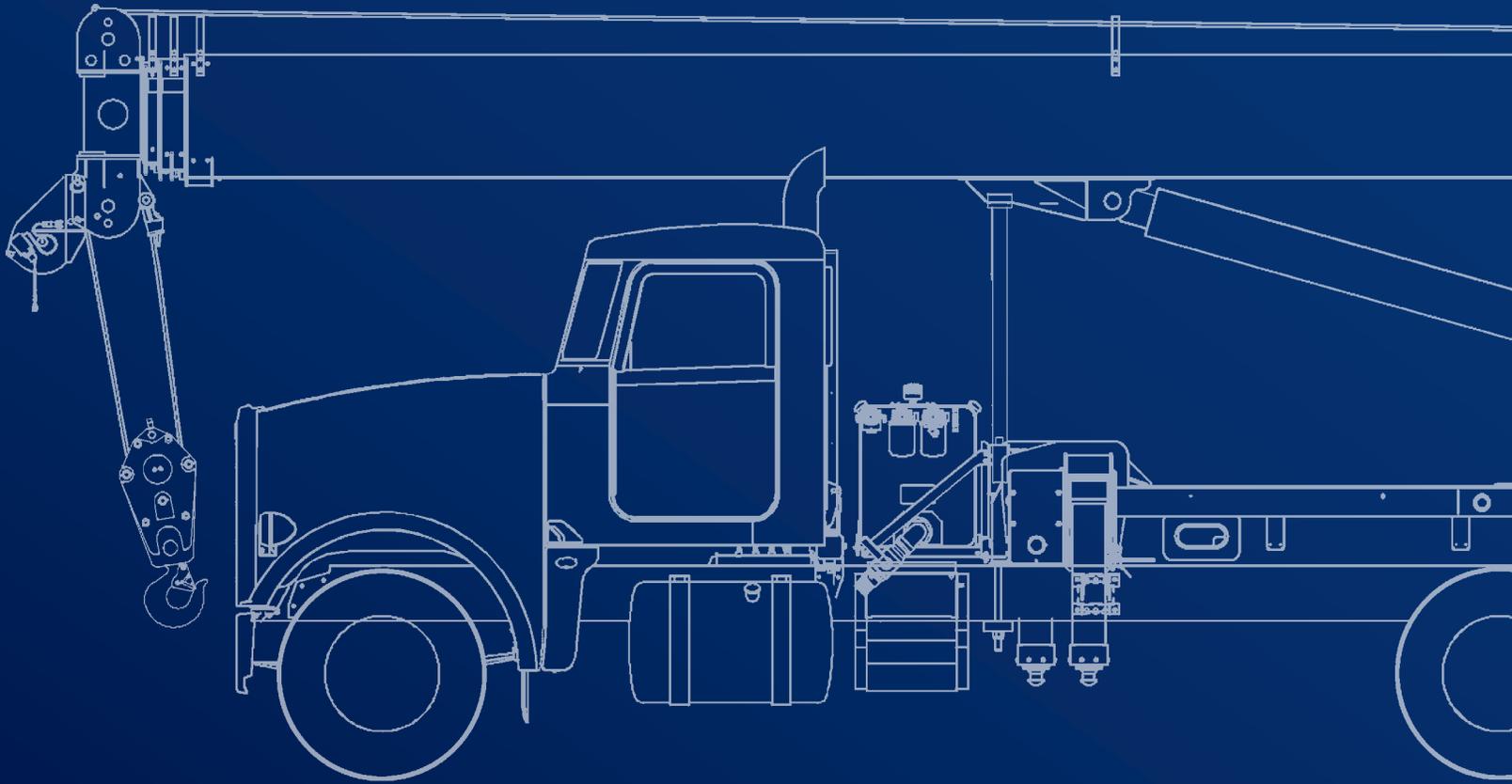


# TC 500.1

## SERIES PRODUCT GUIDE

50 TON (45 MT) TELESCOPIC CRANE





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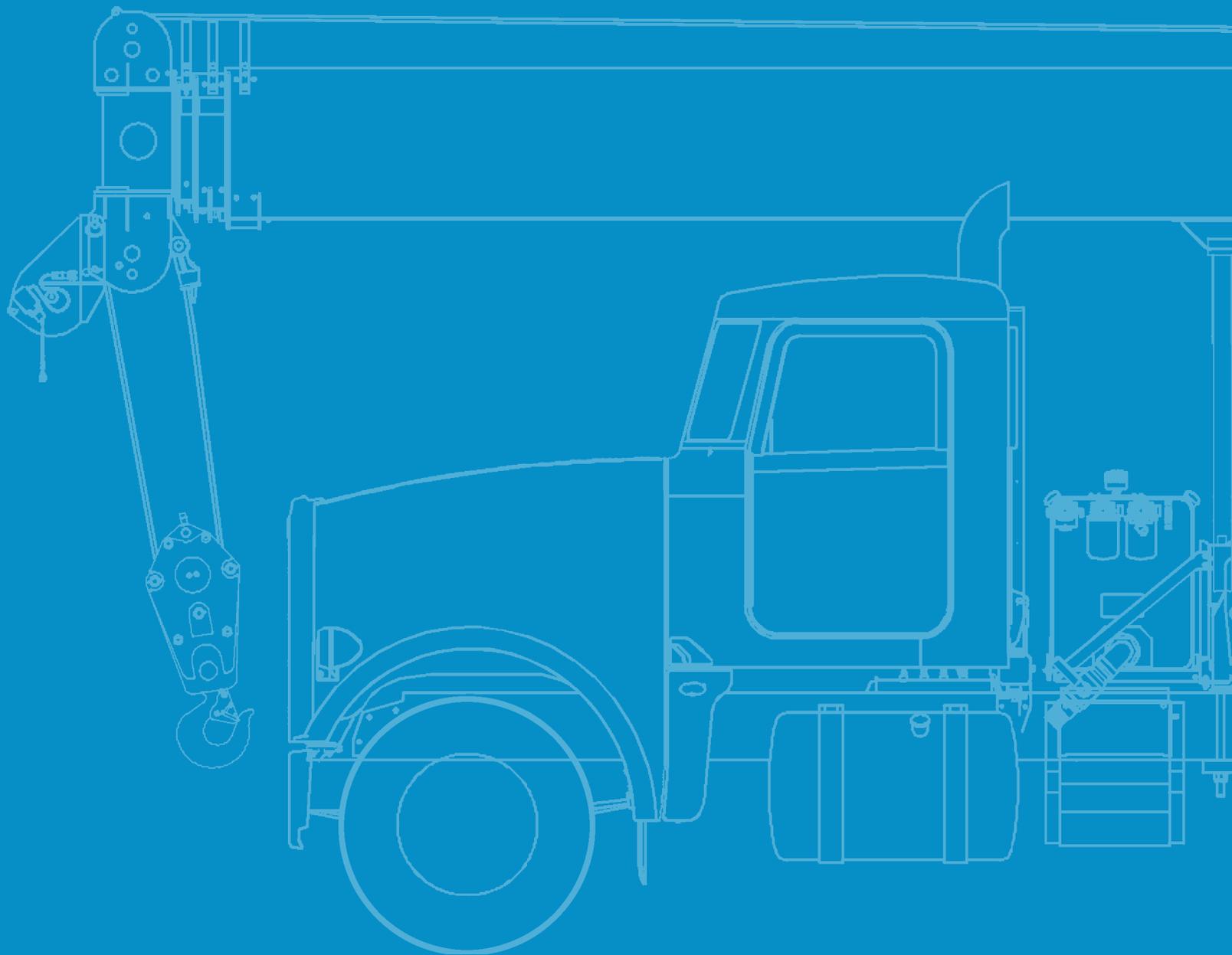
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# Key

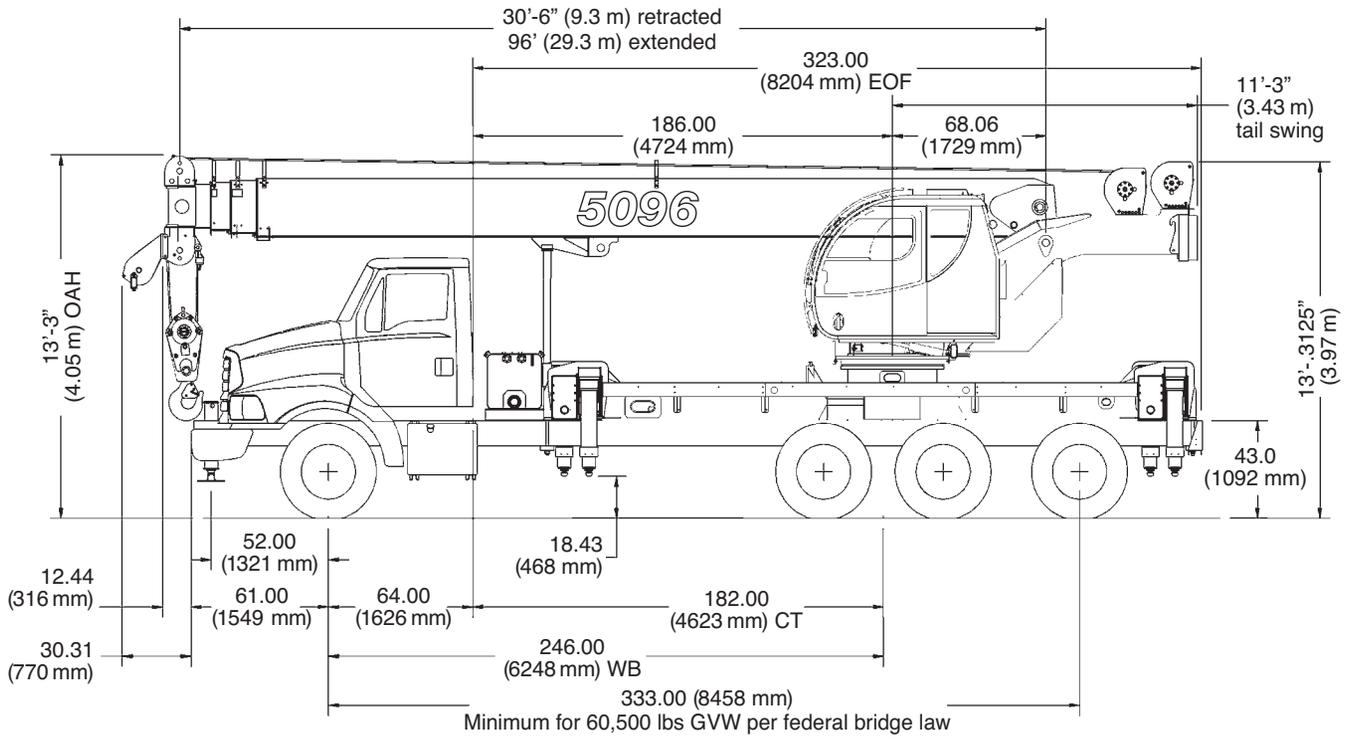
|   |   |   |                                       |
|---|---|---|---------------------------------------|
|    | Operator aids   |    | Radio remote control                  |
|    | Cab   |    | Hook block                            |
|    | Heating / Air conditioning                                  |    | Distance from hook to head sheave pin |
|    | Controls  |    | Hook and ball                         |
|    | Hoist speed   |    | Hydraulics                            |
|    | 1 - Main hoist<br>2 - Auxiliary winch<br>3 - Recovery winch |    | Boom elevation angle                  |
|    | Rope length   |    | Max. boom length with extension       |
|  | Rope – Standard / optional                                  |  | Boom with extension retracted         |
|  | Rope diameter   |  | Boom angle                            |
|  | Permissible line pull                                       |  | Telescoping mode                      |
|  | Maximum line pull   |  | Working radius                        |
|  | Slewing / Allowable slewing range                           |  | Boom length                           |
|  | Slewing gears   |  | Hydraulic actuated boom               |
|  | Slewing brake   |  | Full power mechanical synchronized    |
|  | Outriggers / Lifting on outriggers                          |  | Boom head / Hook block dimension      |
|  | 2-person man basket   |  | Main boom with auxiliary head         |
|  | Counterweight   |  | Tip height                            |

TC500.1

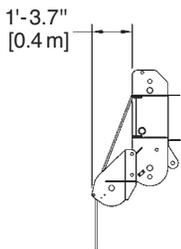


# 5096 Chassis Data

## Dimensions



## Auxiliary Sheave Head



## Crane Weight

| Model             | 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)       |

## Chassis Data

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

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

## Truck Axle Weight

| Model                            | 5096                  |
|----------------------------------|-----------------------|
| Min. truck axle weight – Front** | 9,100 lbs (4,127 kg)  |
| Min. truck axle weight – Rear**  | 11,150 lbs (5,057 kg) |
| Nominal frame width              | 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.

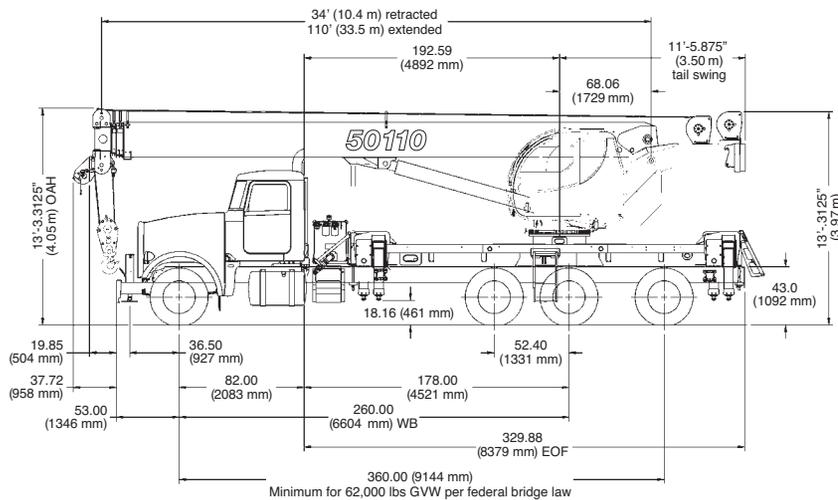
Notes: Additional axles required for federal bridge legal configuration – consult Tadano. Tadano highly recommends the addition of a front stabilizer and it may be required on some installations – consult Tadano.

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

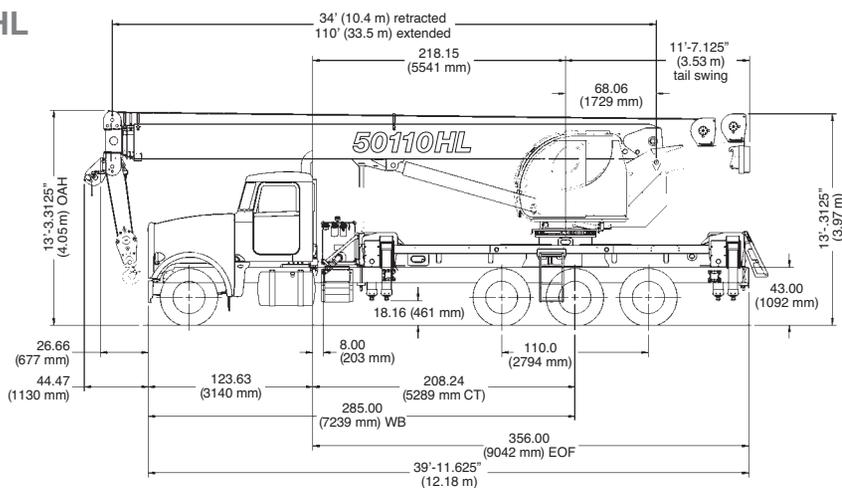
# 50110 and 50110HL Chassis Data

## Dimensions

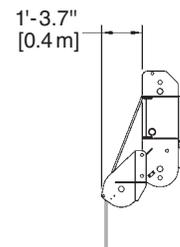
### 50110



### 50110HL



### Auxiliary Sheave Head



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

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

## Chassis Data

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

## Truck Axle Weight

|                                  |                       |                       |
|----------------------------------|-----------------------|-----------------------|
| Min. truck axle weight – Front** | 9,000 lbs (4,173 kg)  | 10,700 lbs (4,853 kg) |
| Min. truck axle weight – Rear**  | 10,600 lbs (4,808 kg) | 15,200 lbs (6,894 kg) |
| Nominal frame width              | 34 in. (864 mm)       | 34 in. (864 mm)       |

## Crane Weight

|                    |                        |                        |
|--------------------|------------------------|------------------------|
| 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)       |

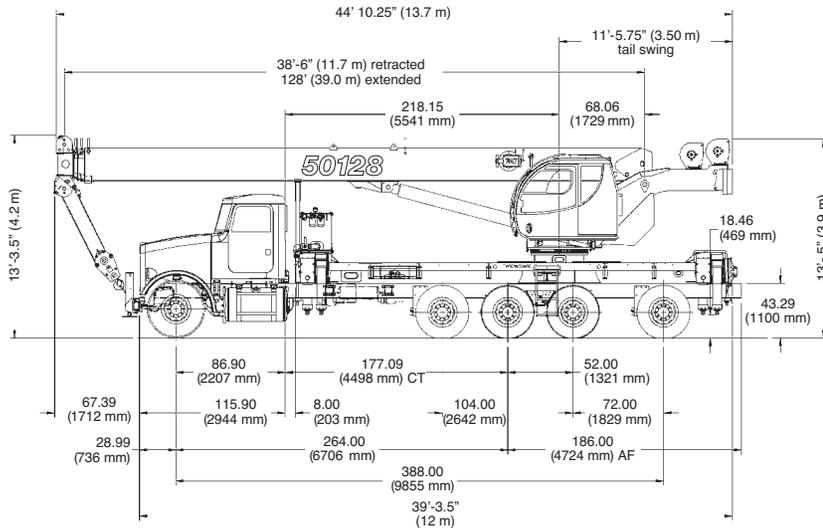
Notes: Additional axles required for federal bridge legal configuration – consult Tadano. Tadano highly recommends the addition of a front stabilizer and it may be required on some installations – consult Tadano.

