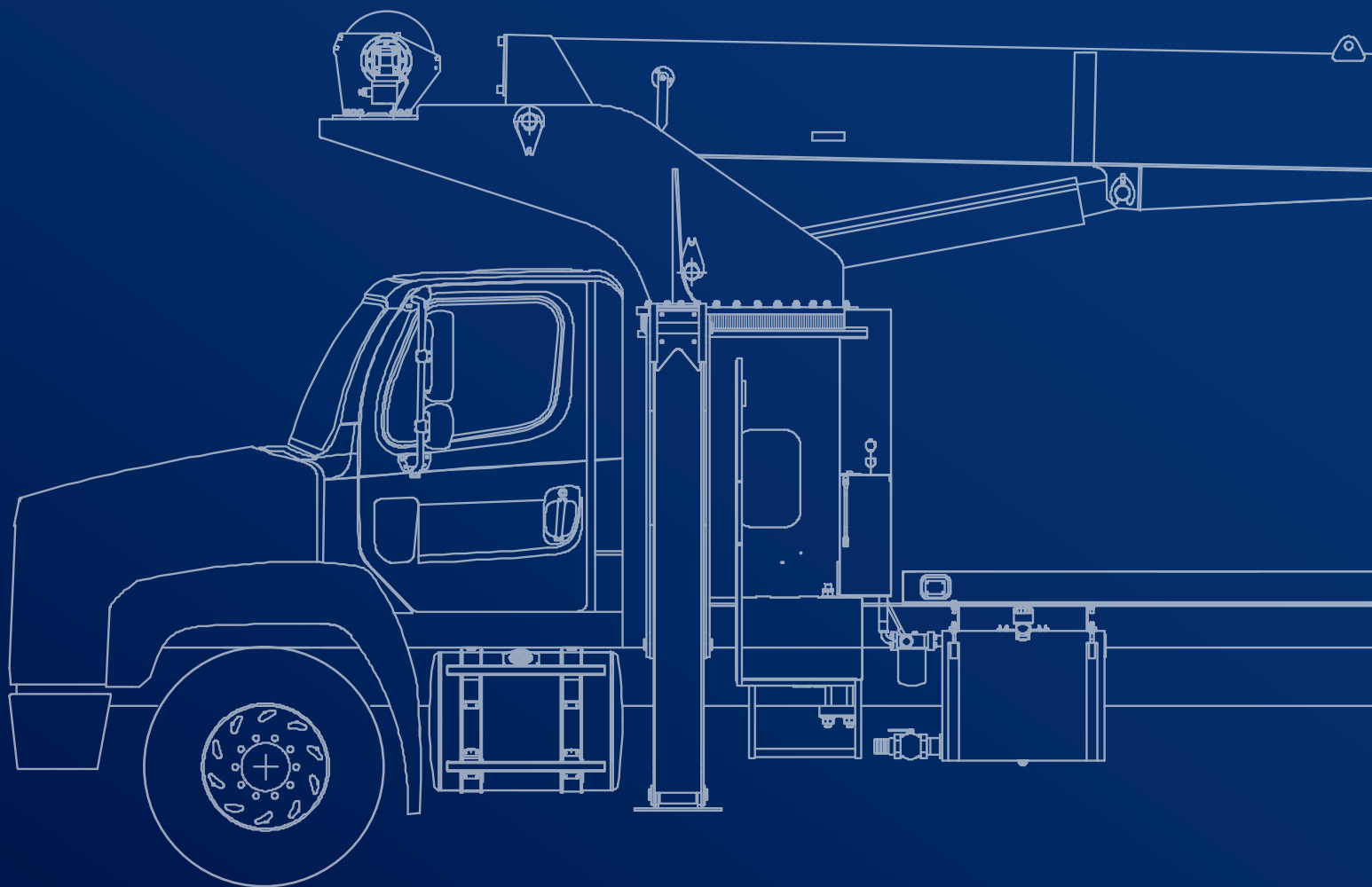


# **CM 300.1**

## **SERIES PRODUCT GUIDE**

### **30 TON (27 MT) TELESCOPIC CRANE**



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# Key

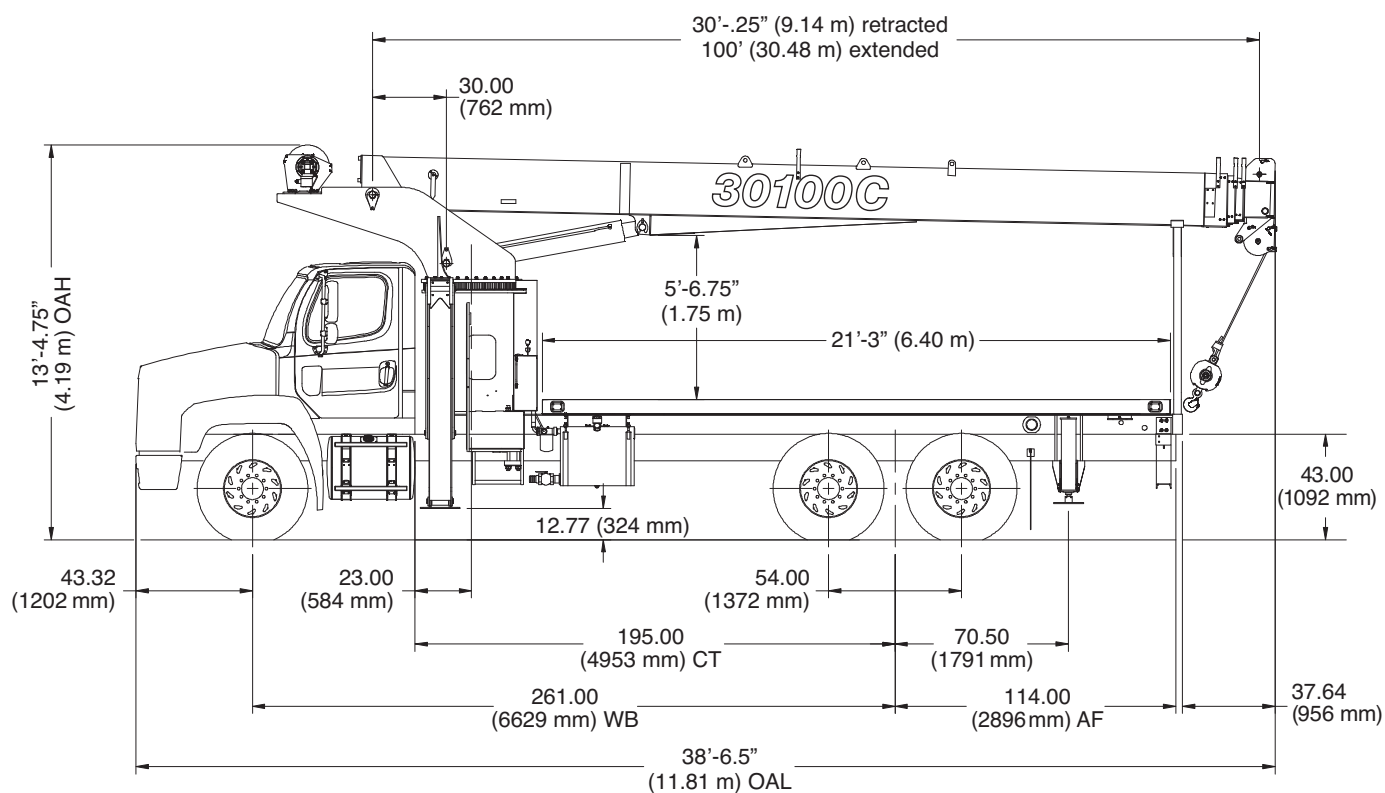
|                                                                                     |                                                             |                                                                                     |                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|
|    | 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      |
|  | A-Frame outriggers                                          |  | Main boom with auxiliary head         |
|  | 2-person man basket                                         |  | Tip height                            |
|  | Counterweight                                               |                                                                                     |                                       |

**CM 300.1**



## 30102C / 30100C Chassis Data

## 30100C – Dimensions



| Chassis Data                                               |                                                                          |
|------------------------------------------------------------|--------------------------------------------------------------------------|
| Model                                                      | 30102C / 30100C                                                          |
| Wheelbase (WB)                                             | 261 in. (6,629 mm)                                                       |
| Cab to tandem (CT)                                         | 195 in. (4,953 mm)                                                       |
| After frame (AF)                                           | 114 in. (2,896 mm)                                                       |
| Nominal frame width                                        | 34 in. (864 mm)                                                          |
| Frame section modulus at<br>180° / 360° area of operation* | 30 in <sup>3</sup> (491.6 cm <sup>3</sup> )<br>110,000 psi · 758,423 kPa |

