ft. (4,7 m)

Full retraction

- Front and rear: 7.3 ft. (2,2 m)



ROC Solid - Radio operated handheld controller for outrigger, winches and FBS setup
Crane is shipped with the boom radio remote ready.

Operator aids



Externally routed A2B cable. Color graphic display with LMI crane function cut-offs for overload protection, event recorder and WADS-Work Definition System.
HDRI - Hoist Drum Rotation Indicator

Hoist, Rope and Hook



Maximum theoretical line speed: 453 fpm (138 mpm)



Maximum theoretical bottom-layer line pull: 13,050 lbs. (5,919 kg)



Main winch cable diameter: 5/8 in. (15,9 mm) rotation resistant



Line length: 5096 & 50110 - 400 ft. (122 m)
Line length: 50128 & 50155 - 500 ft. (152 m)



Main winch: Bent axis 2-speed hydraulic motor (activated electrically)

Third Wrap Limiter on both Main and Auxiliary Winch



Hook and Ball: 7T (6,4 mt) capacity hook with heavy-duty swivel and weight is provided for single line operation

Hydraulics



8-bolt direct mounted PTO and SAE C output (factory mounted units only)

1-Section Variable Displacement Piston Pump, SAE C input

Piggy back Fixed Gear Pump

Hydraulic Reservoir capacity: 115 Gallon-155 Gallon
Pump Sections @ 2000 RPM with 100 PSI

- Variable Displacement Pump: 77 GPM (291 lpm)
- Fixed Displacement Gear Pump: 12 GPM (45 lpm)

Tiltable Cab/Cab Controls



Standard features:

Curved glass, 0° to 20° cab tilt, Sliding door, heated cloth seat, 8 seat adjustments, lumbar support, reclining and adjustable head rest, sliding windows, rear pop out window, top hinged hatch, with guard, front and top windshield wipers, heater, air conditioning, 12 volt DC outlet, USB ports, engine monitoring system, E-coated cab (10 year rust warranty)



Controls:

PLC crane controller, CANBUS communication, J1939 truck engine communication, electric hand and foot throttle, twin dual axis joysticks, electric/hydraulic valve actuation, electronic sensor monitoring, Hirschmann/PAT or 3B6 LMI system available, wired ATB and wired wind speed sensors, telematics, GPS monitoring, remote diagnostic capability, Work Area Definition (WADs)

OPTIONS

Boom

Jibs

- 5096, 50110, 50128
 - 2-section telescopic jib: 32 ft. (9,7 m) to 49 ft. (14,9 m)
- 50155S
 - 1-section fixed jib: 39 ft. (11,8 m)

Maximum Boom Length with Jib



- 5096
 - Max boom length with extension: 144.5 ft. (44 m)
- 50110 & 50110HL
 - Max boom length with extension: 159 ft. (48,5m)
- 50128 & 50128HL
 - Max boom length with extension: 177 ft. (53,9m)
- 50155 & 50155HL
 - Max boom length with extension: 194 ft. (59,1m)

Maximum Boom Length with Minimum Extension



- 5096
 - Max boom length with extension retracted: 127.5 ft. (38,9m)
- 50110 & 50110HL
 - Max boom length with extension retracted: 142 ft. (43,2m)
- 50128 & 50128HL
 - Max boom length with extension retracted: 160 ft. (48,8m)
- 50155 & 50155HL
 - Max boom length with extension retracted: 155 ft. (47,2)

Boom

Maximum Tip Height with Maximum Extension



- 5096
 - Max tip height with extension: 153.3 ft. (46,7 m)
 - Max tip height with extension retracted: 136.5 ft. (41,6 m)
- 50110 & 50110HL
 - Max tip height with extension: 167.1 ft. (50,9 m)
 - Max tip height with extension retracted: 150.3 ft. (45,8 m)
- 50128 & 50128HL
 - Max tip height with extension: 184.8 ft. (56,3 m)
 - Max tip height with extension retracted: 168.0 ft. (51,2 m)
- 50155 & 50155HL
 - Max tip height w/ext = 202.4 ft. (61,7 m)
 - Max tip height w/ ext retracted: No telescopic jib for 50155

Hoist, Rope and Hook

Rooster sheave
Wireline options available
2nd overhaul ball available



Auxiliary lower sheave block for 2-9 part lines
Load blocks 1-7, 4-8, 2-8, 9-10 part lines

Hydraulics



Optional Hydraulic Hose Reel for accessories- boom mounted
Optional Front Bumper Stabilizer

Auxiliary Winch



Auxiliary Winch Bent axis 2-speed hydraulic motor (activated electrically)
Third Wrap Limiter on both Main and Auxiliary Winch

OPTIONS

NOTES

Cab



- Video camera (1 or 2)
- Cab weather band radio system
- Wired wind speed indicator
- Cab Step Light
- Perimeter Lighting
- Strobe Light
- Cab Go-light

Operator Aids



- 4-function radio remote crane control system with joy sticks (crane is radio remote ready)
 - 900 Mhz
 - 433 Mhz
- A92.2 Aerial Lift Manbasket Dual Rating
- Wired Wind Speed Sensor

2-person Basket



- Consult Manitex for specific application and rating
 - 2-person gravity level basket
 - 2-person rotating steel basket
 - 2-person quick attach rotating basket

Tool Boxes & Platforms

Tool Boxes

- 24 " L x 18" w x 18" H - Steel (610 mm L x 457 mm W x 457 mm H)
- 48 " L X 24" W x 24" H - Aluminum (1219 mm L x 610 mm W x 610 mm H)
- 48 " L X 24" W x 24" H - Aluminum Top MTD-Swing Door (1219 mm L x 610 mm W x 610 mm H)

Platforms

- Wide Platform Option 102"

Manitex



TC500.1

50-ton (45, 4 mt) TELESCOPIC CRANE
TC500 SERIES PRODUCT GUIDE

UPTime

UPTime is the Manitex commitment to complete support of thousands of units working every day.

MANITEX

3000 South Austin Avenue
Georgetown, Texas 78626

1-877-314-3390 | www.Manitex.com

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