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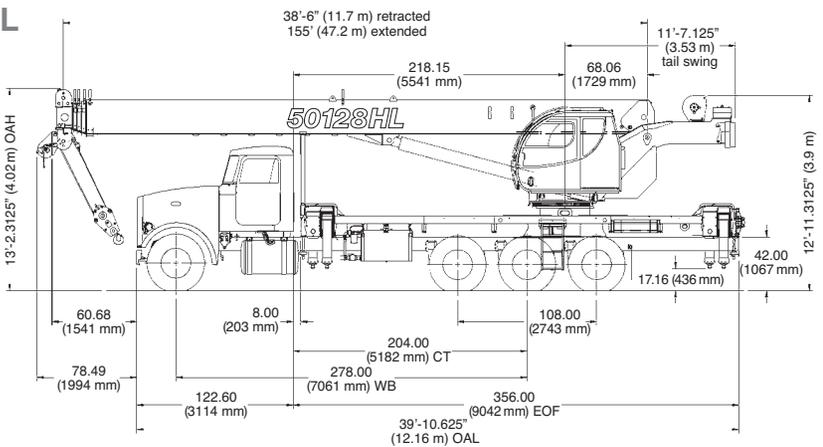
# 50128 and 50128HL Chassis Data

## Dimensions

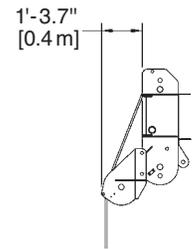
### 50128



### 50128HL



## Auxiliary Sheave Head



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

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

## Chassis Data

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

## Truck Axle Weight

|                                  |                       |                       |
|----------------------------------|-----------------------|-----------------------|
| Min. truck axle weight – Front** | 9,100 lbs (4,127 kg)  | 11,100 lbs (5,034 kg) |
| Min. truck axle weight – Rear**  | 13,985 lbs (6,344 kg) | 12,500 lbs (5,670 kg) |
| Nominal frame width              | 34 in. (864 mm)       | 34 in. (864 mm)       |

## Crane Weight

|                    |                        |                        |
|--------------------|------------------------|------------------------|
| 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)       |

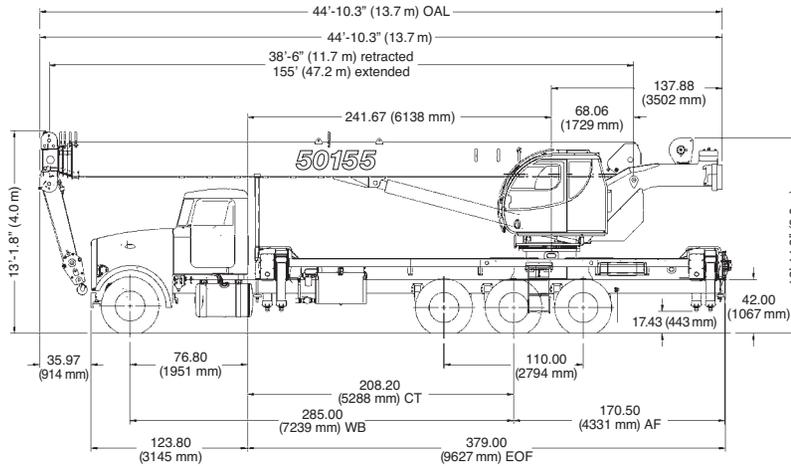
Notes: Additional axles required for federal bridge legal configuration – consult Tadano. Tadano highly recommends the addition of a front stabilizer and it may be required on some installations – consult Tadano.

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

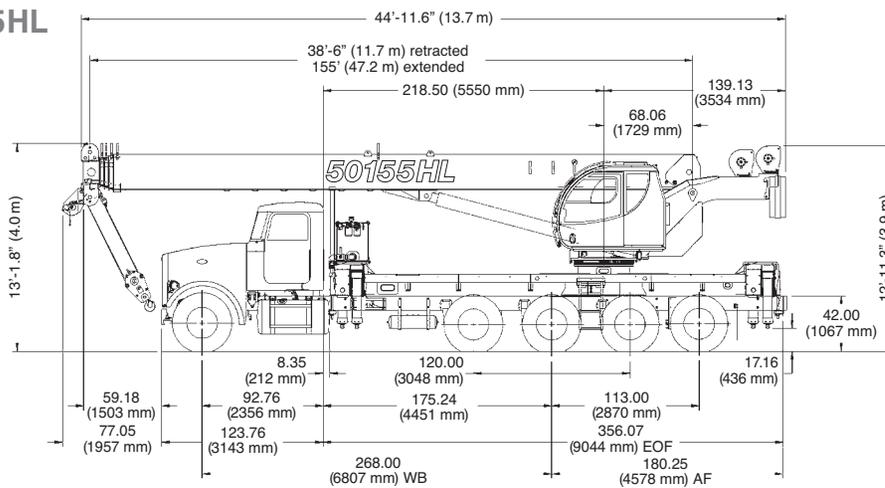
# 50155 and 50155HL Chassis Data

## Dimensions

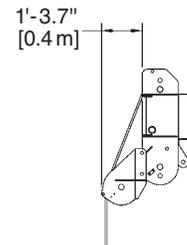
### 50155



### 50155HL



### Auxiliary Sheave Head



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

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

## Chassis Data

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

## Truck Axle Weight

|                                  |                       |                       |
|----------------------------------|-----------------------|-----------------------|
| Min. truck axle weight – Front** | 10,750 lbs (4,876 kg) | 9,500 lbs (4,309 kg)  |
| Min. truck axle weight – Rear**  | 12,300 lbs (5,579 kg) | 13,400 lbs (6,078 kg) |
| Nominal frame width              | 34 in. (864 mm)       | 34 in. (864 mm)       |

## Crane Weight

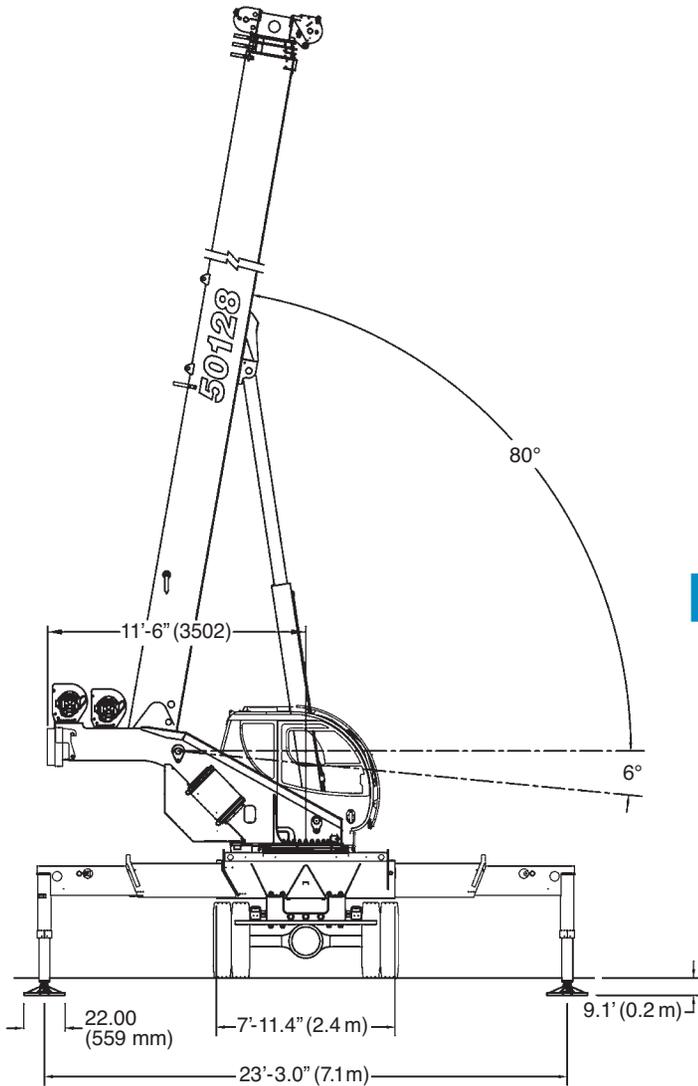
|                    |                        |                        |
|--------------------|------------------------|------------------------|
| Crane              | 39,175 lbs (17,796 kg) | 45,605 lbs (20,686 kg) |
| Jib fixed          | 1,510 lbs (685 kg)     | 1,510 lbs (685 kg)     |
| Jib telescopic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

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

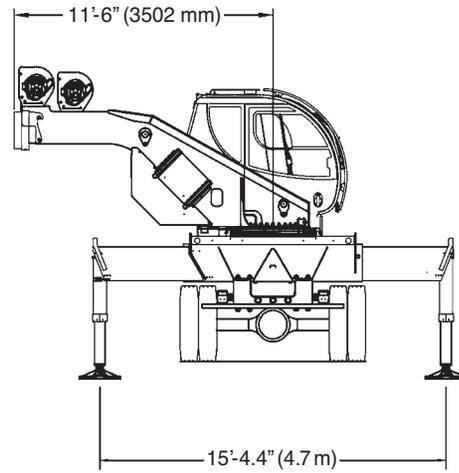
Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

# Outrigger Extension

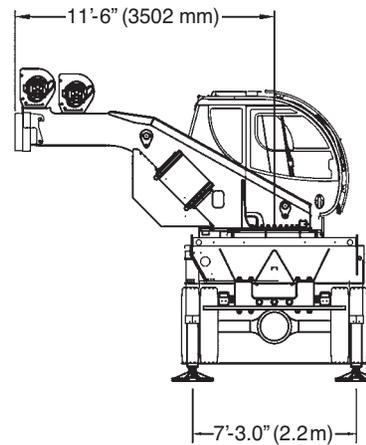
## Full Extension



## Middle Extension



## Full Retraction



## Sub Frame

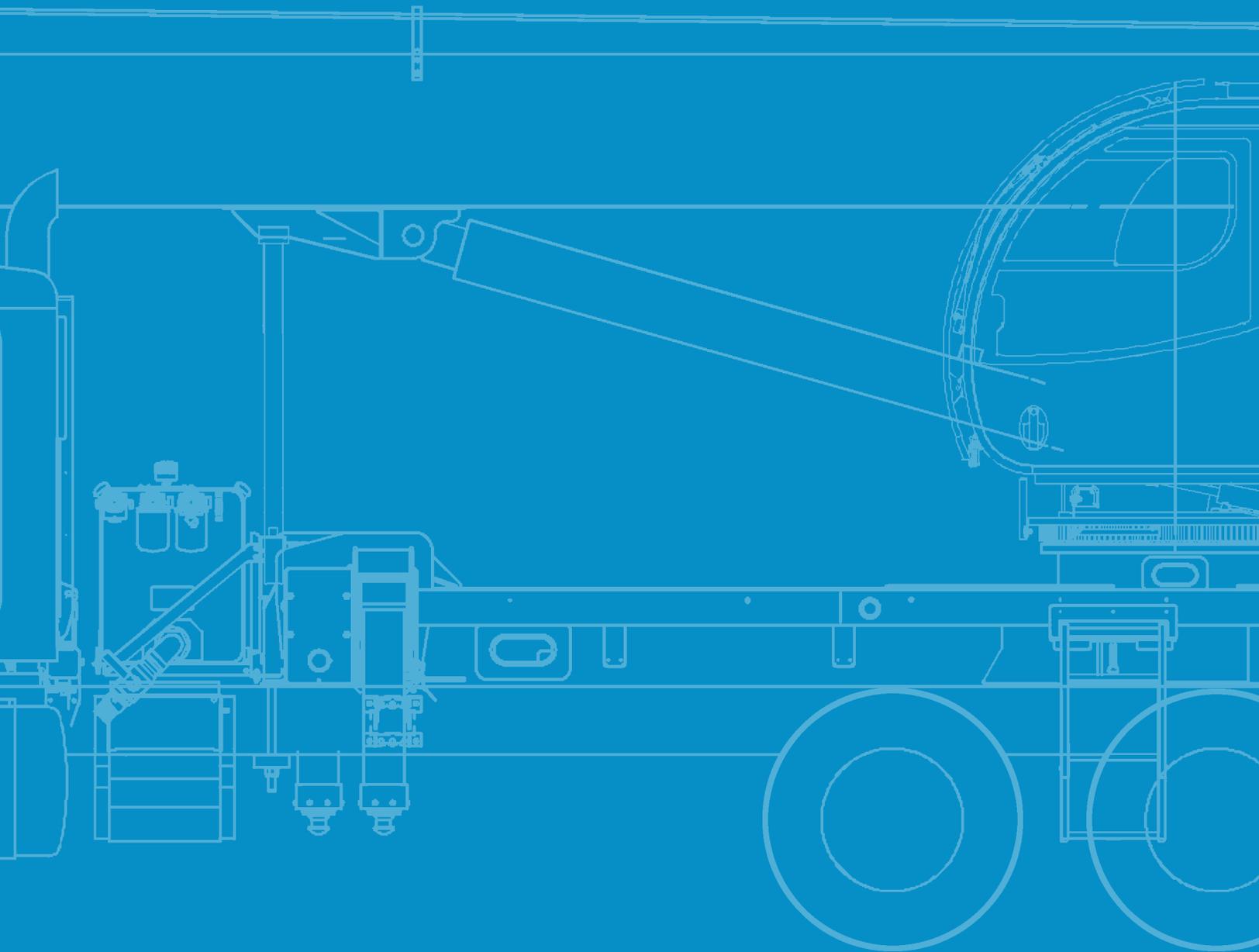
- Pedestal sub-frame and stabilizers are mounted to chassis by threaded rods and clamp plates
- Sub-frame: Torsion resistant, rigid 4-plate design mounted under crane full length of truck frame
- Rear underride protection: Standard on factory mounted cranes

## 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.

TC500.1



# 5096 Load Chart

# Main Boom

| 30.5 ft – 96.0 ft – 4 section |    |           |           | 23'-3" (7.07 m) |           |           |             | Fully Extended (100 %) |           |             |           |           |             |           |           |
|-------------------------------|----|-----------|-----------|-----------------|-----------|-----------|-------------|------------------------|-----------|-------------|-----------|-----------|-------------|-----------|-----------|
| 30.5 ft                       |    |           |           | 48.0 ft (A)     |           |           | 64.0 ft (B) |                        |           | 80.0 ft (C) |           |           | 96.0 ft (D) |           |           |
| ft                            | °  | Over rear | Full 360° | °               | Over rear | Full 360° | °           | Over rear              | Full 360° | °           | Over rear | Full 360° | °           | Over rear | Full 360° |
|                               |    | lbs       | lbs       |                 | lbs       | lbs       |             | lbs                    | lbs       |             | lbs       | lbs       |             | lbs       | 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

|            |           |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|-----------|
| <b>SJ</b>  | 1,080 lbs | 690 lbs   | 520 lbs   | 410 lbs   | 350 lbs   |
| <b>EJR</b> | 3,050 lbs | 2,680 lbs | 2,520 lbs | 2,420 lbs | 2,360 lbs |
| <b>EJE</b> | 3,470 lbs | 2,590 lbs | 2,720 lbs | 2,580 lbs | 2,490 lbs |