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

| Truck Axle Weight                |                        |
|----------------------------------|------------------------|
| Front axle gross weight rating   | 18,000 lbs (8,165 kg)  |
| Rear axle gross weight rating    | 34,000 lbs (15,422 kg) |
| Min. truck axle weight – Front** | 8,400 lbs (3,810 kg)   |
| Min. truck axle weight – Rear**  | 8,400 lbs (3,810 kg)   |

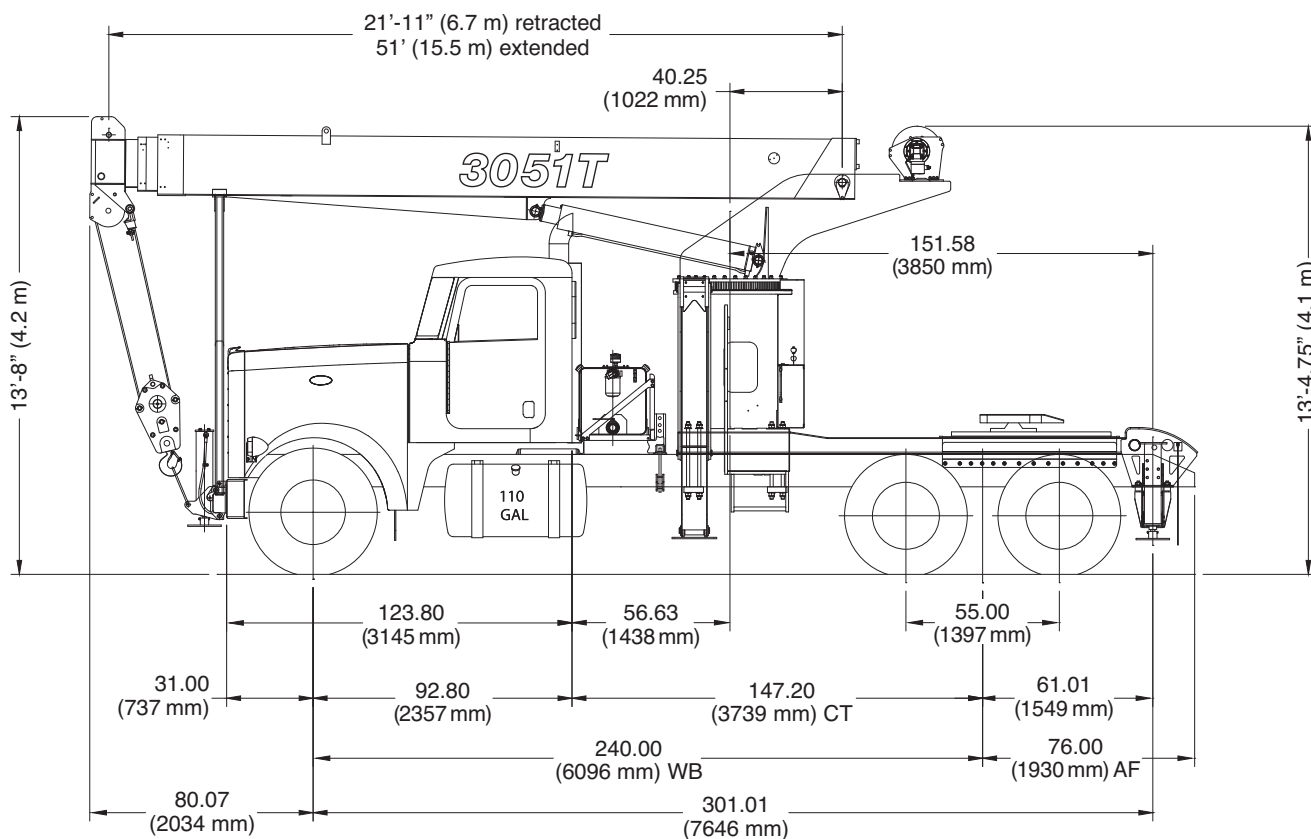
\*\* Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

| Crane Weight                                        |                        |
|-----------------------------------------------------|------------------------|
| Model                                               | 30102C / 30100C        |
| Total crane 30102C A-Frame                          | 22,212 lbs (10,075 kg) |
| Total crane 30102C Out & Down                       | 23,040 lbs (10,451 kg) |
| Total crane 30100C A-Frame                          | 22,485 lbs (10,199 kg) |
| Total crane 30100C Out & Down                       | 23,047 lbs (10,454 kg) |
| Flatbed 22 ft (6.7 m)                               | 2,552 lbs (1,144 kg)   |
| Fixed jib 26 ft (7.9 m)                             | 832 lbs (377 kg)       |
| Telescoping jib<br>26 ft (7.92 m) to 46 ft (14.0 m) | 1,220 lbs (553 kg)     |

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

# 3051T Chassis Data

## 3051T – Dimensions



### Chassis Data

| Model                                                   | 3051T                                                                    |
|---------------------------------------------------------|--------------------------------------------------------------------------|
| Wheelbase (WB)                                          | 240 in. (6,096 mm)                                                       |
| Cab to tandem (CT)                                      | 147.2 in. (3,739 mm)                                                     |
| After frame (AF)                                        | 76 in. (1,930 mm)                                                        |
| Nominal frame width                                     | 34 in. (864 mm)                                                          |
| Frame section modulus at 180° / 360° area of operation* | 30 in <sup>3</sup> (491.6 cm <sup>3</sup> )<br>110,000 psi · 758,423 kPa |

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

### Truck Axle Weight

|                                  |                        |
|----------------------------------|------------------------|
| Front axle gross weight rating   | 18,000 lbs (8,165 kg)  |
| Rear axle gross weight rating    | 34,000 lbs (15,422 kg) |
| Min. truck axle weight – Front** | 8,400 lbs (3,810 kg)   |
| Min. truck axle weight – Rear**  | 8,400 lbs (3,810 kg)   |

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

### Crane Weight

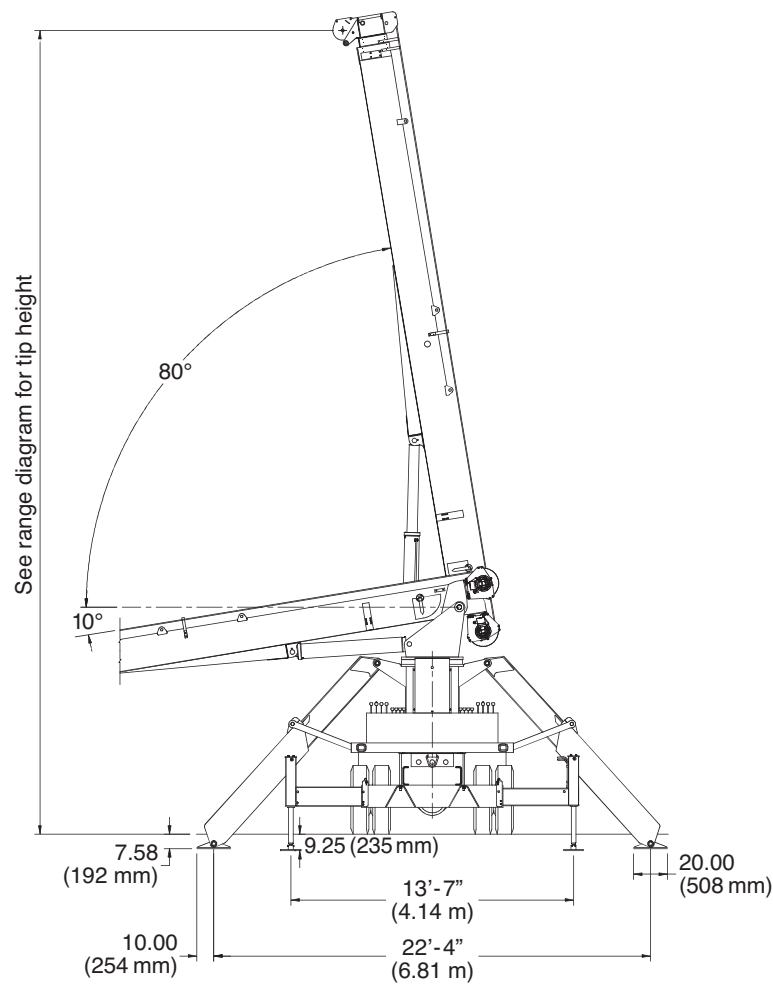
| Model                  | 3051T                 |
|------------------------|-----------------------|
| Total crane (standard) | 16,129 lbs (7,316 kg) |