**SJ** = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended

|   |            |
|---|------------|
| ↑ | Structural |
| ↓ | Stability  |

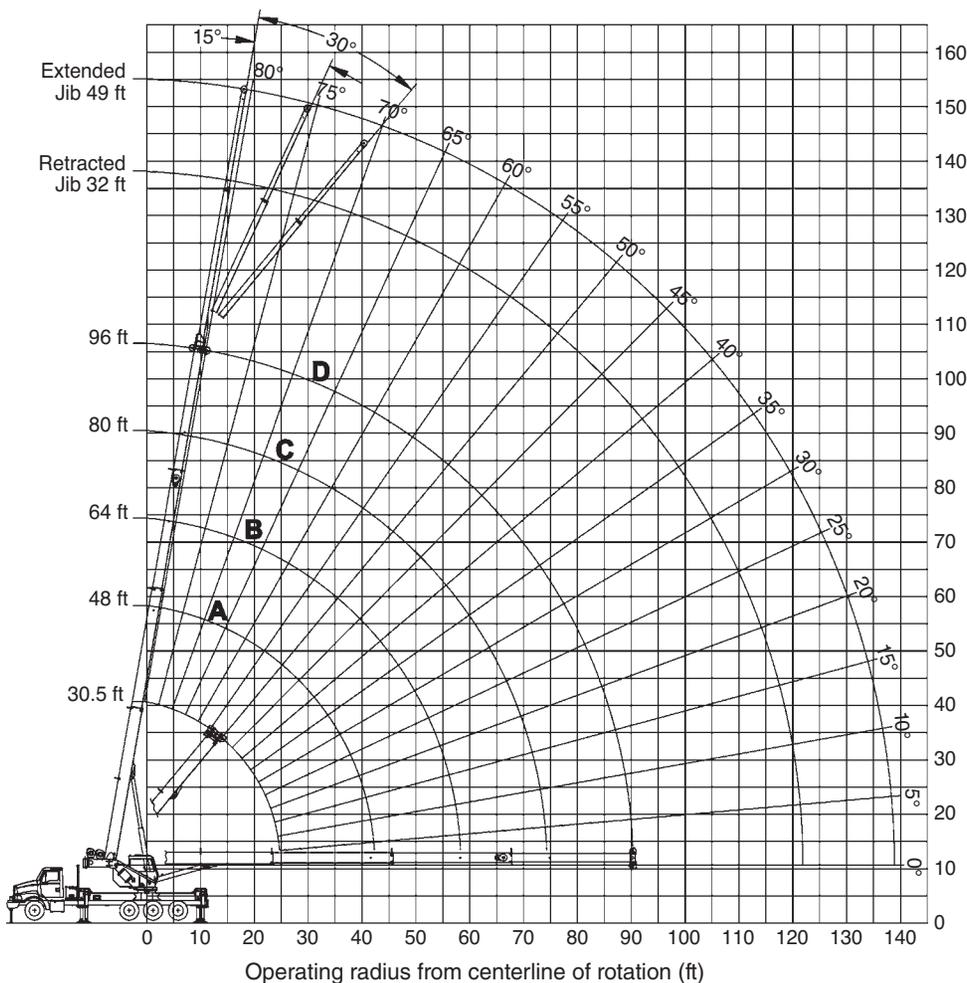
### NOTES:

- 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 stability rating

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

# 5096 Boom Diagram and Jib Load Capacities

# Main Boom Jib



| 23'-3" (7.07 m)                     |    |               |               |            |               |               |            |               |               | Fully Extended (100%)              |    |               |               |            |               |               |
|-------------------------------------|----|---------------|---------------|------------|---------------|---------------|------------|---------------|---------------|------------------------------------|----|---------------|---------------|------------|---------------|---------------|
| 32 ft retracted jib load capacities |    |               |               |            |               |               |            |               |               | 49 ft extended jib load capacities |    |               |               |            |               |               |
| 0° Offset                           |    |               |               | 15° Offset |               |               | 30° Offset |               |               | 0° Offset                          |    | 15° Offset    |               | 30° Offset |               |               |
| ft                                  | °  | Over rear lbs | Full 360° lbs | °          | Over rear lbs | Full 360° lbs | °          | Over rear lbs | Full 360° lbs | ft                                 | °  | Over rear lbs | Full 360° lbs | °          | Over rear lbs | Full 360° lbs |
| 35                                  | 75 | 8,500         | 8,500         | -          | -             | -             | -          | -             | -             | 40                                 | 75 | 5,600         | 5,600         | -          | -             | -             |
| 40                                  | 73 | 8,500         | 8,500         | 76         | 7,600         | 7,600         | -          | -             | -             | 45                                 | 73 | 5,600         | 5,600         | 77         | 4,530         | 4,530         |
| 45                                  | 71 | 8,320         | 8,320         | 74         | 7,600         | 7,600         | 76         | 5,900         | 5,900         | 50                                 | 71 | 5,600         | 5,600         | 75         | 4,530         | 4,530         |
| 50                                  | 68 | 7,790         | 7,790         | 72         | 7,140         | 7,140         | 74         | 5,900         | 5,900         | 55                                 | 69 | 5,600         | 5,600         | 73         | 4,300         | 4,300         |
| 55                                  | 66 | 7,290         | 7,290         | 69         | 6,700         | 6,700         | 72         | 5,700         | 5,700         | 60                                 | 67 | 5,300         | 5,300         | 71         | 4,080         | 4,080         |
| 60                                  | 63 | 6,830         | 6,830         | 66         | 6,280         | 6,280         | 69         | 5,520         | 5,520         | 65                                 | 65 | 4,960         | 4,960         | 69         | 3,900         | 3,900         |
| 65                                  | 61 | 6,380         | 6,380         | 64         | 5,900         | 5,900         | 66         | 5,350         | 5,350         | 70                                 | 63 | 4,670         | 4,670         | 67         | 3,710         | 3,710         |
| 70                                  | 58 | 5,980         | 5,650         | 61         | 5,500         | 5,500         | 63         | 5,200         | 5,200         | 75                                 | 61 | 4,400         | 4,400         | 65         | 3,550         | 3,550         |
| 75                                  | 55 | 5,610         | 4,850         | 58         | 5,240         | 5,200         | 60         | 5,000         | 5,000         | 80                                 | 58 | 4,160         | 4,160         | 62         | 3,410         | 3,410         |
| 80                                  | 52 | 5,270         | 4,180         | 55         | 4,960         | 4,480         | 57         | 4,760         | 4,720         | 85                                 | 55 | 3,940         | 3,940         | 60         | 3,270         | 3,270         |
| 85                                  | 49 | 4,970         | 3,590         | 52         | 4,700         | 3,860         | 54         | 4,540         | 4,060         | 90                                 | 53 | 3,730         | 3,670         | 57         | 3,150         | 3,150         |
| 90                                  | 46 | 4,410         | 3,080         | 49         | 4,460         | 3,310         | 51         | 4,330         | 3,480         | 95                                 | 50 | 3,550         | 3,210         | 54         | 3,030         | 3,030         |
| 95                                  | 42 | 3,890         | 2,630         | 45         | 4,080         | 2,830         | 47         | 4,150         | 2,970         | 100                                | 47 | 3,380         | 2,800         | 51         | 2,930         | 2,930         |
| 100                                 | 38 | 3,420         | 2,220         | 41         | 3,590         | 2,400         | 43         | 3,700         | 2,510         | 105                                | 44 | 3,230         | 2,440         | 48         | 2,830         | 2,710         |
| 105                                 | 34 | 3,010         | 1,870         | 37         | 3,150         | 2,010         | 38         | 3,220         | 2,090         | 110                                | 41 | 3,090         | 2,110         | 45         | 2,750         | 2,350         |
| 110                                 | 29 | 2,630         | 1,540         | 32         | 2,740         | 1,650         | 32         | 2,780         | 1,700         | 115                                | 38 | 2,850         | 1,820         | 42         | 2,670         | 2,030         |
| 115                                 | 23 | 2,290         | 1,250         | 25         | 2,360         | 1,320         | 24         | 2,360         | 1,320         | 120                                | 34 | 2,540         | 1,550         | 38         | 2,600         | 1,730         |
| 120                                 | 14 | 1,980         | 980           | 14         | 2,000         | 1,000         | -          | -             | -             | 125                                | 30 | 2,260         | 1,310         | 33         | 2,400         | 1,450         |
|                                     |    |               |               |            |               |               |            |               |               | 130                                | 25 | 1,990         | 1,080         | 28         | 2,100         | 1,180         |
|                                     |    |               |               |            |               |               |            |               |               | 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

| 34.0 ft – 110.0 ft – 4 section |      |           |         | 23'-3" (7.07 m) |        |           |             | Fully Extended (100 %) |           |             |        |           |             |        |           |
|--------------------------------|------|-----------|---------|-----------------|--------|-----------|-------------|------------------------|-----------|-------------|--------|-----------|-------------|--------|-----------|
| 34.0 ft                        |      |           |         | 42.0 ft (A)     |        |           | 51.0 ft (B) |                        |           | 59.0 ft (C) |        |           | 68.0 ft (D) |        |           |
| Over rear                      |      | Full 360° |         | Over rear       |        | Full 360° | Over rear   |                        | Full 360° | Over rear   |        | Full 360° | Over rear   |        | Full 360° |
| ft                             | °    | lbs       | lbs     | °               | lbs    | lbs       | °           | lbs                    | lbs       | °           | lbs    | lbs       | °           | lbs    | 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

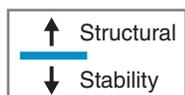
|            |           |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|-----------|
| <b>SJ</b>  | 1,150 lbs | 930 lbs   | 770 lbs   | 670 lbs   | 580 lbs   |
| <b>EJR</b> | 2,940 lbs | 2,770 lbs | 2,640 lbs | 2,560 lbs | 2,490 lbs |
|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

| 76.0 ft (E) |      |           |        | 85.0 ft (F) |        |           | 93.0 ft (G) |        |           | 102.0 ft (H) |        |           | 110.0 ft (I) |        |           |
|-------------|------|-----------|--------|-------------|--------|-----------|-------------|--------|-----------|--------------|--------|-----------|--------------|--------|-----------|
| Over rear   |      | Full 360° |        | Over rear   |        | Full 360° | Over rear   |        | Full 360° | Over rear    |        | Full 360° | Over rear    |        | Full 360° |
| ft          | °    | lbs       | lbs    | °           | lbs    | lbs       | °           | lbs    | lbs       | °            | lbs    | lbs       | °            | lbs    | 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           | 3,930  | 2,450     |
| 100         | -    | -         | -      | -           | -      | -         | -           | -      | -         | -            | -      | -         | 19           | 3,440  | 2,040     |

### Deductions from main boom capacities for stowed jibs

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

**SJ** = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended

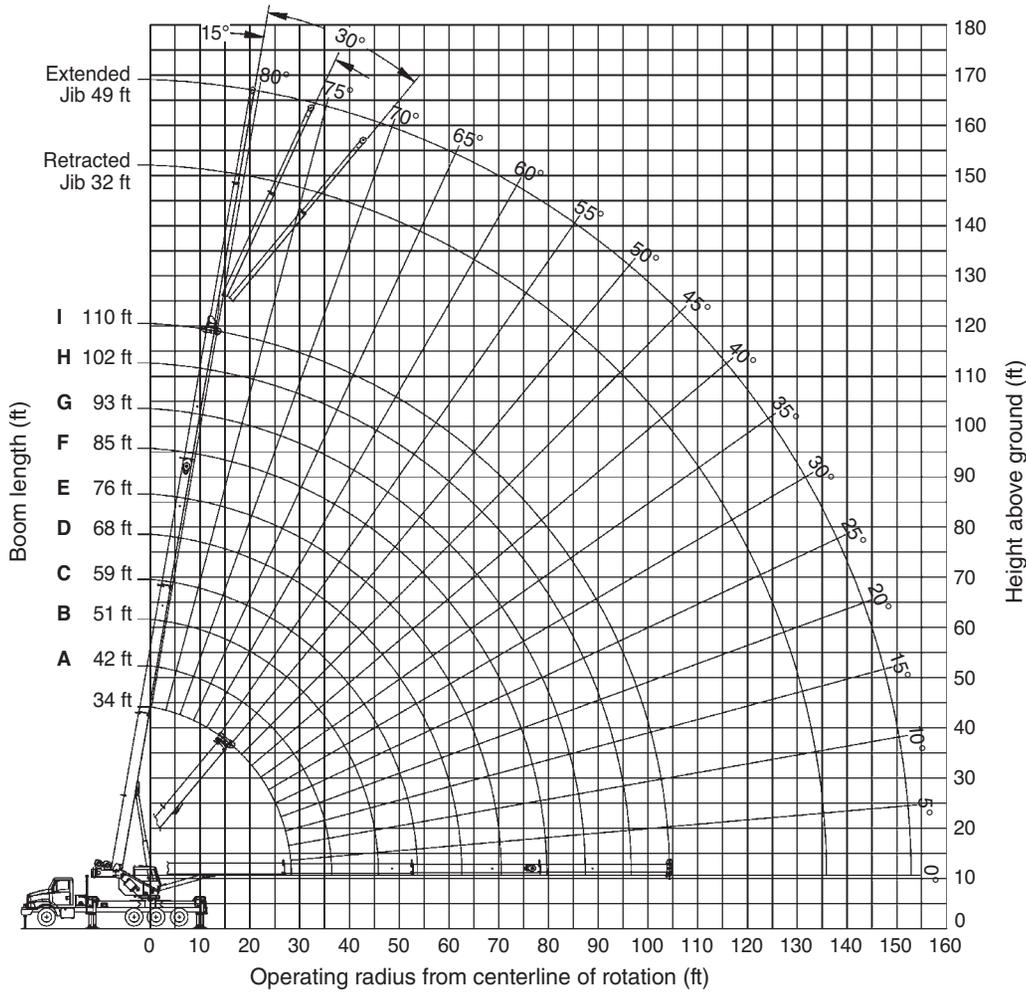


**NOTES:**  
 All "on outriggers" loads are based on 85% tipping  
 Loads based on crane on outriggers  
 Loads above heavy line are based on structural rating  
 Loads below heavy line are based on stability rating

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

# 50110 Boom Diagram and Jib Load Capacities

# Main Boom Jib



23'-3" (7.07 m)

Fully Extended (100%)

| 32 ft retracted jib load capacities |      |           |           |            |           |            |           |       |       |
|-------------------------------------|------|-----------|-----------|------------|-----------|------------|-----------|-------|-------|
|                                     |      | 0° Offset |           | 15° Offset |           | 30° Offset |           |       |       |
|                                     |      | Over rear | Full 360° | Over rear  | Full 360° | Over rear  | Full 360° |       |       |
| ft                                  | °    | lbs       | lbs       | °          | lbs       | lbs        | °         | lbs   | 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 |      |           |           |            |           |            |           |       |       |
|------------------------------------|------|-----------|-----------|------------|-----------|------------|-----------|-------|-------|
|                                    |      | 0° Offset |           | 15° Offset |           | 30° Offset |           |       |       |
|                                    |      | Over rear | Full 360° | Over rear  | Full 360° | Over rear  | Full 360° |       |       |
| ft                                 | °    | lbs       | lbs       | °          | lbs       | lbs        | °         | lbs   | 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

| 34.0 ft – 110.0 ft – 4 section |      |               |               | 23'-3" (7.07 m) |               |               |             | Fully Extended (100 %) |               |             |               |               |             |               |               |
|--------------------------------|------|---------------|---------------|-----------------|---------------|---------------|-------------|------------------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|
| 34.0 ft                        |      |               |               | 42.0 ft (A)     |               |               | 51.0 ft (B) |                        |               | 59.0 ft (C) |               |               | 68.0 ft (D) |               |               |
| ft                             | °    | 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 |
| 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

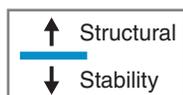
|            |           |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|-----------|
| <b>SJ</b>  | 1,150 lbs | 930 lbs   | 770 lbs   | 670 lbs   | 580 lbs   |
| <b>EJR</b> | 2,940 lbs | 2,770 lbs | 2,640 lbs | 2,560 lbs | 2,490 lbs |
|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

| 76.0 ft (E) |      |               |               | 85.0 ft (F) |               |               | 93.0 ft (G) |               |               | 102.0 ft (H) |               |               | 110.0 ft (I) |               |               |
|-------------|------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|
| ft          | °    | 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 |
| 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

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

**SJ** = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended



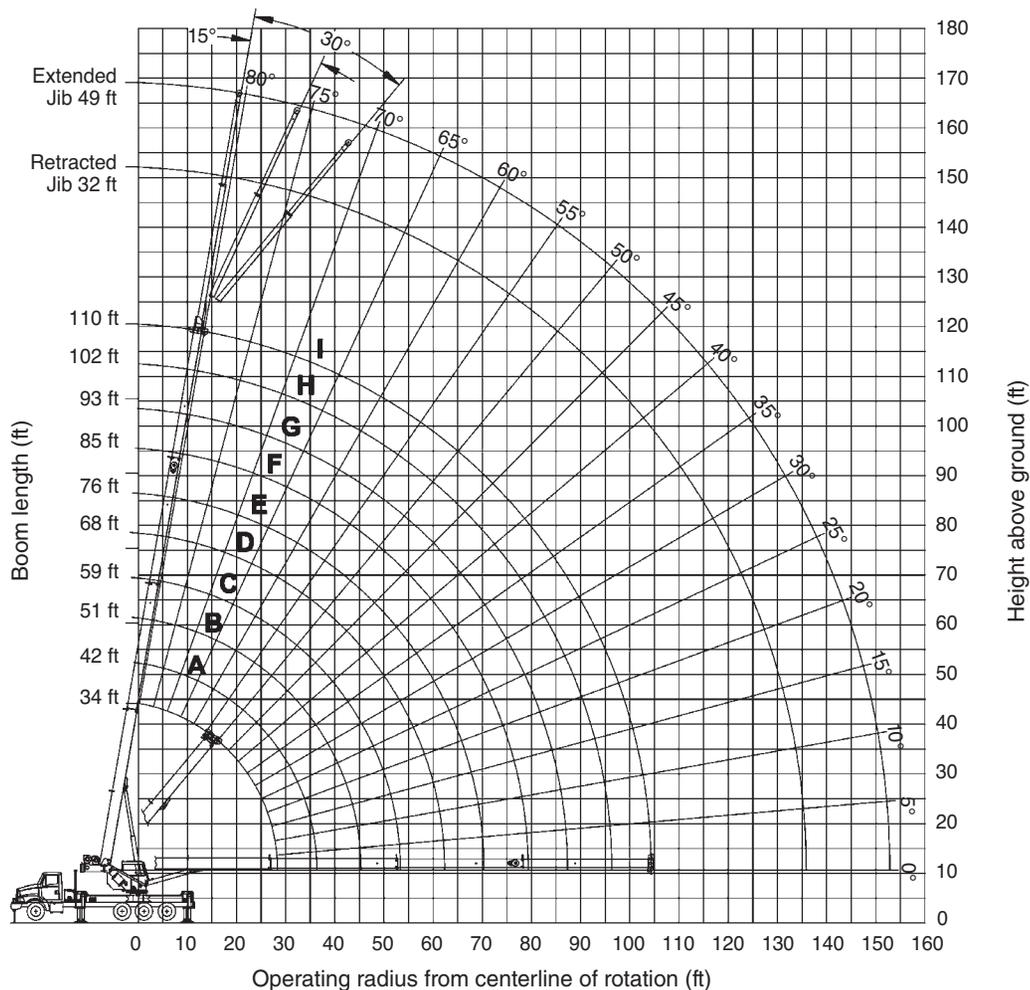
#### NOTES:

- 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 stability rating

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

# 50110HL Boom Diagram and Jib Load Capacities

# Main Boom Jib



| 23'-3" (7.07 m)                     |      |           |           |            |           |            |           |           |           | Fully Extended (100%)              |           |            |           |            |           |           |           |           |           |
|-------------------------------------|------|-----------|-----------|------------|-----------|------------|-----------|-----------|-----------|------------------------------------|-----------|------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|
| 32 ft retracted jib load capacities |      |           |           |            |           |            |           |           |           | 49 ft extended jib load capacities |           |            |           |            |           |           |           |           |           |
|                                     |      | 0° Offset |           | 15° Offset |           | 30° Offset |           |           |           | 0° Offset                          |           | 15° Offset |           | 30° Offset |           |           |           |           |           |
|                                     |      | Over rear | Full 360° | Over rear  | Full 360° | Over rear  | Full 360° | Over rear | Full 360° | Over rear                          | Full 360° | Over rear  | Full 360° | Over rear  | Full 360° | Over rear | Full 360° | Over rear | Full 360° |
| ft                                  | °    | lbs       | lbs       | °          | lbs       | lbs        | °         | lbs       | lbs       | ft                                 | °         | lbs        | lbs       | °          | lbs       | lbs       | °         | lbs       | lbs       |
| 40                                  | 76.5 | 7,300     | 7,300     | -          | -         | -          | -         | -         | -         | 40                                 | 77        | 5,400      | 5,400     | -          | -         | -         | -         | -         | -         |
| 40                                  | 74.5 | 7,300     | 7,300     | -          | -         | -          | -         | -         | -         | 45                                 | 75        | 5,400      | 5,400     | -          | -         | -         | -         | -         | -         |
| 45                                  | 72.5 | 7,300     | 7,300     | 76         | 6,500     | 6,500      | -         | -         | -         | 50                                 | 73.5      | 5,400      | 5,400     | 77         | 4,700     | 4,700     | -         | -         | -         |
| 50                                  | 70.5 | 7,300     | 7,300     | 73.5       | 6,500     | 6,500      | 76        | 5,800     | 5,800     | 55                                 | 71.5      | 5,400      | 5,400     | 75         | 4,700     | 4,700     | -         | -         | -         |
| 55                                  | 68.5 | 6,980     | 6,980     | 71.5       | 6,500     | 6,500      | 74        | 5,800     | 5,800     | 60                                 | 69.5      | 5,400      | 5,400     | 73.5       | 4,480     | 4,480     | 77        | 3,520     | 3,520     |
| 60                                  | 66.5 | 6,600     | 6,600     | 69.5       | 6,120     | 6,120      | 72        | 5,750     | 5,750     | 65                                 | 68        | 5,230      | 5,230     | 71.5       | 4,280     | 4,280     | 75        | 3,520     | 3,520     |
| 65                                  | 64   | 6,230     | 6,230     | 67         | 5,780     | 5,780      | 69.5      | 5,450     | 5,450     | 70                                 | 66        | 4,930      | 4,930     | 69.5       | 4,100     | 4,100     | 73.5      | 3,410     | 3,410     |
| 70                                  | 62   | 5,870     | 5,870     | 65         | 5,450     | 5,450      | 67        | 5,160     | 5,160     | 75                                 | 64        | 4,660      | 4,660     | 67.5       | 3,940     | 3,940     | 71        | 3,310     | 3,310     |
| 75                                  | 59.5 | 5,530     | 5,530     | 62.5       | 5,160     | 5,160      | 64.5      | 4,900     | 4,900     | 80                                 | 62        | 4,410      | 4,410     | 65.5       | 3,790     | 3,790     | 69        | 3,210     | 3,210     |
| 80                                  | 57   | 5,110     | 5,110     | 60         | 4,880     | 4,880      | 62        | 4,670     | 4,670     | 85                                 | 60        | 4,170      | 4,170     | 63.5       | 3,650     | 3,650     | 67        | 3,130     | 3,130     |
| 85                                  | 54.5 | 4,690     | 4,690     | 57.5       | 4,630     | 4,630      | 59.5      | 4,450     | 4,450     | 90                                 | 57.5      | 3,950      | 3,950     | 61.5       | 3,520     | 3,520     | 64.5      | 3,050     | 3,050     |
| 90                                  | 52   | 4,280     | 4,280     | 54.5       | 4,400     | 4,400      | 56.5      | 4,250     | 4,250     | 95                                 | 55.5      | 3,750      | 3,750     | 59         | 3,400     | 3,400     | 62        | 2,980     | 2,980     |
| 95                                  | 49   | 3,920     | 3,760     | 51.5       | 4,070     | 4,030      | 53.5      | 4,070     | 4,070     | 100                                | 53        | 3,560      | 3,560     | 57         | 3,290     | 3,290     | 59.5      | 2,910     | 2,910     |
| 100                                 | 46   | 3,570     | 3,270     | 48.5       | 3,700     | 3,510      | 50.5      | 3,820     | 3,680     | 105                                | 50.5      | 3,380      | 3,380     | 54.5       | 3,190     | 3,190     | 57        | 2,860     | 2,860     |
| 105                                 | 43   | 3,250     | 2,830     | 45.5       | 3,370     | 3,040      | 47        | 3,480     | 3,180     | 110                                | 48        | 3,220      | 3,020     | 52         | 3,050     | 3,050     | 54.5      | 2,810     | 2,810     |
| 110                                 | 39.5 | 2,950     | 2,440     | 42         | 3,050     | 2,620      | 43.5      | 3,140     | 2,730     | 115                                | 45.5      | 2,980      | 2,660     | 49         | 2,920     | 2,920     | 51.5      | 2,760     | 2,760     |
| 115                                 | 35.5 | 2,670     | 2,080     | 38         | 2,770     | 2,230      | 39        | 2,830     | 2,320     | 120                                | 42.5      | 2,730      | 2,330     | 46         | 2,800     | 2,580     | 48.5      | 2,730     | 2,730     |
| 120                                 | 31.5 | 2,420     | 1,760     | 34         | 2,500     | 1,880      | 34.5      | 2,540     | 1,940     | 125                                | 39.5      | 2,500      | 2,030     | 43         | 2,640     | 2,250     | 45        | 2,650     | 2,400     |
| 125                                 | 26.5 | 2,180     | 1,460     | 29         | 2,240     | 1,560      | 29        | 2,260     | 1,580     | 130                                | 36        | 2,290      | 1,760     | 39.5       | 2,410     | 1,950     | 41        | 2,480     | 2,070     |
| 130                                 | 20.5 | 1,960     | 1,190     | 22         | 2,000     | 1,250      | 20        | 1,970     | 1,230     | 135                                | 32        | 2,090      | 1,510     | 35.5       | 2,190     | 1,660     | 36.5      | 2,240     | 1,750     |
| 135                                 | 10   | 1,760     | 930       | -          | -         | -          | -         | -         | -         | 140                                | 28        | 1,890      | 1,270     | 31         | 1,970     | 1,440     | 31        | 2,000     | 1,440     |
|                                     |      |           |           |            |           |            |           |           |           | 145                                | 22.5      | 1,720      | 1,060     | 25         | 1,770     | 1,150     | -         | -         | -         |
|                                     |      |           |           |            |           |            |           |           |           | 150                                | 15        | 1,550      | 850       | 15.5       | 1,570     | 890       | -         | -         | -         |

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

# 50128 Load Chart

# Main Boom

| 38.5 ft – 128.0 ft – 4 section |      |           |           | 23'-3" (7.07 m) |           |           |      | Fully Extended (100 %) |           |      |           |             |    |  |  |
|--------------------------------|------|-----------|-----------|-----------------|-----------|-----------|------|------------------------|-----------|------|-----------|-------------|----|--|--|
| 38.5 ft                        |      |           |           | 53.0 ft (A)     |           |           |      | 66.0 ft (B)            |           |      |           | 78.0 ft (C) |    |  |  |
| ft                             | °    | Over rear | Full 360° | °               | Over rear | Full 360° | °    | Over rear              | Full 360° | °    | Over rear | Full 360°   | ft |  |  |
|                                |      | lbs       | lbs       |                 | lbs       | lbs       |      | lbs                    | lbs       |      | lbs       | lbs         |    |  |  |
| 6                              | 73.5 | 100,000   | 100,000   | -               | -         | -         | -    | -                      | -         | -    | -         | -           | 6  |  |  |
| 8                              | 70.5 | 86,600    | 86,600    | -               | -         | -         | -    | -                      | -         | -    | -         | -           | 8  |  |  |
| 10                             | 67   | 76,400    | 76,400    | 74.5            | 51,000    | 51,000    | 78   | 51,000                 | 51,000    | -    | -         | -           | 10 |  |  |
| 12                             | 64   | 68,400    | 68,400    | 72.5            | 51,000    | 51,000    | 76.5 | 51,000                 | 51,000    | 79   | 41,710    | 41,710      | 12 |  |  |
| 15                             | 59   | 59,000    | 59,000    | 68.5            | 51,000    | 51,000    | 73.5 | 46,650                 | 46,650    | 77   | 37,880    | 37,880      | 15 |  |  |
| 20                             | 49.5 | 47,670    | 47,670    | 62.5            | 45,700    | 45,700    | 69   | 39,300                 | 39,300    | 73   | 32,140    | 32,140      | 20 |  |  |
| 25                             | 38.5 | 36,900    | 36,900    | 56              | 37,680    | 37,680    | 64   | 33,450                 | 33,450    | 69   | 27,890    | 27,890      | 25 |  |  |
| 30                             | 23.5 | 29,590    | 26,680    | 49.5            | 30,410    | 27,890    | 59   | 29,140                 | 28,440    | 65   | 24,230    | 24,230      | 30 |  |  |
| 35                             | -    | -         | -         | 41.5            | 25,170    | 20,650    | 54   | 25,490                 | 21,160    | 61   | 21,310    | 21,310      | 35 |  |  |
| 40                             | -    | -         | -         | 32              | 20,620    | 15,940    | 48   | 21,090                 | 16,440    | 56.5 | 19,160    | 16,730      | 40 |  |  |
| 45                             | -    | -         | -         | 18.5            | 16,770    | 12,610    | 42   | 17,270                 | 13,130    | 52   | 17,070    | 13,410      | 45 |  |  |
| 50                             | -    | -         | -         | -               | -         | -         | 34.5 | 14,390                 | 10,670    | 46.5 | 14,660    | 10,950      | 50 |  |  |
| 55                             | -    | -         | -         | -               | -         | -         | 25   | 12,140                 | 8,760     | 41   | 12,420    | 9,050       | 55 |  |  |
| 60                             | -    | -         | -         | -               | -         | -         | 7    | 9,790                  | 7,200     | 35   | 10,620    | 7,540       | 60 |  |  |
| 65                             | -    | -         | -         | -               | -         | -         | -    | -                      | -         | 27   | 9,140     | 6,300       | 65 |  |  |
| 70                             | -    | -         | -         | -               | -         | -         | -    | -                      | -         | 16   | 7,890     | 5,260       | 70 |  |  |