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

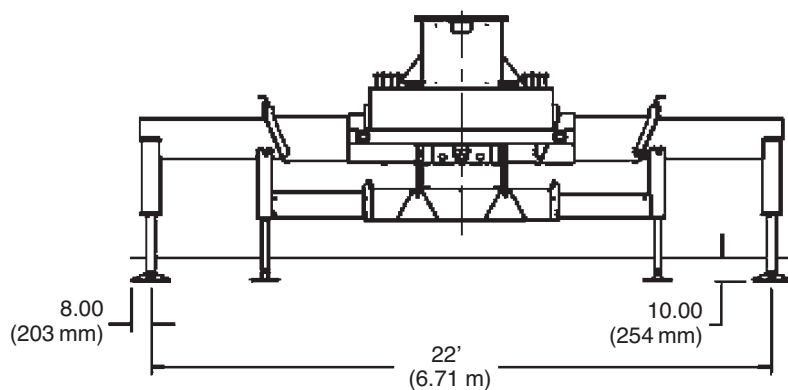
Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

# Outrigger Extension

## Standard Outrigger Stabilizer Combination – Fully Extended



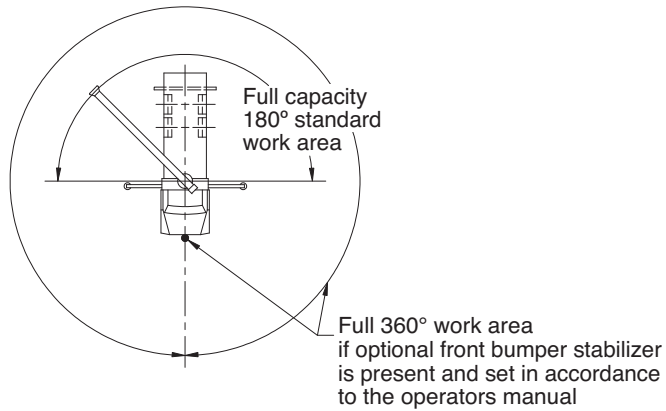
## Out and Down Outrigger Stabilizer Combination – Fully Extended (optional)



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

# Area of Operation · Reeving Diagram

## Area of Operation



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

|                  |                                   |
|------------------|-----------------------------------|
| Auxiliary block  | 50 lbs (22.7 kg)                  |
| Auxiliary sheave | 50 lbs (22.7 kg)                  |
| Overhaul ball    | See overhaul ball mfgr. nameplate |
| Load blocks      | See block mfgr. nameplate         |
| Hose reel        | 140 lbs (63.5 kg)                 |
| Swing-around jib | See load chart                    |

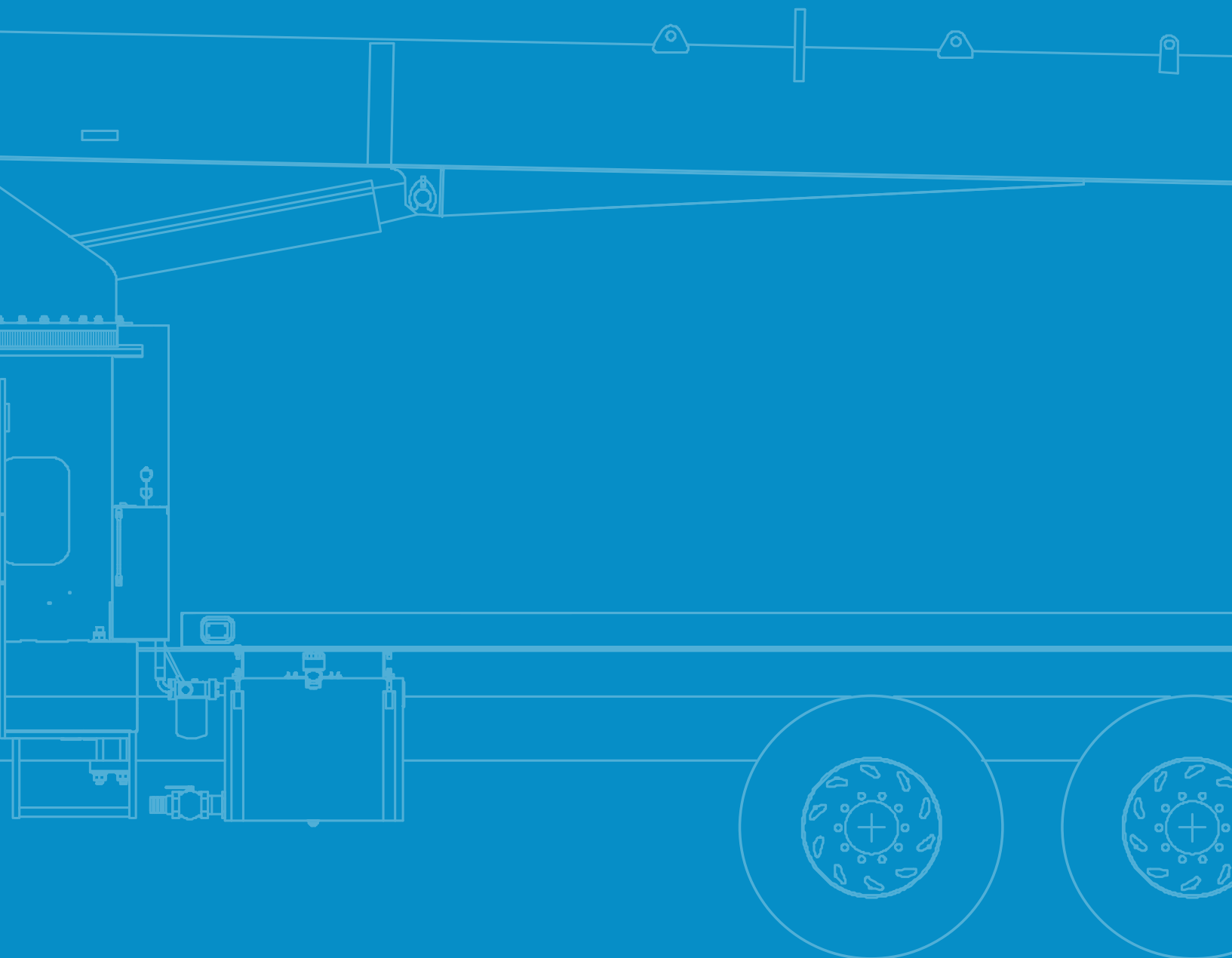
**WARNING:** Lifting off the main boom point while the jib is erected is not intended nor approved.

## Reeving Diagram

| Allowable Line Pull |             |             |             |             |             |             | <b>WARNING</b><br><br><b>Anti-Two-Block System must be in good operating condition before operating crane.</b><br><br><b>Refer to the owner's manual.</b><br><br><b>Keep at least 3 wraps of load line on the drum at all times.</b> |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 part line         | 2 part line | 3 part line | 4 part line | 5 part line | 6 part line | 7 part line |                                                                                                                                                                                                                                      |
|                     |             |             |             |             |             |             |                                                                                                                                                                                                                                      |
| 8,500 lbs           | 17,000 lbs  | 25,500 lbs  | 34,000 lbs  | 42,500 lbs  | 51,000 lbs  | 60,000 lbs  | 9/16" 6 x 25 IWRC (3.5 : 1 SF) 29,750 lbs min. breaking strength<br><br>9/16" rot resistant (5.0 : 1 SF) 38,500 lbs min. breaking strength                                                                                           |
| 7,700 lbs           | 15,400 lbs  | 23,100 lbs  | 30,800 lbs  | 38,500 lbs  | 46,200 lbs  | 53,900 lbs  |                                                                                                                                                                                                                                      |