### Deductions from main boom capacities for stowed jibs

|            |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|
| <b>SJ</b>  | 1,230 lbs | 890 lbs   | 720 lbs   | 610 lbs   |
| <b>EJR</b> | 2,840 lbs | 2,620 lbs | 2,500 lbs | 2,430 lbs |
| <b>EJE</b> | 3,170 lbs | 2,860 lbs | 2,700 lbs | 2,600 lbs |

| 91.0 ft (D) |      |           |           | 103.0 ft (E) |           |           |      | 116.0 ft (F) |           |      |           | 128.0 ft (G) |     |  |  |
|-------------|------|-----------|-----------|--------------|-----------|-----------|------|--------------|-----------|------|-----------|--------------|-----|--|--|
| ft          | °    | Over rear | Full 360° | °            | Over rear | Full 360° | °    | Over rear    | Full 360° | °    | Over rear | Full 360°    | ft  |  |  |
|             |      | lbs       | lbs       |              | lbs       | lbs       |      | lbs          | lbs       |      | lbs       | lbs          |     |  |  |
| 15          | 79   | 30,000    | 30,000    | -            | -         | -         | -    | -            | -         | -    | -         | -            | 15  |  |  |
| 20          | 76   | 26,010    | 26,010    | 78.5         | 22,790    | 22,790    | -    | -            | -         | -    | -         | -            | 20  |  |  |
| 25          | 72.5 | 22,620    | 22,620    | 75.5         | 20,160    | 20,160    | 78   | 17,660       | 17,660    | -    | -         | -            | 25  |  |  |
| 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       | 30  |  |  |
| 35          | 66   | 17,710    | 17,710    | 70.5         | 16,070    | 16,070    | 73   | 14,480       | 14,480    | 75.5 | 12,760    | 12,760       | 35  |  |  |
| 40          | 62.5 | 15,740    | 15,740    | 67.5         | 14,360    | 14,360    | 70.5 | 13,050       | 13,050    | 73   | 11,760    | 11,760       | 40  |  |  |
| 45          | 59   | 14,050    | 13,620    | 64           | 12,900    | 12,900    | 68   | 11,780       | 11,780    | 71   | 10,800    | 10,800       | 45  |  |  |
| 50          | 55   | 12,620    | 11,150    | 60.5         | 11,610    | 11,290    | 65   | 10,640       | 10,640    | 68.5 | 10,000    | 10,000       | 50  |  |  |
| 55          | 50.5 | 11,380    | 9,250     | 57           | 10,500    | 9,380     | 62   | 9,890        | 9,490     | 66   | 9,130     | 9,130        | 55  |  |  |
| 60          | 46.5 | 10,340    | 7,740     | 53.5         | 9,760     | 7,870     | 59   | 8,970        | 7,970     | 63.5 | 8,320     | 8,050        | 60  |  |  |
| 65          | 41.5 | 9,340     | 6,510     | 50           | 8,860     | 6,640     | 56   | 8,160        | 6,740     | 60.5 | 7,570     | 6,820        | 65  |  |  |
| 70          | 36.5 | 8,110     | 5,490     | 46           | 8,060     | 5,620     | 53   | 7,430        | 5,720     | 58   | 6,910     | 5,790        | 70  |  |  |
| 75          | 30   | 7,060     | 4,620     | 41.5         | 7,190     | 4,750     | 49.5 | 6,780        | 4,860     | 55   | 6,300     | 4,930        | 75  |  |  |
| 80          | 22   | 6,160     | 3,870     | 37           | 6,300     | 4,020     | 46   | 6,180        | 4,120     | 52   | 5,750     | 4,190        | 80  |  |  |
| 85          | 7    | 5,290     | 3,200     | 31.5         | 5,520     | 3,380     | 42.5 | 5,620        | 3,480     | 49   | 5,250     | 3,550        | 85  |  |  |
| 90          | -    | -         | -         | 25           | 4,830     | 2,810     | 38   | 4,940        | 2,920     | 46   | 4,790     | 3,000        | 90  |  |  |
| 95          | -    | -         | -         | 15.5         | 4,210     | 2,300     | 33.5 | 4,340        | 2,430     | 42   | 4,370     | 2,510        | 95  |  |  |
| 100         | -    | -         | -         | -            | -         | -         | 28.5 | 3,800        | 1,990     | 38.5 | 3,870     | 2,070        | 100 |  |  |
| 105         | -    | -         | -         | -            | -         | -         | 21.5 | 3,310        | 1,590     | 34   | 3,390     | 1,680        | 105 |  |  |
| 110         | -    | -         | -         | -            | -         | -         | 7.5  | 2,860        | 1,220     | 29.5 | 2,960     | 1,320        | 110 |  |  |
| 115         | -    | -         | -         | -            | -         | -         | -    | -            | -         | 23.5 | 2,560     | 1,000        | 115 |  |  |
| 120         | -    | -         | -         | -            | -         | -         | -    | -            | -         | 15   | 2,200     | -            | 120 |  |  |

### Deductions from main boom capacities for stowed jibs

|            |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|
| <b>SJ</b>  | 520 lbs   | 460 lbs   | 410 lbs   | 370 lbs   |
| <b>EJR</b> | 2,370 lbs | 2,330 lbs | 2,300 lbs | 2,280 lbs |
| <b>EJE</b> | 2,520 lbs | 2,460 lbs | 2,410 lbs | 2,380 lbs |

**SJ** = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended

|   |            |
|---|------------|
| ↑ | Structural |
| ↓ | Stability  |

#### NOTES:

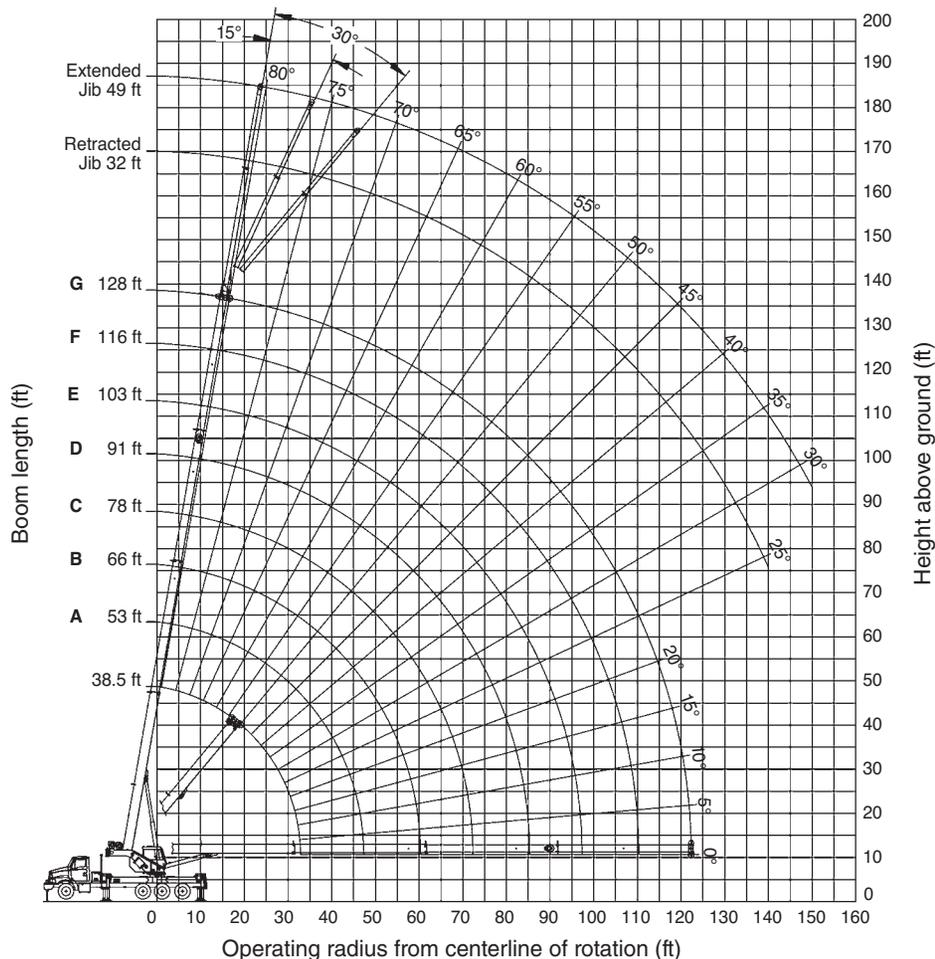
All "on outriggers" loads are based on 85% tipping  
 Loads based on crane on outriggers

Loads above heavy line are based on structural rating  
 Loads below heavy line are based on stability rating

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

# 50128 Boom Diagram and Jib Load Capacities

# Main Boom Jib



| 23'-3" (7.07 m)                     |      |           |       |      |            |       |           |       |       | Fully Extended (100%)              |     |           |     |      |           |       |           |       |       |            |       |           |     |     |            |      |           |       |       |           |       |           |      |       |       |
|-------------------------------------|------|-----------|-------|------|------------|-------|-----------|-------|-------|------------------------------------|-----|-----------|-----|------|-----------|-------|-----------|-------|-------|------------|-------|-----------|-----|-----|------------|------|-----------|-------|-------|-----------|-------|-----------|------|-------|-------|
| 32 ft retracted jib load capacities |      |           |       |      |            |       |           |       |       | 49 ft extended jib load capacities |     |           |     |      |           |       |           |       |       |            |       |           |     |     |            |      |           |       |       |           |       |           |      |       |       |
| 0° Offset                           |      |           |       |      | 15° Offset |       |           |       |       | 30° Offset                         |     |           |     |      | 0° Offset |       |           |       |       | 15° Offset |       |           |     |     | 30° Offset |      |           |       |       |           |       |           |      |       |       |
| Over rear                           |      | Full 360° |       |      | Over rear  |       | Full 360° |       |       | Over rear                          |     | Full 360° |     |      | Over rear |       | Full 360° |       |       | Over rear  |       | Full 360° |     |     | Over rear  |      | Full 360° |       |       | Over rear |       | Full 360° |      |       |       |
| ft                                  | °    | lbs       | lbs   | lbs  | °          | lbs   | lbs       | lbs   | °     | lbs                                | lbs | lbs       | ft  | °    | lbs       | lbs   | lbs       | °     | lbs   | lbs        | °     | lbs       | lbs | lbs | ft         | °    | lbs       | lbs   | lbs   | °         | lbs   | lbs       | lbs  |       |       |
| 35                                  | 78   | 5,400     | 5,400 | -    | -          | -     | -         | -     | -     | -                                  | -   | -         | 40  | 78   | 4,300     | 4,300 | -         | -     | -     | -          | -     | -         | -   | -   | 40         | 78   | 4,300     | 4,300 | -     | -         | -     | -         | -    |       |       |
| 40                                  | 76.5 | 5,400     | 5,400 | 79.5 | 5,400      | 5,400 | -         | -     | -     | -                                  | -   | -         | 45  | 76.5 | 4,300     | 4,300 | -         | -     | -     | -          | -     | -         | -   | -   | 45         | 76.5 | 4,300     | 4,300 | -     | -         | -     | -         | -    |       |       |
| 45                                  | 75   | 5,400     | 5,400 | 78   | 5,400      | 5,400 | -         | -     | -     | -                                  | -   | -         | 50  | 75   | 4,300     | 4,300 | 79.5      | 4,300 | 4,300 | -          | -     | -         | -   | -   | 50         | 75   | 4,300     | 4,300 | 79.5  | 4,300     | 4,300 | -         | -    | -     |       |
| 50                                  | 73.5 | 5,400     | 5,400 | 76.5 | 5,400      | 5,400 | 79        | 5,400 | 5,400 | -                                  | -   | -         | 55  | 73.5 | 4,300     | 4,300 | 78        | 4,300 | 4,300 | -          | -     | -         | -   | -   | 55         | 73.5 | 4,300     | 4,300 | 78    | 4,300     | 4,300 | -         | -    | -     |       |
| 55                                  | 72   | 5,400     | 5,400 | 74.5 | 5,400      | 5,400 | 77        | 5,400 | 5,400 | -                                  | -   | -         | 60  | 72   | 4,300     | 4,300 | 76.5      | 4,300 | 4,300 | 79.5       | 3,700 | 3,700     | -   | -   | -          | 60   | 72        | 4,300 | 4,300 | 76.5      | 4,300 | 4,300     | 79.5 | 3,700 | 3,700 |
| 60                                  | 70   | 5,400     | 5,400 | 73   | 5,400      | 5,400 | 75        | 5,400 | 5,400 | -                                  | -   | -         | 65  | 70.5 | 4,300     | 4,300 | 75        | 4,300 | 4,300 | 78         | 3,590 | 3,590     | -   | -   | -          | 65   | 70.5      | 4,300 | 4,300 | 75        | 4,300 | 4,300     | 78   | 3,590 | 3,590 |
| 65                                  | 68.5 | 5,400     | 5,400 | 71   | 5,400      | 5,400 | 73        | 5,240 | 5,240 | -                                  | -   | -         | 70  | 69   | 4,300     | 4,300 | 73.5      | 4,230 | 4,230 | 76         | 3,490 | 3,490     | -   | -   | -          | 70   | 69        | 4,300 | 4,300 | 73.5      | 4,230 | 4,230     | 76   | 3,490 | 3,490 |
| 70                                  | 66.5 | 5,210     | 5,210 | 69   | 5,230      | 5,230 | 71.5      | 4,990 | 4,990 | -                                  | -   | -         | 75  | 67.5 | 4,300     | 4,300 | 71.5      | 4,080 | 4,080 | 74         | 3,390 | 3,390     | -   | -   | -          | 75   | 67.5      | 4,300 | 4,300 | 71.5      | 4,080 | 4,080     | 74   | 3,390 | 3,390 |
| 75                                  | 64.5 | 4,740     | 4,740 | 67   | 4,970      | 4,970 | 69.5      | 4,750 | 4,750 | -                                  | -   | -         | 80  | 66   | 4,240     | 4,240 | 70        | 3,930 | 3,930 | 72.5       | 3,300 | 3,300     | -   | -   | -          | 80   | 66        | 4,240 | 4,240 | 70        | 3,930 | 3,930     | 72.5 | 3,300 | 3,300 |
| 80                                  | 62.5 | 4,300     | 4,030 | 65   | 4,570      | 4,480 | 67.5      | 4,520 | 4,520 | -                                  | -   | -         | 85  | 64.5 | 4,030     | 4,010 | 68.5      | 3,760 | 3,760 | 70.5       | 3,220 | 3,220     | -   | -   | -          | 85   | 64.5      | 4,030 | 4,010 | 68.5      | 3,760 | 3,760     | 70.5 | 3,220 | 3,220 |
| 85                                  | 60.5 | 3,890     | 3,390 | 63   | 4,140      | 3,790 | 65        | 4,310 | 4,120 | -                                  | -   | -         | 90  | 63   | 3,740     | 3,430 | 66.5      | 3,590 | 3,590 | 69         | 3,140 | 3,140     | -   | -   | -          | 90   | 63        | 3,740 | 3,430 | 66.5      | 3,590 | 3,590     | 69   | 3,140 | 3,140 |
| 90                                  | 58   | 3,510     | 2,820 | 61   | 3,740      | 3,190 | 63        | 3,930 | 3,480 | -                                  | -   | -         | 95  | 61   | 3,430     | 2,930 | 64.5      | 3,420 | 3,420 | 67         | 3,070 | 3,070     | -   | -   | -          | 95   | 61        | 3,430 | 2,930 | 64.5      | 3,420 | 3,420     | 67   | 3,070 | 3,070 |
| 95                                  | 55.5 | 3,160     | 2,320 | 58.5 | 3,360      | 2,650 | 60.5      | 3,540 | 2,920 | -                                  | -   | -         | 100 | 59   | 3,120     | 2,480 | 62.5      | 3,270 | 2,950 | 65         | 3,000 | 3,000     | -   | -   | -          | 100  | 59        | 3,120 | 2,480 | 62.5      | 3,270 | 2,950     | 65   | 3,000 | 3,000 |
| 100                                 | 53   | 2,820     | 1,880 | 56   | 3,010      | 2,180 | 58        | 3,170 | 2,410 | -                                  | -   | -         | 105 | 57   | 2,840     | 2,080 | 60.5      | 3,100 | 2,510 | 63         | 2,940 | 2,870     | -   | -   | -          | 105  | 57        | 2,840 | 2,080 | 60.5      | 3,100 | 2,510     | 63   | 2,940 | 2,870 |
| 105                                 | 50.5 | 2,520     | 1,490 | 53.5 | 2,690      | 1,760 | 55.5      | 2,830 | 1,960 | -                                  | -   | -         | 110 | 54.5 | 2,560     | 1,720 | 58        | 2,810 | 2,120 | 61         | 2,880 | 2,440     | -   | -   | -          | 110  | 54.5      | 2,560 | 1,720 | 58        | 2,810 | 2,120     | 61   | 2,880 | 2,440 |
| 110                                 | 48   | 2,230     | 1,130 | 50.5 | 2,390      | 1,380 | 52.5      | 2,510 | 1,560 | -                                  | -   | -         | 115 | 52   | 2,310     | 1,400 | 56        | 2,540 | 1,760 | 58.5       | 2,720 | 2,050     | -   | -   | -          | 115  | 52        | 2,310 | 1,400 | 56        | 2,540 | 1,760     | 58.5 | 2,720 | 2,050 |
| 115                                 | 45.5 | 1,960     | 810   | 48   | 2,100      | 1,030 | 49.5      | 2,210 | 1,180 | -                                  | -   | -         | 120 | 49.5 | 2,070     | 1,100 | 53.5      | 2,280 | 1,430 | 56         | 2,450 | 1,690     | -   | -   | -          | 120  | 49.5      | 2,070 | 1,100 | 53.5      | 2,280 | 1,430     | 56   | 2,450 | 1,690 |
| 120                                 | 42.5 | 1,700     | -     | 45   | 1,830      | -     | 46.5      | 1,920 | 840   | -                                  | -   | -         | 125 | 47   | 1,840     | 830   | 51        | 2,040 | 1,130 | 53.5       | 2,190 | 1,360     | -   | -   | -          | 125  | 47        | 1,840 | 830   | 51        | 2,040 | 1,130     | 53.5 | 2,190 | 1,360 |
| 125                                 | 39.5 | 1,470     | -     | 42   | 1,580      | -     | 43        | 1,660 | -     | -                                  | -   | -         | 130 | 44.5 | 1,630     | -     | 48        | 1,810 | 860   | 50.5       | 1,940 | 1,060     | -   | -   | -          | 130  | 44.5      | 1,630 | -     | 48        | 1,810 | 860       | 50.5 | 1,940 | 1,060 |
| 130                                 | 36.5 | 1,240     | -     | 38.5 | 1,350      | -     | 39.5      | 1,400 | -     | -                                  | -   | -         | 135 | 42   | 1,430     | -     | 45.5      | 1,590 | -     | 47.5       | 1,700 | 770       | -   | -   | -          | 135  | 42        | 1,430 | -     | 45.5      | 1,590 | -         | 47.5 | 1,700 | 770   |
| 135                                 | 32.5 | 1,030     | -     | 34.5 | 1,120      | -     | 35.5      | 1,160 | -     | -                                  | -   | -         | 140 | 39.5 | 1,240     | -     | 42.5      | 1,390 | -     | 44.5       | 1,480 | -         | -   | -   | -          | 140  | 39.5      | 1,240 | -     | 42.5      | 1,390 | -         | 44.5 | 1,480 | -     |
| 140                                 | 28.5 | 840       | -     | 30.5 | 910        | -     | 30.5      | 920   | -     | -                                  | -   | -         | 145 | 36.5 | 1,060     | -     | 39.5      | 1,190 | -     | 41         | 1,260 | -         | -   | -   | -          | 145  | 36.5      | 1,060 | -     | 39.5      | 1,190 | -         | 41   | 1,260 | -     |
|                                     |      |           |       |      |            |       |           |       |       | -                                  | -   | -         | 150 | 33   | 900       | -     | 36        | 1,000 | -     | 37         | 1,050 | -         | -   | -   | -          | 150  | 33        | 900   | -     | 36        | 1,000 | -         | 37   | 1,050 | -     |
|                                     |      |           |       |      |            |       |           |       |       | -                                  | -   | -         | 155 | -    | -         | -     | 32        | 820   | -     | 32.5       | 850   | -         | -   | -   | -          | 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