## Notes

CM 300.1



## Main Boom Jib

## A-Frame Outriggers

| 30.5 ft – 102 ft – 4 section |    |               |           |               | 372° non-continuous |               |           |               |           | 22.3 ft (6.8 m) |           |               |           |               |            |        |    |
|------------------------------|----|---------------|-----------|---------------|---------------------|---------------|-----------|---------------|-----------|-----------------|-----------|---------------|-----------|---------------|------------|--------|----|
| 30.5 ft                      |    |               | 42 ft (A) |               | 52 ft (B)           |               | 62 ft (C) |               | 72 ft (D) |                 | 82 ft (E) |               | 92 ft (F) |               | 102 ft (G) |        |    |
| Load capacity                |    | Load capacity |           | Load capacity |                     | Load capacity |           | Load capacity |           | Load capacity   |           | Load capacity |           | Load capacity |            |        |    |
| ft                           | °  | lbs           | °         | lbs           | °                   | lbs           | °         | lbs           | °         | lbs             | °         | lbs           | °         | lbs           | ft         |        |    |
| 5                            | 77 | 60,000        | -         | -             | -                   | -             | -         | -             | -         | -               | -         | -             | -         | -             | 5          |        |    |
| 8                            | 71 | 38,600        | -         | -             | -                   | -             | -         | -             | -         | -               | -         | -             | -         | -             | 8          |        |    |
| 10                           | 67 | 33,600        | 73        | 25,000        | 77                  | 25,000        | -         | -             | -         | -               | -         | -             | -         | -             | 10         |        |    |
| 12                           | 62 | 29,620        | 71        | 25,000        | 75                  | 25,000        | 78        | 25,000        | -         | -               | -         | -             | -         | -             | 12         |        |    |
| 15                           | 55 | 25,510        | 66        | 23,570        | 71                  | 22,450        | 75        | 21,640        | 78        | 19,660          | 80        | 16,460        | -         | -             | 15         |        |    |
| 20                           | 42 | 20,200        | 58        | 18,740        | 65                  | 17,730        | 70        | 17,340        | 74        | 16,760          | 76        | 14,330        | 79        | 12,180        | 80         | 10,300 | 20 |
| 25                           | 24 | 15,980        | 50        | 15,770        | 59                  | 14,910        | 65        | 14,220        | 69        | 13,670          | 73        | 12,570        | 75        | 10,870        | 77         | 9,390  | 25 |
| 30                           | -  | -             | 39        | 13,220        | 52                  | 12,620        | 60        | 12,020        | 65        | 11,510          | 69        | 11,100        | 72        | 9,590         | 74         | 8,500  | 30 |
| 35                           | -  | -             | 26        | 10,380        | 44                  | 10,630        | 54        | 10,360        | 60        | 9,910           | 65        | 9,530         | 69        | 8,500         | 71         | 7,630  | 35 |
| 40                           | -  | -             | -         | -             | 35                  | 8,220         | 48        | 8,360         | 55        | 8,460           | 61        | 8,530         | 66        | 7,790         | 68         | 6,840  | 40 |
| 45                           | -  | -             | -         | -             | 23                  | 6,500         | 41        | 6,650         | 50        | 6,750           | 57        | 6,810         | 62        | 6,860         | 65         | 5,920  | 45 |
| 50                           | -  | -             | -         | -             | -                   | -             | 33        | 5,370         | 45        | 5,470           | 52        | 5,540         | 58        | 5,580         | 62         | 5,190  | 50 |
| 55                           | -  | -             | -         | -             | -                   | -             | 22        | 4,380         | 38        | 4,480           | 47        | 4,540         | 54        | 4,590         | 58         | 4,570  | 55 |
| 60                           | -  | -             | -         | -             | -                   | -             | -         | -             | 31        | 3,690           | 42        | 3,750         | 49        | 3,800         | 55         | 3,840  | 60 |
| 65                           | -  | -             | -         | -             | -                   | -             | -         | -             | 20        | 3,030           | 36        | 3,110         | 45        | 3,160         | 51         | 3,190  | 65 |
| 70                           | -  | -             | -         | -             | -                   | -             | -         | -             | -         | -               | 28        | 2,570         | 40        | 2,620         | 47         | 2,660  | 70 |
| 75                           | -  | -             | -         | -             | -                   | -             | -         | -             | -         | -               | 20        | 2,110         | 34        | 2,160         | 43         | 2,200  | 75 |
| 80                           | -  | -             | -         | -             | -                   | -             | -         | -             | -         | -               | -         | -             | 28        | 1,770         | 38         | 1,810  | 80 |
| 85                           | -  | -             | -         | -             | -                   | -             | -         | -             | -         | -               | -         | -             | 19        | 1,430         | 33         | 1,470  | 85 |
| 90                           | -  | -             | -         | -             | -                   | -             | -         | -             | -         | -               | -         | -             | -         | -             | 27         | 1,180  | 90 |
| 95                           | -  | -             | -         | -             | -                   | -             | -         | -             | -         | -               | -         | -             | -         | -             | 18         | 910    | 95 |

### Deductions from main boom capacities for stowed jibs

|            |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>SFJ</b> | 500 lbs | 360 lbs | 290 lbs | 250 lbs | 210 lbs | 190 lbs | 170 lbs | 150 lbs |
| <b>STJ</b> | 740 lbs | 540 lbs | 440 lbs | 370 lbs | 320 lbs | 280 lbs | 250 lbs | 220 lbs |

**SFJ** = Stowed fixed jib · **STJ** = Stowed telescopic jib

**NOTES:**

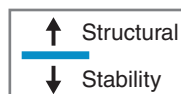
All loads rated at 360° pick

Loads based on crane on fully extended outriggers and stabilizers

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

Loads above heavy line are based on structural rating

Loads below heavy line are based on stability rating

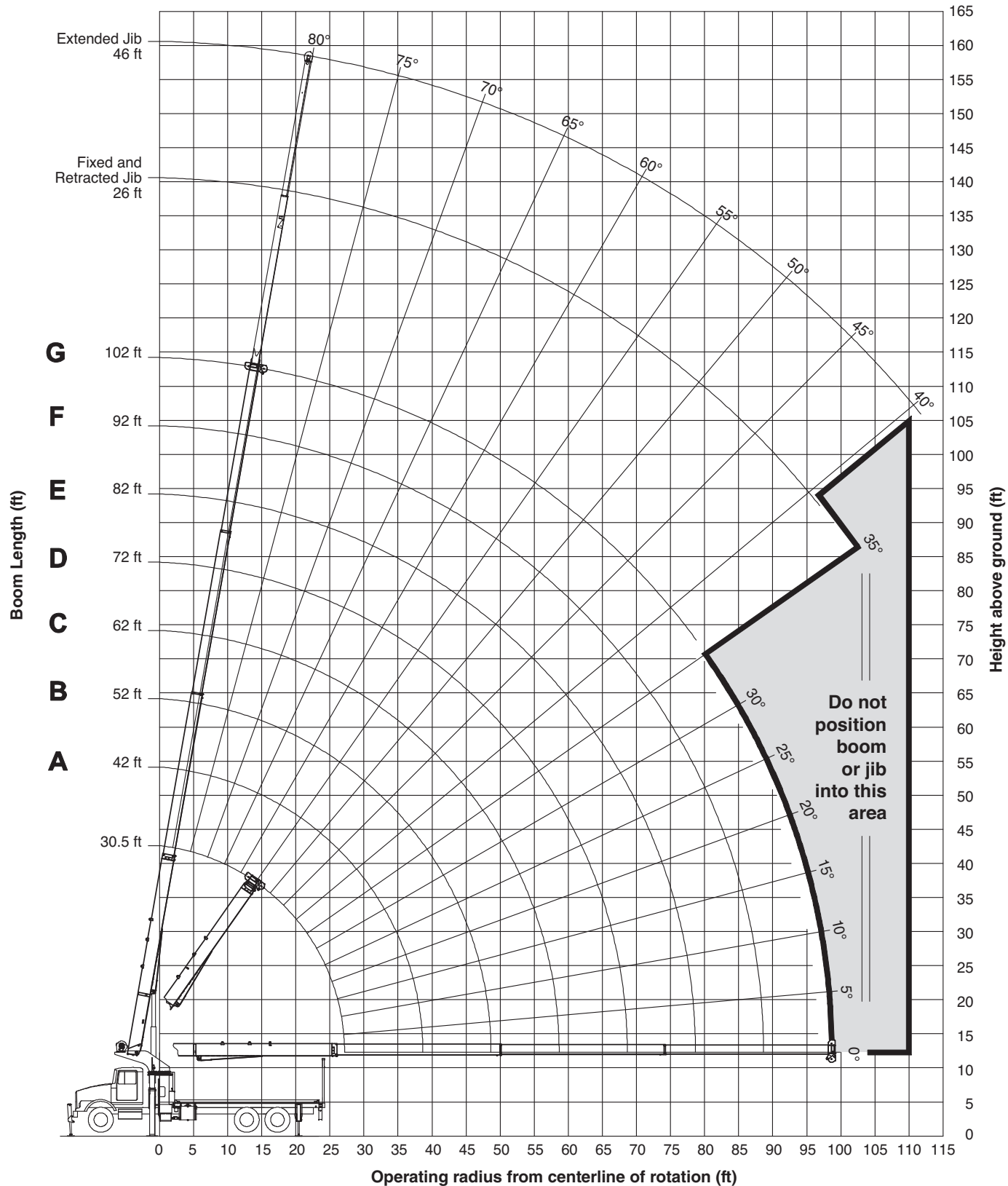


| Jib 26 ft – 46 ft                                                                   |                                                                                     |               |                                                                                     |               |                                                                                     |               | 372° non-continuous                                                                 |                                                                                     |               |                                                                                       |               |                                                                                       |               | 22.3 ft (6.8 m) |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|---------------|-----------------|--|
| Fixed Jib                                                                           |                                                                                     |               | Telescopic Jib                                                                      |               |                                                                                     |               | Fixed Jib                                                                           |                                                                                     |               | Telescopic Jib                                                                        |               |                                                                                       |               |                 |  |
| 26 ft                                                                               |                                                                                     |               | 26 ft                                                                               |               | 46 ft                                                                               |               | 26 ft                                                                               |                                                                                     |               | 26 ft                                                                                 |               | 46 ft                                                                                 |               |                 |  |
|  |  | Load capacity |  | Load capacity |  | Load capacity |  |  | Load capacity |  | Load capacity |  | Load capacity |                 |  |
| ft                                                                                  | °                                                                                   | lbs           | °                                                                                   | lbs           | °                                                                                   | lbs           | ft                                                                                  | °                                                                                   | lbs           | °                                                                                     | lbs           | °                                                                                     | lbs           |                 |  |
| 25                                                                                  | 80                                                                                  | 5,300         | 80                                                                                  | 5,100         | -                                                                                   | -             | 70                                                                                  | 59                                                                                  | 2,570         | 59                                                                                    | 2,220         | 65                                                                                    | 2,440         |                 |  |
| 30                                                                                  | 78                                                                                  | 5,300         | 78                                                                                  | 5,100         | 80                                                                                  | 3,050         | 75                                                                                  | 56                                                                                  | 2,280         | 56                                                                                    | 1,930         | 63                                                                                    | 2,060         |                 |  |
| 35                                                                                  | 76                                                                                  | 4,990         | 76                                                                                  | 4,730         | 78                                                                                  | 3,050         | 80                                                                                  | 53                                                                                  | 1,960         | 53                                                                                    | 1,660         | 60                                                                                    | 1,850         |                 |  |
| 40                                                                                  | 74                                                                                  | 4,580         | 74                                                                                  | 4,310         | 77                                                                                  | 3,050         | 85                                                                                  | 50                                                                                  | 1,620         | 50                                                                                    | 1,320         | 58                                                                                    | 1,630         |                 |  |
| 45                                                                                  | 72                                                                                  | 4,200         | 72                                                                                  | 3,920         | 75                                                                                  | 3,050         | 90                                                                                  | 47                                                                                  | 1,320         | 47                                                                                    | 1,020         | 55                                                                                    | 1,430         |                 |  |
| 50                                                                                  | 69                                                                                  | 3,850         | 69                                                                                  | 3,560         | 73                                                                                  | 3,050         | 95                                                                                  | 44                                                                                  | 1,060         | 44                                                                                    | 760           | 53                                                                                    | 1,240         |                 |  |
| 55                                                                                  | 67                                                                                  | 3,530         | 67                                                                                  | 3,240         | 71                                                                                  | 2,890         | 100                                                                                 | 40                                                                                  | 820           | 40                                                                                    | 520           | 50                                                                                    | 1,000         |                 |  |
| 60                                                                                  | 64                                                                                  | 3,240         | 64                                                                                  | 2,940         | 69                                                                                  | 2,660         | 105                                                                                 | 36                                                                                  | 610           | -                                                                                     | -             | 47                                                                                    | 790           |                 |  |
| 65                                                                                  | 62                                                                                  | 2,920         | 62                                                                                  | 2,560         | 67                                                                                  | 2,440         | 110                                                                                 | -                                                                                   | -             | -                                                                                     | -             | 44                                                                                    | 600           |                 |  |

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

# 30102C Boom Diagram

## Main Boom Jib



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

# 30100C Load Chart

# Main Boom Jib

## A-Frame Outriggers

| 30 ft – 100 ft – 4 section |               |               |               |               |               |               |               |               |    | 372° non-continuous | 22.3 ft (6.8 m) |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----|---------------------|-----------------|
|                            | 30 ft         | 40 ft (A)     | 50 ft (B)     | 60 ft (C)     | 70 ft (D)     | 80 ft (E)     | 90 ft (F)     | 100 ft (G)    |    |                     |                 |
|                            | Load capacity | Load capacity | Load capacity | Load capacity | Load capacity | Load capacity | Load capacity | Load capacity |    |                     |                 |
| ft                         | ° lbs         | ° lbs         | ° lbs         | ° lbs         | ° lbs         | ° lbs         | ° lbs         | ° lbs         | ft |                     |                 |
| 5                          | 77 60,000     | - -           | - -           | - -           | - -           | - -           | - -           | - -           | 5  |                     |                 |
| 8                          | 70.5 38,800   | - -           | - -           | - -           | - -           | - -           | - -           | - -           | 8  |                     |                 |
| 10                         | 66.5 33,900   | 73 25,000     | 77 25,000     | - -           | - -           | - -           | - -           | - -           | 10 |                     |                 |
| 12                         | 62 29,830     | 70 25,000     | 74.5 25,000   | 78 25,000     | - -           | - -           | - -           | - -           | 12 |                     |                 |
| 15                         | 55 25,700     | 65.5 23,930   | 71 22,710     | 75 21,850     | 77.5 20,190   | 79.5 16,860   | - -           | - -           | 15 |                     |                 |
| 20                         | 42 20,350     | 57 19,060     | 64.5 17,980   | 70 17,550     | 73.5 16,930   | 76 14,660     | 78.5 12,470   | 80 10,500     | 20 |                     |                 |
| 25                         | 22 15,880     | 47.5 16,030   | 58 15,140     | 64.5 14,410   | 69 13,840     | 72.5 12,850   | 75 11,080     | 77 9,580      | 25 |                     |                 |
| 30                         | - -           | 36 13,350     | 50.5 12,830   | 59 12,200     | 64.5 11,670   | 68.5 11,250   | 72 9,770      | 74 8,540      | 30 |                     |                 |
| 35                         | - -           | 19 10,360     | 42.5 10,630   | 53 10,530     | 60 10,060     | 65 9,670      | 68.5 8,630    | 71 7,770      | 35 |                     |                 |
| 40                         | - -           | - -           | 32.5 8,240    | 46.5 8,390    | 55 8,490      | 60.5 8,560    | 65.5 7,910    | 68 6,900      | 40 |                     |                 |
| 45                         | - -           | - -           | 17.5 6,520    | 39 6,690      | 49.5 6,780    | 56.5 6,850    | 61.5 6,900    | 65 6,000      | 45 |                     |                 |
| 50                         | - -           | - -           | - -           | 30 5,410      | 43.5 5,510    | 51.5 5,580    | 57.5 5,630    | 61.5 5,250    | 50 |                     |                 |
| 55                         | - -           | - -           | - -           | 16 4,410      | 36.5 4,520    | 46.5 4,590    | 53.5 4,640    | 58 4,630      | 55 |                     |                 |
| 60                         | - -           | - -           | - -           | - -           | 28 3,730      | 41 3,800      | 49 3,850      | 54.5 3,890    | 60 |                     |                 |
| 65                         | - -           | - -           | - -           | - -           | 15.5 3,080    | 35 3,160      | 44.5 3,210    | 50.5 3,250    | 65 |                     |                 |
| 70                         | - -           | - -           | - -           | - -           | - -           | 27 2,620      | 39 2,670      | 46.5 2,710    | 70 |                     |                 |
| 75                         | - -           | - -           | - -           | - -           | - -           | 15 2,160      | 33.5 2,220    | 42 2,260      | 75 |                     |                 |
| 80                         | - -           | - -           | - -           | - -           | - -           | - -           | 26 1,830      | 37.5 1,870    | 80 |                     |                 |
| 85                         | - -           | - -           | - -           | - -           | - -           | - -           | 14.5 1,480    | 32 1,530      | 85 |                     |                 |
| 90                         | - -           | - -           | - -           | - -           | - -           | - -           | - -           | 25 1,230      | 90 |                     |                 |
| 95                         | - -           | - -           | - -           | - -           | - -           | - -           | - -           | 14 960        | 95 |                     |                 |