| 38.5 ft – 128.0 ft – 4 section |      |               |               | 23'-3" (7.07 m) |               |               |             | Fully Extended (100 %) |               |             |               |               |    |
|--------------------------------|------|---------------|---------------|-----------------|---------------|---------------|-------------|------------------------|---------------|-------------|---------------|---------------|----|
| 38.5 ft                        |      |               |               | 53.0 ft (A)     |               |               | 66.0 ft (B) |                        |               | 78.0 ft (C) |               |               |    |
| ft                             | °    | Over rear lbs | Full 360° lbs | °               | Over rear lbs | Full 360° lbs | °           | Over rear lbs          | Full 360° lbs | °           | Over rear lbs | Full 360° lbs | ft |
| 6                              | 73.5 | 100,000       | 100,000       | -               | -             | -             | -           | -                      | -             | -           | -             | -             | 6  |
| 8                              | 70.5 | 86,600        | 86,600        | -               | -             | -             | -           | -                      | -             | -           | -             | -             | 8  |
| 10                             | 67   | 76,400        | 76,400        | 74.5            | 51,000        | 51,000        | 78          | 51,000                 | 51,000        | -           | -             | -             | 10 |
| 12                             | 64   | 68,400        | 68,400        | 72.5            | 51,000        | 51,000        | 76.5        | 51,000                 | 51,000        | 79          | 41,710        | 41,710        | 12 |
| 15                             | 59   | 59,000        | 59,000        | 68.5            | 51,000        | 51,000        | 73.5        | 46,650                 | 46,650        | 77          | 37,880        | 37,880        | 15 |
| 20                             | 49.5 | 47,700        | 47,700        | 62.5            | 45,700        | 45,700        | 69          | 39,300                 | 39,300        | 73          | 32,140        | 32,140        | 20 |
| 25                             | 38.5 | 38,300        | 38,300        | 56              | 38,400        | 38,400        | 64          | 33,450                 | 33,450        | 69          | 27,890        | 27,890        | 25 |
| 30                             | 23.5 | 30,200        | 30,200        | 49.5            | 31,590        | 31,590        | 59          | 29,140                 | 29,140        | 65          | 24,230        | 24,230        | 30 |
| 35                             | -    | -             | -             | 41.5            | 26,180        | 23,590        | 54          | 25,490                 | 24,100        | 61          | 21,310        | 21,310        | 35 |
| 40                             | -    | -             | -             | 32              | 22,080        | 18,360        | 48          | 22,480                 | 18,860        | 56.5        | 19,160        | 19,150        | 40 |
| 45                             | -    | -             | -             | 18.5            | 18,340        | 14,670        | 42          | 19,280                 | 15,190        | 52          | 17,070        | 15,470        | 45 |
| 50                             | -    | -             | -             | -               | -             | -             | 34.5        | 16,710                 | 12,460        | 46.5        | 15,330        | 12,740        | 50 |
| 55                             | -    | -             | -             | -               | -             | -             | 25          | 14,420                 | 10,350        | 41          | 13,850        | 10,630        | 55 |
| 60                             | -    | -             | -             | -               | -             | -             | 7           | 9,790                  | 8,620         | 35          | 12,560        | 8,960         | 60 |
| 65                             | -    | -             | -             | -               | -             | -             | -           | -                      | -             | 27          | 11,000        | 7,590         | 65 |
| 70                             | -    | -             | -             | -               | -             | -             | -           | -                      | -             | 16          | 9,600         | 6,440         | 70 |

### Deductions from main boom capacities for stowed jibs

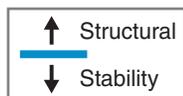
|            |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|
| <b>SJ</b>  | 1,230 lbs | 890 lbs   | 720 lbs   | 610 lbs   |
| <b>EJR</b> | 2,840 lbs | 2,620 lbs | 2,500 lbs | 2,430 lbs |
| <b>EJE</b> | 3,170 lbs | 2,860 lbs | 2,700 lbs | 2,600 lbs |

| 91.0 ft (D) |      |               |               | 103.0 ft (E) |               |               | 116.0 ft (F) |               |               | 128.0 ft (G) |               |               |     |
|-------------|------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|-----|
| ft          | °    | Over rear lbs | Full 360° lbs | °            | Over rear lbs | Full 360° lbs | °            | Over rear lbs | Full 360° lbs | °            | Over rear lbs | Full 360° lbs | ft  |
| 15          | 79   | 30,000        | 30,000        | -            | -             | -             | -            | -             | -             | -            | -             | -             | 15  |
| 20          | 76   | 26,010        | 26,010        | 78.5         | 22,790        | 22,790        | -            | -             | -             | -            | -             | -             | 20  |
| 25          | 72.5 | 22,620        | 22,620        | 75.5         | 20,160        | 20,160        | 78           | 17,660        | 17,660        | -            | -             | -             | 25  |
| 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        | 30  |
| 35          | 66   | 17,710        | 17,710        | 70.5         | 16,070        | 16,070        | 73           | 14,480        | 14,480        | 75.5         | 12,760        | 12,760        | 35  |
| 40          | 62.5 | 15,740        | 15,740        | 67.5         | 14,360        | 14,360        | 70.5         | 13,050        | 13,050        | 73           | 11,760        | 11,760        | 40  |
| 45          | 59   | 14,050        | 14,050        | 64           | 12,900        | 12,900        | 68           | 11,780        | 11,780        | 71           | 10,800        | 10,800        | 45  |
| 50          | 55   | 12,620        | 12,620        | 60.5         | 11,610        | 11,610        | 65           | 10,640        | 10,640        | 68.5         | 10,000        | 10,000        | 50  |
| 55          | 50.5 | 11,380        | 10,830        | 57           | 10,500        | 10,500        | 62           | 9,890         | 9,890         | 66           | 9,130         | 9,130         | 55  |
| 60          | 46.5 | 10,340        | 9,160         | 53.5         | 9,760         | 9,290         | 59           | 8,970         | 8,970         | 63.5         | 8,320         | 8,320         | 60  |
| 65          | 41.5 | 9,630         | 7,800         | 50           | 8,860         | 7,930         | 56           | 8,160         | 8,030         | 60.5         | 7,570         | 7,570         | 65  |
| 70          | 36.5 | 8,770         | 6,660         | 46           | 8,060         | 6,790         | 53           | 7,430         | 6,900         | 58           | 6,910         | 6,910         | 70  |
| 75          | 30   | 8,000         | 5,700         | 41.5         | 7,350         | 5,840         | 49.5         | 6,780         | 5,940         | 55           | 6,300         | 6,010         | 75  |
| 80          | 22   | 7,320         | 4,880         | 37           | 6,720         | 5,020         | 46           | 6,180         | 5,130         | 52           | 5,750         | 5,200         | 80  |
| 85          | 7    | 5,290         | 4,140         | 31.5         | 6,140         | 4,310         | 42.5         | 5,650         | 4,420         | 49           | 5,250         | 4,490         | 85  |
| 90          | -    | -             | -             | 25           | 5,630         | 3,690         | 38           | 5,160         | 3,800         | 46           | 4,790         | 3,870         | 90  |
| 95          | -    | -             | -             | 15.5         | 5,160         | 3,130         | 33.5         | 4,720         | 3,260         | 42           | 4,370         | 3,330         | 95  |
| 100         | -    | -             | -             | -            | -             | -             | 28.5         | 4,310         | 2,770         | 38.5         | 3,980         | 2,850         | 100 |
| 105         | -    | -             | -             | -            | -             | -             | 21.5         | 3,940         | 2,330         | 34           | 3,620         | 2,410         | 105 |
| 110         | -    | -             | -             | -            | -             | -             | 7.5          | 3,610         | 1,920         | 29.5         | 3,300         | 2,020         | 110 |
| 115         | -    | -             | -             | -            | -             | -             | -            | -             | -             | 23.5         | 2,990         | 1,660         | 115 |
| 120         | -    | -             | -             | -            | -             | -             | -            | -             | -             | 15           | 2,710         | 1,330         | 120 |

### Deductions from main boom capacities for stowed jibs

|            |           |           |           |           |
|------------|-----------|-----------|-----------|-----------|
| <b>SJ</b>  | 520 lbs   | 460 lbs   | 410 lbs   | 370 lbs   |
| <b>EJR</b> | 2,370 lbs | 2,330 lbs | 2,300 lbs | 2,280 lbs |
| <b>EJE</b> | 2,520 lbs | 2,460 lbs | 2,410 lbs | 2,380 lbs |

**SJ** = Stowed jib · **EJR** = Erected jib retracted · **EJE** = Erected jib extended



#### NOTES:

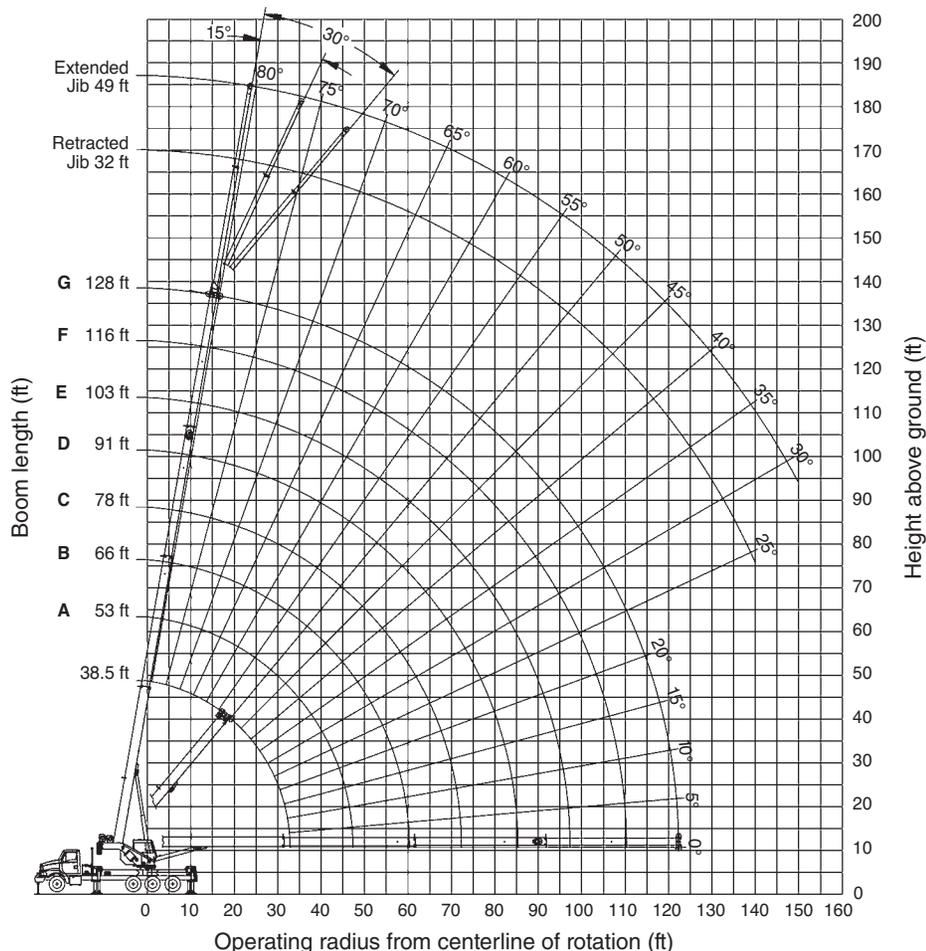
All "on outriggers" loads are based on 85% tipping  
 Loads based on crane on outriggers

Loads above heavy line are based on structural rating  
 Loads below heavy line are based on stability rating