## Deductions from main boom capacities for stowed jibs

|            |         |         |         |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>SFJ</b> | 490 lbs | 370 lbs | 300 lbs | 250 lbs | 210 lbs | 190 lbs | 170 lbs | 150 lbs |
| <b>STJ</b> | 730 lbs | 550 lbs | 440 lbs | 370 lbs | 320 lbs | 280 lbs | 250 lbs | 220 lbs |

**SFJ** = Stowed fixed jib · **STJ** = Stowed telescopic jib

## NOTES:

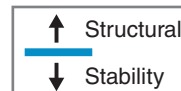
All loads rated at 360° pick

Loads based on crane on fully extended outriggers and stabilizers

All “on outriggers” loads are based on 85% tipping

Loads above heavy line are based on structural rating

Loads below heavy line are based on stability rating

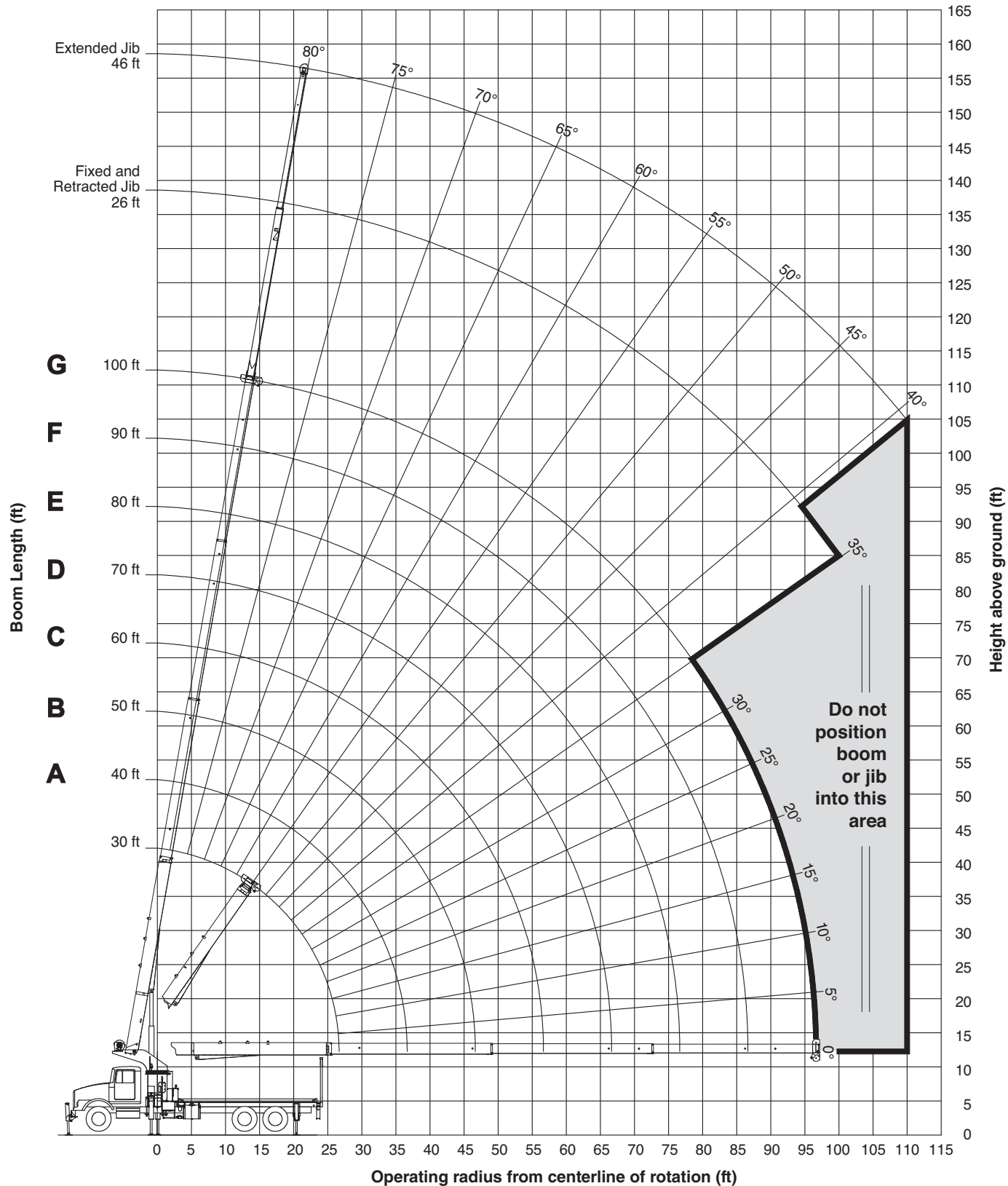


| Jib 26 ft – 46 ft |      |               |      |       |                |       |     |               |       | 372° non-continuous | 22.3 ft (6.8 m) |
|-------------------|------|---------------|------|-------|----------------|-------|-----|---------------|-------|---------------------|-----------------|
| Fixed Jib         |      |               |      |       | Telescopic Jib |       |     |               |       |                     |                 |
| 26 ft             |      |               |      |       | 26 ft          |       |     |               |       |                     |                 |
| ft                | °    | Load capacity | ft   | °     | Load capacity  | ft    | °   | Load capacity | ft    | °                   | Load capacity   |
| ft                | °    | lbs           | ft   | °     | lbs            | ft    | °   | lbs           | ft    | °                   | lbs             |
| 25                | 80   | 5,300         | 80   | 5,100 | -              | -     | 70  | 58.5          | 2,610 | 58.5                | 2,270           |
| 30                | 78   | 5,300         | 78   | 5,100 | 79.5           | 3,050 | 75  | 55.5          | 2,320 | 55.5                | 1,970           |
| 35                | 76   | 5,000         | 76   | 4,800 | 78             | 3,050 | 80  | 53            | 2,010 | 53                  | 1,710           |
| 40                | 73.5 | 4,650         | 73.5 | 4,380 | 76.5           | 3,050 | 85  | 49.5          | 1,670 | 49.5                | 1,380           |
| 45                | 71.5 | 4,250         | 71.5 | 3,980 | 74.5           | 3,050 | 90  | 46.5          | 1,370 | 46.5                | 1,080           |
| 50                | 69   | 3,890         | 69   | 3,610 | 73             | 3,050 | 95  | 43            | 1,110 | 43                  | 810             |
| 55                | 66.5 | 3,560         | 66.5 | 3,280 | 71             | 2,930 | 100 | 39            | 880   | 39                  | 580             |
| 60                | 64   | 3,270         | 64   | 2,980 | 69             | 2,690 | 105 | -             | -     | -                   | -               |
| 65                | 61.5 | 2,950         | 61.5 | 2,600 | 66.5           | 2,470 | 110 | -             | -     | -                   | -               |