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

# 50128HL Boom Diagram and Jib Load Capacities

# Main Boom Jib



| 23'-3" (7.07 m)                     |      |           |       |      |            |       |           |       |       | Fully Extended (100%)              |     |           |     |      |           |       |           |       |       |            |       |           |     |     |            |      |           |       |       |           |       |           |       |       |       |
|-------------------------------------|------|-----------|-------|------|------------|-------|-----------|-------|-------|------------------------------------|-----|-----------|-----|------|-----------|-------|-----------|-------|-------|------------|-------|-----------|-----|-----|------------|------|-----------|-------|-------|-----------|-------|-----------|-------|-------|-------|
| 32 ft retracted jib load capacities |      |           |       |      |            |       |           |       |       | 49 ft extended jib load capacities |     |           |     |      |           |       |           |       |       |            |       |           |     |     |            |      |           |       |       |           |       |           |       |       |       |
| 0° Offset                           |      |           |       |      | 15° Offset |       |           |       |       | 30° Offset                         |     |           |     |      | 0° Offset |       |           |       |       | 15° Offset |       |           |     |     | 30° Offset |      |           |       |       |           |       |           |       |       |       |
| Over rear                           |      | Full 360° |       |      | Over rear  |       | Full 360° |       |       | Over rear                          |     | Full 360° |     |      | Over rear |       | Full 360° |       |       | Over rear  |       | Full 360° |     |     | Over rear  |      | Full 360° |       |       | Over rear |       | Full 360° |       |       |       |
| ft                                  | °    | lbs       | lbs   | lbs  | °          | lbs   | lbs       | lbs   | °     | lbs                                | lbs | lbs       | ft  | °    | lbs       | lbs   | lbs       | °     | lbs   | lbs        | °     | lbs       | lbs | lbs | ft         | °    | lbs       | lbs   | lbs   | °         | lbs   | lbs       | lbs   |       |       |
| 35                                  | 78   | 5,400     | 5,400 | -    | -          | -     | -         | -     | -     | -                                  | -   | -         | 40  | 78   | 4,300     | 4,300 | -         | -     | -     | -          | -     | -         | -   | -   | 40         | 78   | 4,300     | 4,300 | -     | -         | -     | -         | -     |       |       |
| 40                                  | 76.5 | 5,400     | 5,400 | 79.5 | 5,400      | 5,400 | -         | -     | -     | -                                  | -   | -         | 45  | 76.5 | 4,300     | 4,300 | -         | -     | -     | -          | -     | -         | -   | -   | 45         | 76.5 | 4,300     | 4,300 | -     | -         | -     | -         | -     |       |       |
| 45                                  | 75   | 5,400     | 5,400 | 78   | 5,400      | 5,400 | -         | -     | -     | -                                  | -   | -         | 50  | 75   | 4,300     | 4,300 | 79.5      | 4,300 | 4,300 | -          | -     | -         | -   | -   | 50         | 75   | 4,300     | 4,300 | 79.5  | 4,300     | 4,300 | -         | -     | -     |       |
| 50                                  | 73.5 | 5,400     | 5,400 | 76.5 | 5,400      | 5,400 | 79        | 5,400 | 5,400 | -                                  | -   | -         | 55  | 73.5 | 4,300     | 4,300 | 78        | 4,300 | 4,300 | -          | -     | -         | -   | -   | 55         | 73.5 | 4,300     | 4,300 | 78    | 4,300     | 4,300 | -         | -     | -     |       |
| 55                                  | 72   | 5,400     | 5,400 | 74.5 | 5,400      | 5,400 | 77        | 5,400 | 5,400 | -                                  | -   | -         | 60  | 72   | 4,300     | 4,300 | 76.5      | 4,300 | 4,300 | 79.5       | 3,700 | 3,700     | -   | -   | -          | 60   | 72        | 4,300 | 4,300 | 76.5      | 4,300 | 4,300     | 79.5  | 3,700 | 3,700 |
| 60                                  | 70   | 5,400     | 5,400 | 73   | 5,400      | 5,400 | 75        | 5,400 | 5,400 | -                                  | -   | -         | 65  | 70.5 | 4,300     | 4,300 | 75        | 4,300 | 4,300 | 78         | 3,590 | 3,590     | -   | -   | -          | 65   | 70.5      | 4,300 | 4,300 | 75        | 4,300 | 4,300     | 78    | 3,590 | 3,590 |
| 65                                  | 68.5 | 5,400     | 5,400 | 71   | 5,400      | 5,400 | 73        | 5,240 | 5,240 | -                                  | -   | -         | 70  | 69   | 4,300     | 4,300 | 73.5      | 4,230 | 4,230 | 76         | 3,490 | 3,490     | -   | -   | -          | 70   | 69        | 4,300 | 4,300 | 73.5      | 4,230 | 4,230     | 76    | 3,490 | 3,490 |
| 70                                  | 66.5 | 5,210     | 5,210 | 69   | 5,230      | 5,230 | 71.5      | 4,990 | 4,990 | -                                  | -   | -         | 75  | 67.5 | 4,300     | 4,300 | 71.5      | 4,080 | 4,080 | 74         | 3,390 | 3,390     | -   | -   | -          | 75   | 67.5      | 4,300 | 4,300 | 71.5      | 4,080 | 4,080     | 74    | 3,390 | 3,390 |
| 75                                  | 64.5 | 4,740     | 4,740 | 67   | 4,970      | 4,970 | 69.5      | 4,750 | 4,750 | -                                  | -   | -         | 80  | 66   | 4,240     | 4,240 | 70        | 3,930 | 3,930 | 72.5       | 3,300 | 3,300     | -   | -   | -          | 80   | 66        | 4,240 | 4,240 | 70        | 3,930 | 3,930     | 72.5  | 3,300 | 3,300 |
| 80                                  | 62.5 | 4,300     | 4,300 | 65   | 4,570      | 4,570 | 67.5      | 4,520 | 4,520 | -                                  | -   | -         | 85  | 64.5 | 4,030     | 4,030 | 68.5      | 3,760 | 3,760 | 70.5       | 3,220 | 3,220     | -   | -   | -          | 85   | 64.5      | 4,030 | 4,030 | 68.5      | 3,760 | 3,760     | 70.5  | 3,220 | 3,220 |
| 85                                  | 60.5 | 3,890     | 3,890 | 63   | 4,140      | 4,140 | 65        | 4,310 | 4,310 | -                                  | -   | -         | 90  | 63   | 3,740     | 3,740 | 66.5      | 3,590 | 3,590 | 69         | 3,140 | 3,140     | -   | -   | -          | 90   | 63        | 3,740 | 3,740 | 66.5      | 3,590 | 3,590     | 69    | 3,140 | 3,140 |
| 90                                  | 58   | 3,510     | 3,510 | 61   | 3,740      | 3,740 | 63        | 3,930 | 3,930 | -                                  | -   | -         | 95  | 61   | 3,430     | 3,430 | 64.5      | 3,420 | 3,420 | 67         | 3,070 | 3,070     | -   | -   | -          | 95   | 61        | 3,430 | 3,430 | 64.5      | 3,420 | 3,420     | 67    | 3,070 | 3,070 |
| 95                                  | 55.5 | 3,160     | 3,150 | 58.5 | 3,360      | 3,360 | 60.5      | 3,540 | 3,540 | -                                  | -   | -         | 100 | 59   | 3,120     | 3,120 | 62.5      | 3,270 | 3,270 | 65         | 3,000 | 3,000     | -   | -   | -          | 100  | 59        | 3,120 | 3,120 | 62.5      | 3,270 | 3,270     | 65    | 3,000 | 3,000 |
| 100                                 | 53   | 2,820     | 2,660 | 56   | 3,010      | 2,960 | 58        | 3,170 | 3,170 | -                                  | -   | -         | 105 | 57   | 2,840     | 2,820 | 60.5      | 3,100 | 3,100 | 63         | 2,940 | 2,940     | -   | -   | -          | 105  | 57        | 2,840 | 2,820 | 60.5      | 3,100 | 3,100     | 63    | 2,940 | 2,940 |
| 105                                 | 50.5 | 2,520     | 2,220 | 53.5 | 2,690      | 2,490 | 55.5      | 2,830 | 2,700 | -                                  | -   | -         | 110 | 54.5 | 2,560     | 2,420 | 58        | 2,810 | 2,810 | 61         | 2,880 | 2,880     | -   | -   | -          | 110  | 54.5      | 2,560 | 2,420 | 58        | 2,810 | 2,810     | 61    | 2,880 | 2,880 |
| 110                                 | 48   | 2,230     | 1,830 | 50.5 | 2,390      | 2,080 | 52.5      | 2,510 | 2,250 | -                                  | -   | -         | 115 | 52   | 2,310     | 2,060 | 56        | 2,540 | 2,420 | 58.5       | 2,720 | 2,710     | -   | -   | -          | 115  | 52        | 2,310 | 2,060 | 56        | 2,540 | 2,420     | 58.5  | 2,720 | 2,710 |
| 115                                 | 45.5 | 1,960     | 1,480 | 48   | 2,100      | 1,700 | 49.5      | 2,210 | 1,850 | -                                  | -   | -         | 120 | 49.5 | 2,070     | 1,740 | 53.5      | 2,280 | 2,070 | 56         | 2,450 | 2,320     | -   | -   | -          | 120  | 49.5      | 2,070 | 1,740 | 53.5      | 2,280 | 2,070     | 56    | 2,450 | 2,320 |
| 120                                 | 42.5 | 1,700     | 1,160 | 45   | 1,830      | 1,350 | 46.5      | 1,920 | 1,480 | -                                  | -   | -         | 125 | 47   | 1,840     | 1,440 | 51        | 2,040 | 1,740 | 53.5       | 2,190 | 1,970     | -   | -   | -          | 125  | 47        | 1,840 | 1,440 | 51        | 2,040 | 1,740     | 53.5  | 2,190 | 1,970 |
| 125                                 | 39.5 | 1,470     | 860   | 42   | 1,580      | 1,030 | 43        | 1,660 | 1,130 | -                                  | -   | -         | 130 | 44.5 | 1,630     | 1,170 | 48        | 1,810 | 1,440 | 50.5       | 1,940 | 1,640     | -   | -   | -          | 130  | 44.5      | 1,630 | 1,170 | 48        | 1,810 | 1,440     | 50.5  | 1,940 | 1,640 |
| 130                                 | 36.5 | 1,240     | -     | 38.5 | 1,350      | -     | 39.5      | 1,400 | -     | -                                  | -   | -         | 135 | 42   | 1,430     | 920   | 45.5      | 1,590 | 1,160 | 47.5       | 1,700 | 1,330     | -   | -   | -          | 135  | 42        | 1,430 | 920   | 45.5      | 1,590 | 1,160     | 47.5  | 1,700 | 1,330 |
| 135                                 | 32.5 | 1,030     | -     | 34.5 | 1,120      | -     | 35.5      | 1,160 | -     | -                                  | -   | -         | 140 | 39.5 | 1,240     | -     | 42.5      | 1,390 | 900   | 44.5       | 1,480 | 1,040     | -   | -   | -          | 140  | 39.5      | 1,240 | -     | 42.5      | 1,390 | 900       | 44.5  | 1,480 | 1,040 |
| 140                                 | 28.5 | 840       | -     | 30.5 | 910        | -     | 30.5      | 920   | -     | -                                  | -   | -         | 145 | 36.5 | 1,060     | -     | 39.5      | 1,190 | -     | 41         | 1,260 | 770       | -   | -   | -          | 145  | 36.5      | 1,060 | -     | 39.5      | 1,190 | -         | 41    | 1,260 | 770   |
|                                     |      |           |       |      |            |       |           |       |       |                                    |     |           | 150 | 33   | 900       | -     | 36        | 1,000 | -     | 37         | 1,050 | -         | -   | -   | 150        | 33   | 900       | -     | 36    | 1,000     | -     | 37        | 1,050 | -     |       |
|                                     |      |           |       |      |            |       |           |       |       |                                    |     |           | 155 | -    | -         | -     | 32        | 820   | -     | 32.5       | 850   | -         | -   | -   | 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

| 38.5 ft – 155.0 ft – 4 section |      |           |           | 23'-3" (7.07 m) |           |           |             | Fully Extended (100%) |           |             |           |           |             |           |           |
|--------------------------------|------|-----------|-----------|-----------------|-----------|-----------|-------------|-----------------------|-----------|-------------|-----------|-----------|-------------|-----------|-----------|
| 38.5 ft                        |      |           |           | 63.0 ft (A)     |           |           | 74.0 ft (B) |                       |           | 86.0 ft (C) |           |           | 97.0 ft (D) |           |           |
| ft                             | °    | Over rear | Full 360° | °               | Over rear | Full 360° | °           | Over rear             | Full 360° | °           | Over rear | Full 360° | °           | Over rear | Full 360° |
|                                |      | lbs       | lbs       |                 | lbs       | lbs       |             | lbs                   | lbs       |             | lbs       | lbs       |             | lbs       | 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     |

### Deductions from main boom capacities for stowed jibs

|           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>SJ</b> | 960 lbs   | 590 lbs   | 500 lbs   | 430 lbs   | 390 lbs   |
| <b>EJ</b> | 2,620 lbs | 2,270 lbs | 2,190 lbs | 2,130 lbs | 2,080 lbs |

| 109.0 ft (E) |      |           |           | 120.0 ft (F) |           |           | 132.0 ft (G) |           |           | 143.0 ft (H) |           |           | 155.0 ft (I) |           |           |
|--------------|------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|
| ft           | °    | Over rear | Full 360° | °            | Over rear | Full 360° | °            | Over rear | Full 360° | °            | Over rear | Full 360° | °            | Over rear | Full 360° |
|              |      | lbs       | lbs       |              | lbs       | lbs       |              | lbs       | lbs       |              | lbs       | lbs       |              | lbs       | lbs       |
| 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     | -         |

### Deductions from main boom capacities for stowed jibs

|           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>SJ</b> | 340 lbs   | 310 lbs   | 280 lbs   | 260 lbs   | 240 lbs   |
| <b>EJ</b> | 2,050 lbs | 2,020 lbs | 1,990 lbs | 1,970 lbs | 1,950 lbs |

**SJ** = Stowed jib · **EJ** = Erected jib

|   |            |
|---|------------|
| ↑ | Structural |
| ↓ | Stability  |

#### NOTES:

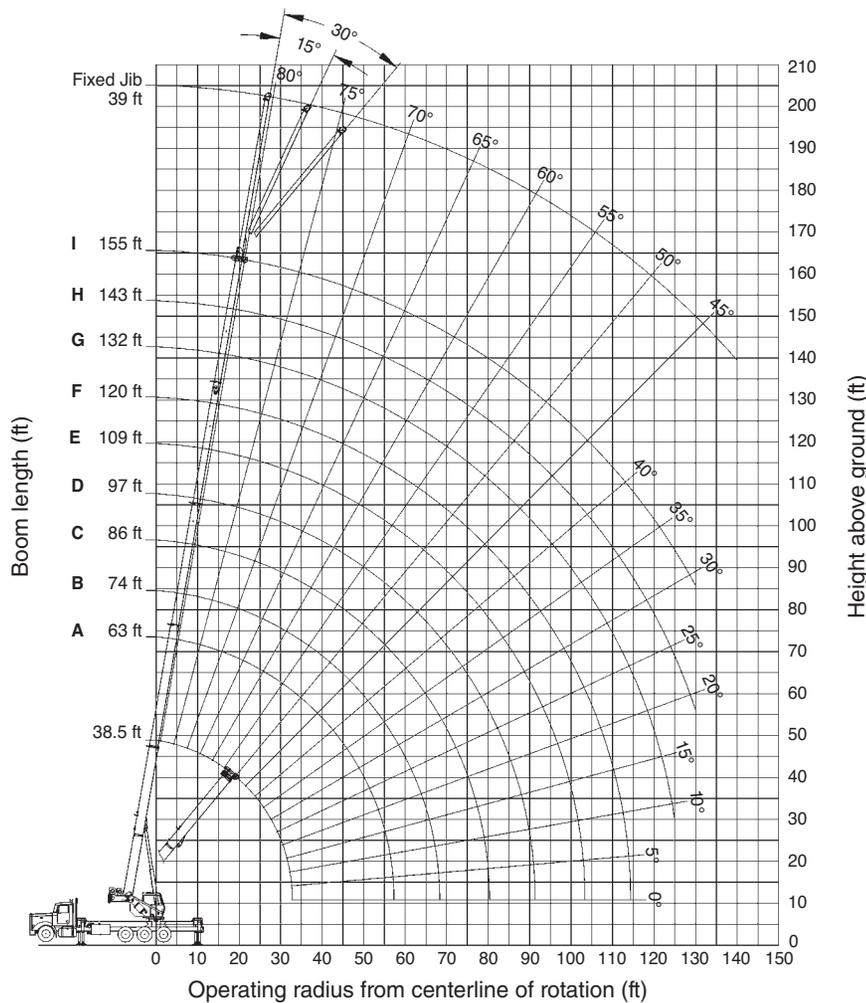
All "on outriggers" loads are based on 85% tipping  
 Loads based on crane on outriggers

Loads above heavy line are based on structural rating  
 Loads below heavy line are based on stability rating

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# 50155 Boom Diagram and Jib Load Capacities

## Main Boom Jib



23'-3" (7.07 m)

Fully Extended (100%)

### 39 ft fixed jib load capacities

| ft  | 0° Offset |           | 15° Offset |           | 30° Offset |           |
|-----|-----------|-----------|------------|-----------|------------|-----------|
|     | Over rear | Full 360° | Over rear  | Full 360° | Over rear  | Full 360° |
| 40  | 80        | 4,000     | 4,000      | -         | -          | -         |
| 45  | 78        | 4,000     | 4,000      | -         | -          | -         |
| 50  | 77.5      | 4,000     | 4,000      | 80        | 4,000      | 4,000     |
| 55  | 75.5      | 4,000     | 4,000      | 78        | 4,000      | 4,000     |
| 60  | 74        | 4,000     | 4,000      | 76.5      | 4,000      | 4,000     |
| 65  | 72.5      | 4,000     | 4,000      | 75        | 4,000      | 4,000     |
| 70  | 71        | 4,000     | 4,000      | 73.5      | 4,000      | 4,000     |
| 75  | 69.5      | 4,000     | 4,000      | 72        | 4,000      | 4,000     |
| 80  | 68        | 4,000     | 4,000      | 71        | 3,940      | 3,940     |
| 85  | 66.5      | 3,860     | 3,360      | 69.5      | 3,780      | 3,780     |
| 90  | 65        | 3,720     | 2,750      | 67.5      | 3,630      | 3,350     |
| 95  | 63.5      | 3,430     | 2,210      | 66        | 3,480      | 2,760     |
| 100 | 61.5      | 3,150     | 1,740      | 64.5      | 3,340      | 2,250     |
| 105 | 60        | 2,880     | 1,310      | 62.5      | 3,180      | 1,780     |
| 110 | 58        | 2,610     | 930        | 61        | 2,880      | 1,370     |
| 115 | 56        | 2,360     | -          | 59        | 2,610      | 990       |
| 120 | 54.5      | 2,130     | -          | 57        | 2,350      | -         |
| 125 | 52.5      | 1,840     | -          | 55        | 2,110      | -         |
| 130 | 50.5      | 1,490     | -          | 53        | 1,830      | -         |
| 135 | 48.5      | 1,160     | -          | 51        | 1,480      | -         |
| 140 | 46        | 860       | -          | 48.5      | 1,150      | -         |
| 145 | -         | -         | -          | 46.5      | 840        | -         |

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# 50155HL Load Chart

# Main Boom

| 38.5 ft – 155.0 ft – 4 section |      |           |           | 23'-3" (7.07 m) |           |           |             | Fully Extended (100%) |           |             |           |           |             |           |           |
|--------------------------------|------|-----------|-----------|-----------------|-----------|-----------|-------------|-----------------------|-----------|-------------|-----------|-----------|-------------|-----------|-----------|
| 38.5 ft                        |      |           |           | 63.0 ft (A)     |           |           | 74.0 ft (B) |                       |           | 86.0 ft (C) |           |           | 97.0 ft (D) |           |           |
| ft                             | °    | Over rear | Full 360° | °               | Over rear | Full 360° | °           | Over rear             | Full 360° | °           | Over rear | Full 360° | °           | Over rear | Full 360° |
|                                |      | lbs       | lbs       |                 | lbs       | lbs       |             | lbs                   | lbs       |             | lbs       | lbs       |             | lbs       | 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     |

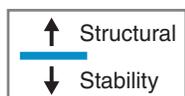
### Deductions from main boom capacities for stowed jibs

|           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>SJ</b> | 960 lbs   | 590 lbs   | 500 lbs   | 430 lbs   | 390 lbs   |
| <b>EJ</b> | 2,620 lbs | 2,270 lbs | 2,190 lbs | 2,130 lbs | 2,080 lbs |

| 109.0 ft (E) |      |           |           | 120.0 ft (F) |           |           | 132.0 ft (G) |           |           | 143.0 ft (H) |           |           | 155.0 ft (I) |           |           |
|--------------|------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|--------------|-----------|-----------|
| ft           | °    | Over rear | Full 360° | °            | Over rear | Full 360° | °            | Over rear | Full 360° | °            | Over rear | Full 360° | °            | Over rear | Full 360° |
|              |      | lbs       | lbs       |              | lbs       | lbs       |              | lbs       | lbs       |              | lbs       | lbs       |              | lbs       | lbs       |
| 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     | -         |

### Deductions from main boom capacities for stowed jibs

|           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>SJ</b> | 340 lbs   | 310 lbs   | 280 lbs   | 260 lbs   | 240 lbs   |
| <b>EJ</b> | 2,050 lbs | 2,020 lbs | 1,990 lbs | 1,970 lbs | 1,950 lbs |



### NOTES:

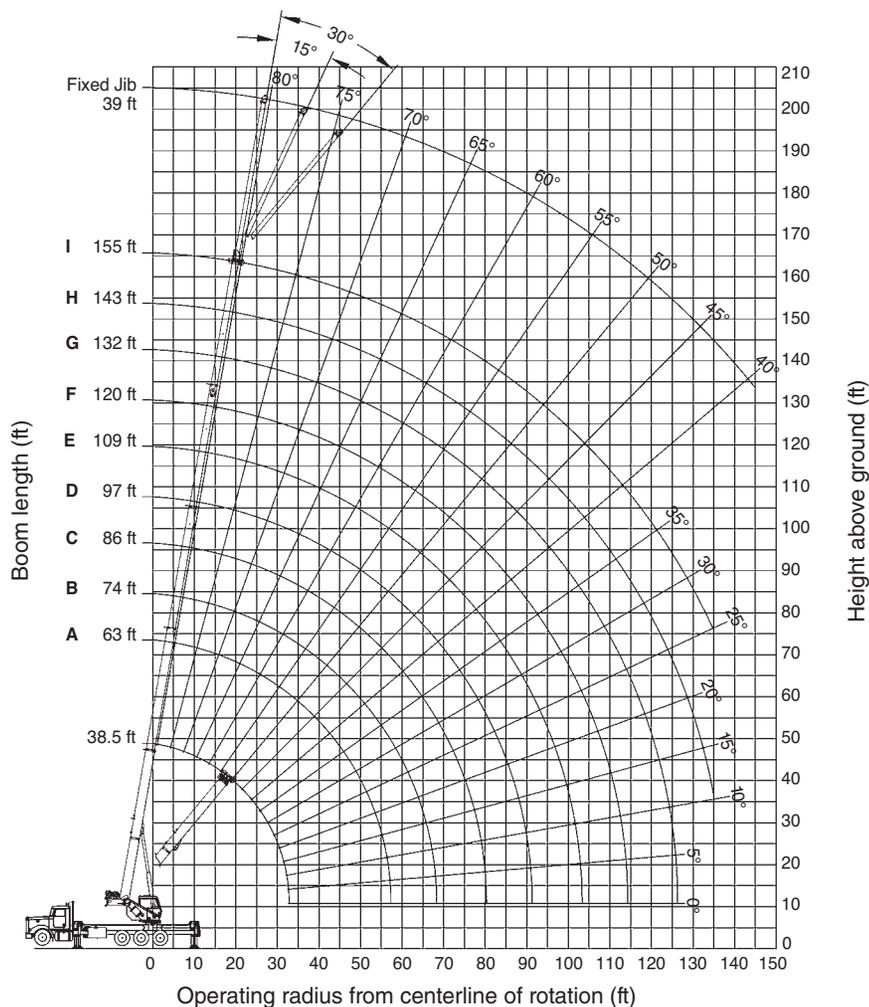
All "on outriggers" loads are based on 85% tipping  
 Loads based on crane on outriggers

**SJ** = Stowed jib · **EJ** = Erected jib  
 Loads above heavy line are based on structural rating  
 Loads below heavy line are based on stability rating

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

# 50155HL Boom Diagram and Jib Load Capacities

## Main Boom Jib



23'-3" (7.07 m)

Fully Extended (100%)

### 39 ft fixed jib load capacities

| ft  | 0° Offset |           | 15° Offset |           | 30° Offset |           |
|-----|-----------|-----------|------------|-----------|------------|-----------|
|     | Over rear | Full 360° | Over rear  | Full 360° | Over rear  | Full 360° |
| 40  | 80        | 4,000     | 4,000      | -         | -          | -         |
| 45  | 78        | 4,000     | 4,000      | -         | -          | -         |
| 50  | 77.5      | 4,000     | 4,000      | 80        | 4,000      | 4,000     |
| 55  | 75.5      | 4,000     | 4,000      | 78        | 4,000      | 4,000     |
| 60  | 74        | 4,000     | 4,000      | 76.5      | 4,000      | 4,000     |
| 65  | 72.5      | 4,000     | 4,000      | 75        | 4,000      | 4,000     |
| 70  | 71        | 4,000     | 4,000      | 73.5      | 4,000      | 4,000     |
| 75  | 69.5      | 4,000     | 4,000      | 72        | 4,000      | 4,000     |
| 80  | 68        | 4,000     | 4,000      | 71        | 3,940      | 3,940     |
| 85  | 66.5      | 3,860     | 3,360      | 69.5      | 3,780      | 3,780     |
| 90  | 65        | 3,720     | 3,720      | 67.5      | 3,630      | 3,630     |
| 95  | 63.5      | 3,430     | 3,240      | 66        | 3,480      | 3,480     |
| 100 | 61.5      | 3,150     | 2,700      | 64.5      | 3,340      | 3,210     |
| 105 | 60        | 2,880     | 2,230      | 62.5      | 3,180      | 2,700     |
| 110 | 58        | 2,610     | 1,800      | 61        | 2,880      | 2,230     |
| 115 | 56        | 2,360     | 1,410      | 59        | 2,610      | 1,810     |
| 120 | 54.5      | 2,130     | 1,060      | 57        | 2,350      | 1,430     |
| 125 | 52.5      | 1,900     | -          | 55        | 2,110      | 1,080     |
| 130 | 50.5      | 1,690     | -          | 53        | 1,880      | -         |
| 135 | 48.5      | 1,490     | -          | 51        | 1,660      | -         |
| 140 | 46        | 1,230     | -          | 48.5      | 1,460      | -         |
| 145 | 43.5      | 930       | -          | 46.5      | 1,200      | -         |
| 150 | -         | -         | -          | 44        | 890        | -         |

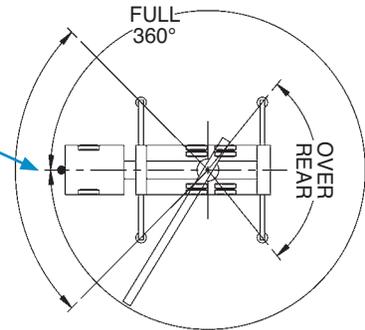
Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

# Area of Operation · LMI Operating Codes · Reeving Diagram

## 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.

If a front bumper stabilizer was not supplied, then the front tires must be in contact with the ground before working in this area.



## Deductions from rated loads for load handling devices supplied by Tadano

|                           |                                  |
|---------------------------|----------------------------------|
| 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.

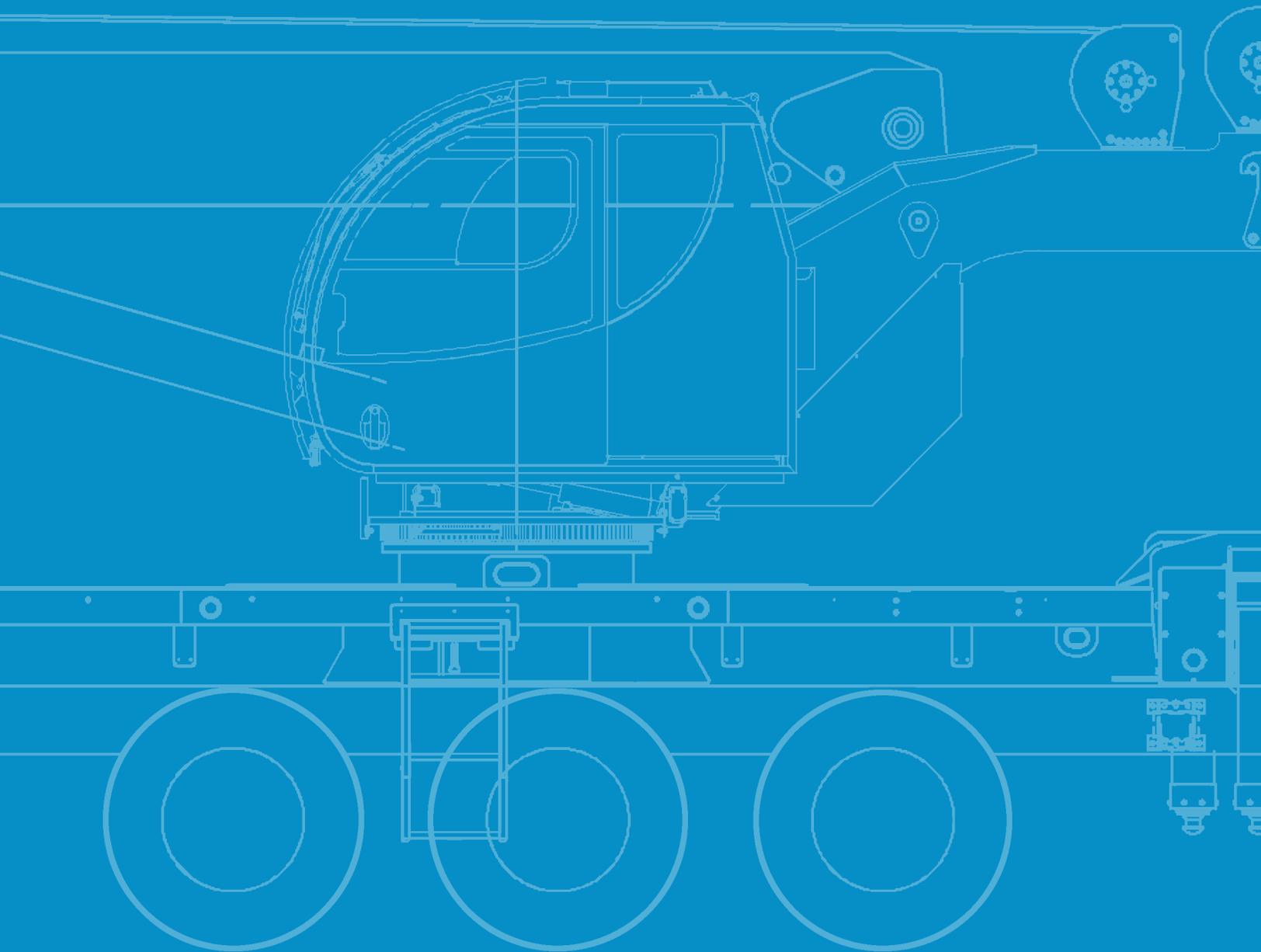
## LMI Operating Codes

| Code | Crane Configuration      | Outrigger Configuration | Area of Operation |
|------|--------------------------|-------------------------|-------------------|
| 3    | Main boom                | Fully extended          | Full 360°         |
| 5    | Main boom                | Fully retracted         | Full 360°         |
| 8    | Retracted jib 0° Offset  | Fully extended          | Full 360°         |
| 10   | Retracted jib 15° Offset | Fully extended          | Full 360°         |
| 12   | Retracted jib 30° Offset | Fully extended          | Full 360°         |

## 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><b>Anti-Two-Block System must be in good operating condition before operating crane.</b></p> <p><b>Refer to the owner's manual.</b></p> <p><b>Keep at least 3 wraps of load line on the drum at all times.</b></p> <p>5/8" 6 x 19 class (3.5 : 1 SF) 35,000 lbs min. breaking strength</p> <p>5/8" rot resistant (5 : 1 SF) 50,000 lbs min. breaking strength</p> |
|                     |             |             |             |             |             |             |             |             |              |  |
| 10,000 lbs          | 20,000 lbs  | 30,000 lbs  | 40,000 lbs  | 50,000 lbs  | 60,000 lbs  | 70,000 lbs  | 80,000 lbs  | 90,000 lbs  | 100,000 lbs  |  |

TC500.1



# Technical Description

## 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: 119.0 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  
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 Area Definition System.

HDRI – Hoist Drum Rotation Indicator

# Technical Description

## 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:  
Main winch 0.625 in. (15.9 mm) rotation resistant



Line length:  
5096 and 50110 400 ft (122 m)  
50128 and 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:  
7 t (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 gallons (435 l) – 155 gallons (587 l)  
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)

# Technical Description – Options

## Jibs

- 5096, 50110, 50128
- 2-section telescopic jib: 32 ft (9.7 m) to 49 ft (14.9 m)
- 50155
- 1-section fixed jib: 39 ft (11.8 m)

## Boom

### Max. Boom Length with Jib



- 5096
- Max. boom length with extension: 144.5 ft (44 m)
- 50110 & 50110HL
- Max. boom length with extension: 159 ft (48.5 m)
- 50128 & 50128HL
- Max. boom length with extension: 177 ft (53.9 m)
- 50155 & 50155HL
- Max. boom length with extension: 194 ft (59.1 m)

### Max. Boom Length with Minimum Extension



- 5096
- Max. boom length with extension retracted: 127.5 ft (38.9 m)
- 50110 & 50110HL
- Max. boom length with extension retracted: 142 ft (43.2 m)
- 50128 & 50128HL
- Max. boom length with extension retracted: 160 ft (48.8 m)
- 50155 & 50155HL
- Max. boom length with extension retracted: 155 ft (47.2 m)

## Boom

### Max. 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 with extension: 202.4 ft (61.7 m)
  - Max. tip height with extension retracted: No telescopic jib for 50155

# Technical Description – Options

## 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



Hydraulic hose reel for accessories – boom mounted  
Front Bumper Stabilizer

## Auxiliary Winch



Auxiliary winch bent axis 2-speed hydraulic motor (activated electrically)  
Third wrap limiter on both main and auxiliary winch

## Cab



Video camera (1 or 2)  
Cab weather band radio system  
Wireless wind speed indicator  
Cab step light  
Perimeter lighting  
Strobe light  
Cab go-light

## Operator Aids



4-function radio remote crane control system with joysticks (crane is radio remote ready)  
• 900 Mhz  
• 433 Mhz  
A92.2 Aerial lift manbasket dual rating  
Wired wind speed sensor

## 2-Person Basket



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

## Tool Boxes and 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 (1,219 mm L x 610 mm W x 610 mm H)
  - 48 " L x 24" W x 24" H – Aluminum (1,219 mm L x 610 mm W x 610 mm H)
- Top MTD swing door

### Platforms

- Wide platform option 102 in.

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Reaching new heights