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

# 30100C Boom Diagram

## Main Boom Jib



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

# 3051T Load Chart

## Main Boom

| 21.27 ft – 51 ft – 3 section                                                      |                                                                                            |               |                                                                                             |               |                                                                                             | 372° non-continuous |                                                                                             |               |                                                                                             |               |                                                                                               | 22.3 ft (6.8 m) |                                                                                               |               |                                                                                     |  |  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|--|--|
|  |  21.27 ft |               |  26 ft (A) |               |  31 ft (B) |                     |  36 ft (C) |               |  41 ft (D) |               |  46 ft (E) |                 |  51 ft (F) |               |  |  |  |
|                                                                                   |           | Load capacity |            | Load capacity |            | Load capacity       |            | Load capacity |            | Load capacity |            | Load capacity   |            | Load capacity |                                                                                     |  |  |
| ft                                                                                | °                                                                                          | lbs           | °                                                                                           | lbs           | °                                                                                           | lbs                 | °                                                                                           | lbs           | °                                                                                           | lbs           | °                                                                                             | lbs             | °                                                                                             | lbs           | ft                                                                                  |  |  |
| 5                                                                                 |                                                                                            | 70 60,000     | -                                                                                           | -             | -                                                                                           | -                   | -                                                                                           | -             | -                                                                                           | -             | -                                                                                             | -               | -                                                                                             | -             | 5                                                                                   |  |  |
| 8                                                                                 |                                                                                            | 60.5 43,700   | 66.5 41,700                                                                                 | 71 40,100     | 74 38,900                                                                                   | 76.5 38,000         |                                                                                             |               |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 8                                                                                   |  |  |
| 10                                                                                |                                                                                            | 54 38,200     | 61.5 36,400                                                                                 | 67 35,200     | 70.5 34,100                                                                                 | 73.5 33,200         | 75.5 32,200                                                                                 | 77 28,520     |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 10                                                                                  |  |  |
| 12                                                                                |                                                                                            | 47 34,300     | 56.5 32,700                                                                                 | 62.5 31,200   | 67 30,100                                                                                   | 70.5 29,250         | 73 28,540                                                                                   | 75 25,800     |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 12                                                                                  |  |  |
| 14                                                                                |                                                                                            | 38.5 30,700   | 50.5 29,440                                                                                 | 58.5 28,160   | 63.5 27,110                                                                                 | 67.5 26,640         | 70.5 25,940                                                                                 | 72.5 23,780   |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 14                                                                                  |  |  |
| 16                                                                                |                                                                                            | 27.5 27,160   | 44.5 26,760                                                                                 | 53.5 25,990   | 60 25,010                                                                                   | 64 24,190           | 67.5 23,520                                                                                 | 70.5 21,820   |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 16                                                                                  |  |  |
| 18                                                                                |                                                                                            | - -           | 37.5 24,640                                                                                 | 49 23,840     | 56 22,960                                                                                   | 61 22,200           | 65 21,550                                                                                   | 68 20,190     |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 18                                                                                  |  |  |
| 20                                                                                |                                                                                            | - -           | 28.5 22,260                                                                                 | 43.5 21,980   | 52 21,230                                                                                   | 57.5 20,530         | 62 19,910                                                                                   | 65.5 18,520   |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 20                                                                                  |  |  |
| 25                                                                                |                                                                                            | - -           | - -                                                                                         | 26.5 17,760   | 40.5 17,770                                                                                 | 48.5 17,570         | 54.5 17,070                                                                                 | 58.5 15,410   |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 25                                                                                  |  |  |
| 30                                                                                |                                                                                            | - -           | - -                                                                                         | - -           | 24.5 13,170                                                                                 | 38 13,260           | 46 13,310                                                                                   | 51.5 12,950   |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 30                                                                                  |  |  |
| 35                                                                                |                                                                                            | - -           | - -                                                                                         | - -           | - -                                                                                         | 23 10,240           | 36 10,310                                                                                   | 44 10,350     |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 35                                                                                  |  |  |
| 40                                                                                |                                                                                            | - -           | - -                                                                                         | - -           | - -                                                                                         | - -                 | 22 8,270                                                                                    | 34.5 8,320    |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 40                                                                                  |  |  |
| 45                                                                                |                                                                                            | - -           | - -                                                                                         | - -           | - -                                                                                         | - -                 | - -                                                                                         | 21 6,860      |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 45                                                                                  |  |  |
| 50                                                                                |                                                                                            | - -           | - -                                                                                         | - -           | - -                                                                                         | - -                 | - -                                                                                         | - -           |                                                                                             |               |                                                                                               |                 |                                                                                               |               | 50                                                                                  |  |  |

### NOTES:

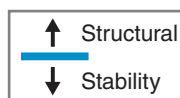
All loads rated at 360° pick

Loads based on crane on fully extended outriggers and stabilizers

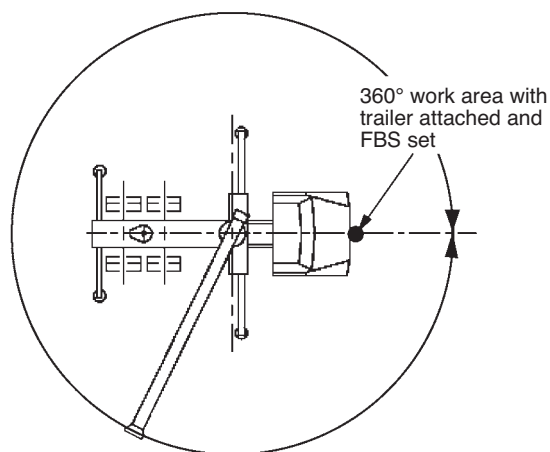
All "on outriggers" loads are based on 85% tipping

Loads above heavy line are based on structural rating

Loads below heavy line are based on stability rating

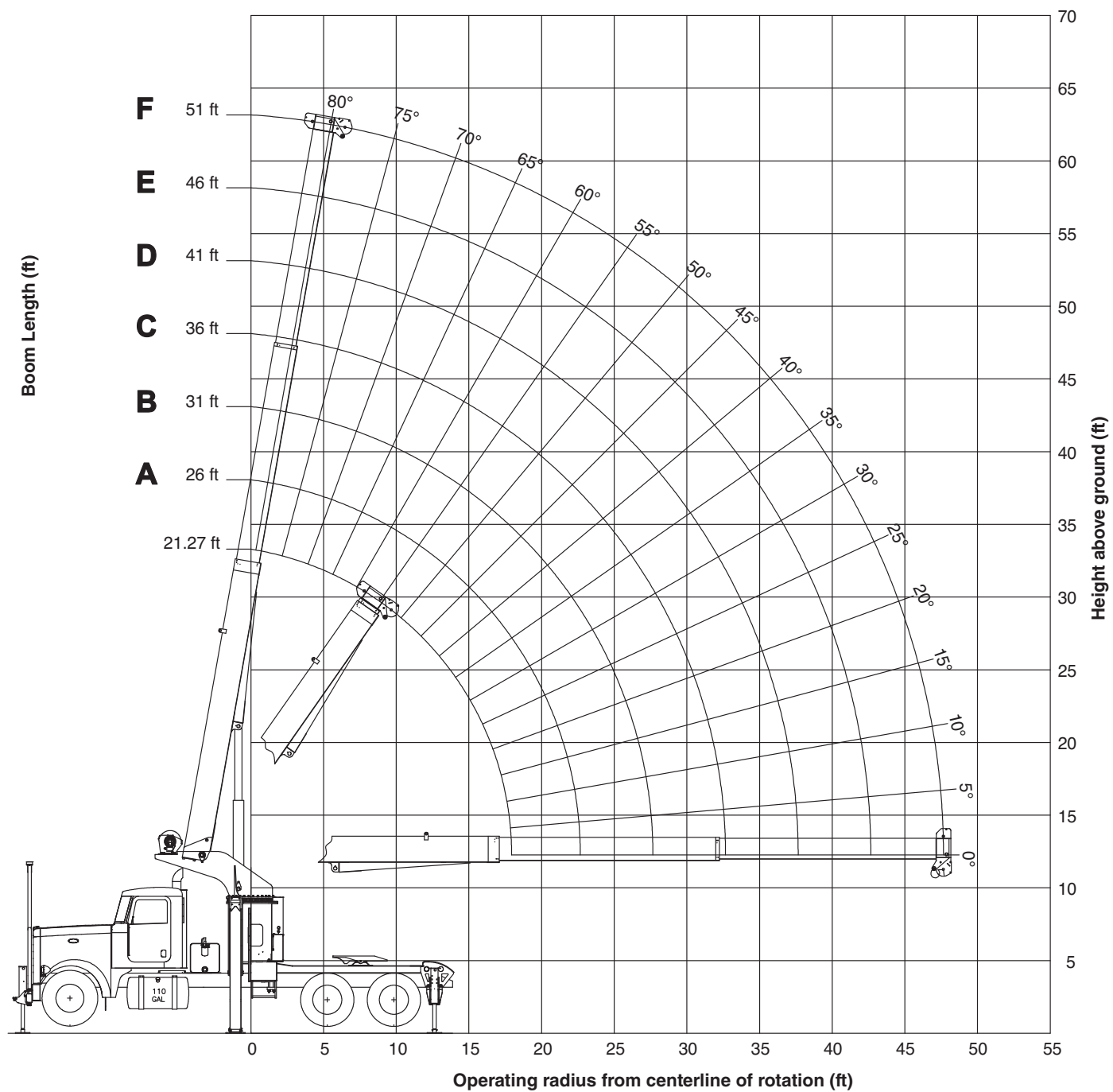


### Area of Operation



# 3051T Boom Diagram

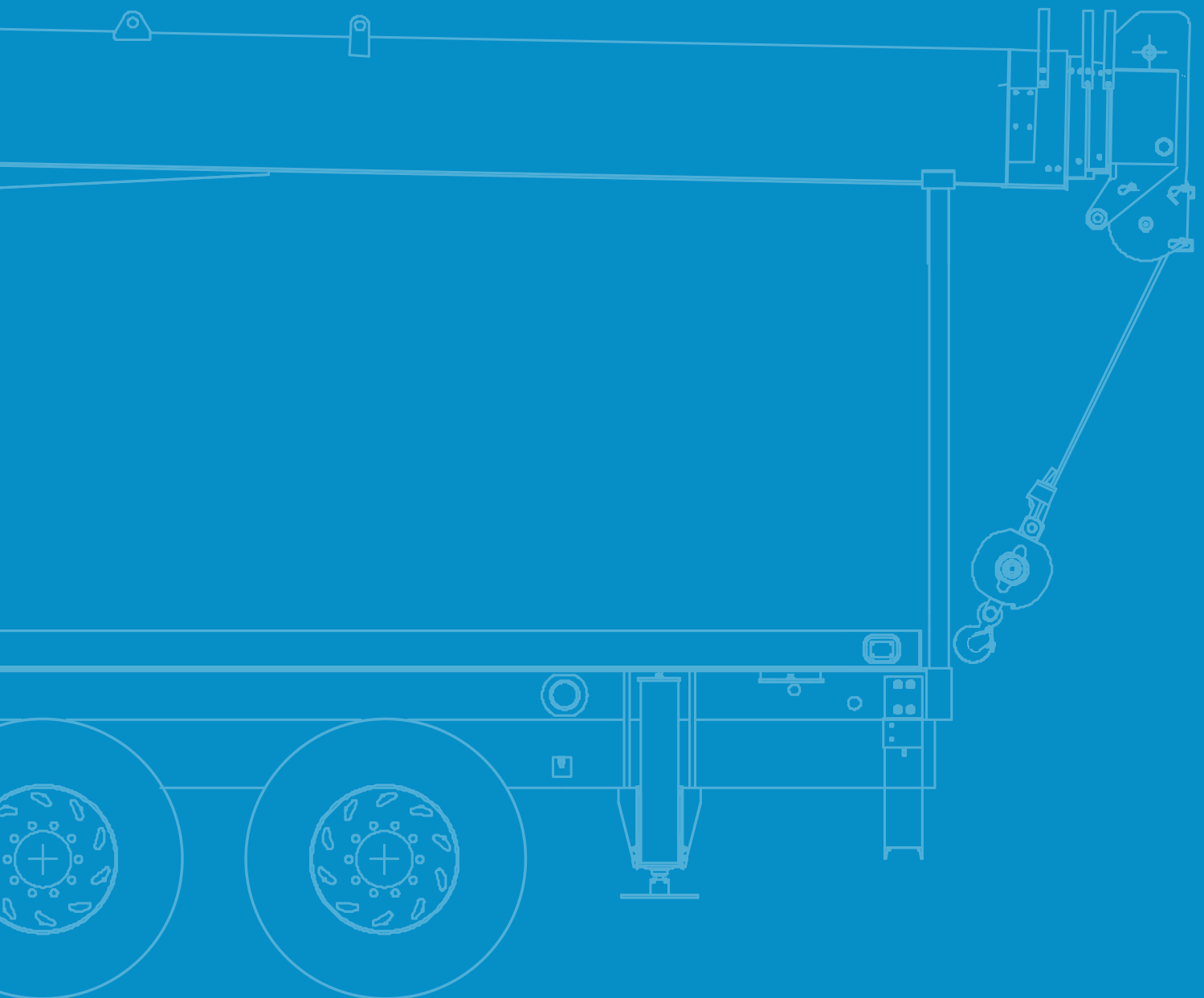
## Main Boom



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## Notes

CM 300.1



# Technical Description

## Boom



Boom length: Proportional boom

- 4-section 102 ft (31.1 m)
- 4-section 100 ft (30.4 m)
- 3-section 51 ft (15.5 m)

3-sheave quick reeve boom point

Self lubricating slider pads



30102C: • Boom length 102 ft (31.1 m)

• Boom max. tip height 112 ft (34.1 m)

30100C: • Boom length 100 ft (30.4 m)

• Boom max. tip height 110.6 ft (33.7 m)

3051T: • Boom length 51 ft (15.5 m)

• Boom max. tip height 62.3 ft (19.0 m)



Boom angle (min./max.):

-10° / 80.6°

## Rotation



Ball-bearing swing circle with external gear

Double-reduction planetary gearbox driven by hydraulic motor



Slewing brake:

Spring-applied pressure released parking brake



Slewing speed: 0 - 1.5 rpm

Boom rotation: 372° non-continuous

## Outriggers



Outriggers: A-frame style

FBS – Front Bumper Stabilizer (optional)

A-frame fully extended: 22.3 ft (6.8 m)

Stabilizers fully extended: 14.6 ft (4.4 m)

## Hoist, Rope and Hook



Maximum theoretical line speed:

300 fpm (91.4 mpm)



Bottom layer permissible line pull:

8,500 lbs (3,855.5 kg)



Main winch cable diameter: 0.5625 in. (14.3 mm)

rotation resistant



Line length: 335 ft (102.1 m)



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



Hook and ball:

7 t (6.4 mt) capacity hook with heavy-duty swivel and weight is provided for single line operation

# Technical Description

## Hydraulics



8-Bolt direct mounted PTO and SAE B input and SAE BB output  
3-section gear pump, SAE BB input (standard)  
Hydraulic reservoir capacity:  
70 gallons (284 l)  
Pump sections @ 2000 rpm with 100 psi

- Shaft end pump: 32.4 gpm (123 lpm)
- Center pump: 20.6 gpm (78 lpm)
- Cover end pump: 10 gpm (38 lpm)

## Operator Aids



Externally wired LMI with crane function cut-offs for overload protection  
Text display  
Event recorder  
Externally wired anti-two block system

## Control System



Dual operating stations are equipped with four single-lever crane controls arranged in accordance with ANSI B30.5 standards.  
Fully proportional control valves  
Each station includes:

- Individual control levers for each outrigger and stabilizer
- Engine start and stop
- Electronic foot throttle
- Signal horn
- Boom angle indicator
- Beverage holder
- Load chart with range diagram and mount for removable LMI display

## Electrical System

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

## Mounting System

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

# Technical Description – Options

## Outriggers



- Outriggers: Out and down style
- Fully extended: 22 ft (6.7 m)
- Stabilizer extended:
- Fully extended: 14.6 ft (4.4 m)

## Jib

- 30102C / 30100C:
- 1-section fixed jib: 26 ft (7.9 m)
  - 2-section telescopic jib: 26 ft (7.9 m) - 46 ft (14.0 m)



- 30102C:
- Max. tip height with extension: 157 ft (47.9 m)
- 30100C:
- Max. tip height with extension: 155 ft (47.2 m)



- 30102C:
- Max. tip height with extension retracted: 137 ft (41.8 m)
- 30100C:
- Max. tip height with extension retracted: 135 ft (41.1 m)

## Hoist, Rope and Hook



0.625 in. (15.9 mm) diameter 6 x 25 EIPS IWRC wire rope

## Hydraulics



3-section gear pump, SAE C input  
FBS – Front Bumper Stabilizer  
Hose reel – Boom mounted  
Hydraulic oil cooler

# Technical Description – Options

## 2-Person Basket



- 2-person man basket – Aluminum or steel – consult Tadano
- Non-rotating (600 lbs capacity) – Steel
  - Rotating (1,200 lbs capacity) – Aluminum – Main boom only

## Radio Remote



- 4-function radio remote crane control system
- 900 Mhz
  - 433 Mhz

## Tool Boxes and Bulkhead

### Tool Boxes

- 24 in. L x 18 in. W x 18 in. H ( 610 mm L x 457 mm W x 457 mm H) – Steel
- 48 in. L x 24 in. W x 24 in. H (1,219 mm L x 610 mm W x 610 mm H) – Aluminium

### Bulkhead:

- 24 in. (610 mm)

## Flatbeds

- 21 ft (6.4 m) Wood bed x 96 in. (2.44 m)
- 21 ft (6.4 m) Heavy hauler steel bed x 96 in. (2.44 m)

[www.tadano.com](http://www.tadano.com)

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Reaching new heights

