

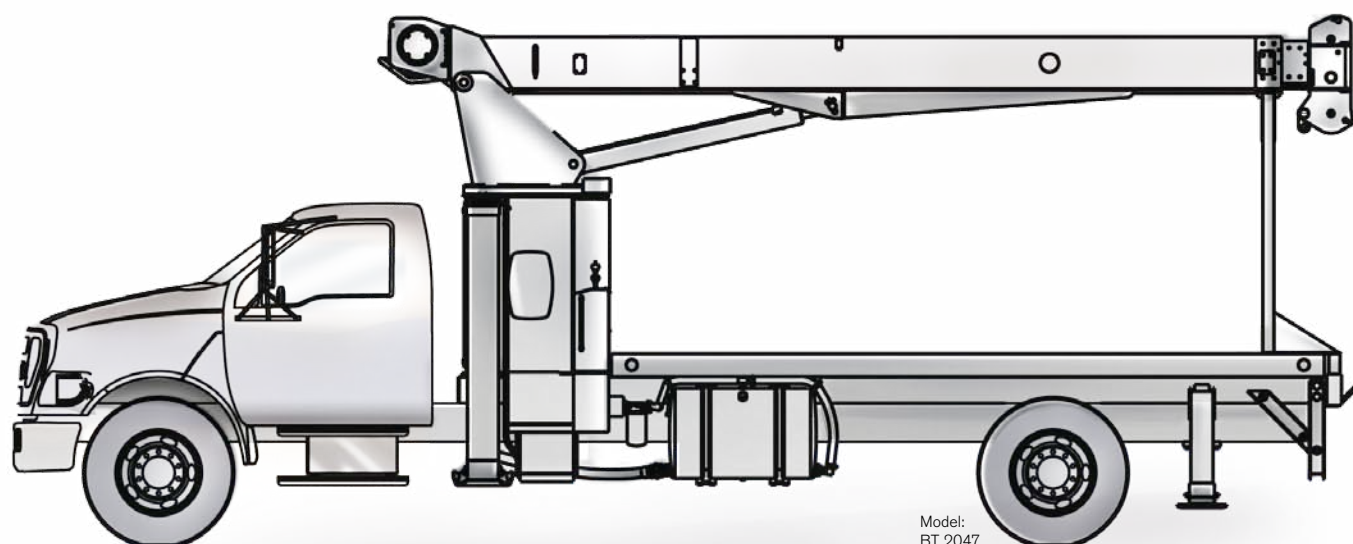


**BT 2047**  
**BT 2057**

**10 US<sup>t</sup> Lifting Capacity**  
**Boom Truck Cranes**  
**Datasheet**  
**Imperial**

# BT 2047

# BT 2057



#### Features: BT 2047

- ▶ 10 US<sup>t</sup> @ 5 ft capacity at rated distance from center of rotation
- ▶ 47 ft maximum boom length
- ▶ 56 ft 5 in maximum tip height
- ▶ 18–30 ft optional jib
- ▶ 85 ft 9 in maximum sheave height with 30 ft jib

#### Features: BT 2057

- ▶ 10 US<sup>t</sup> @ 5 ft capacity at rated distance from center of rotation
- ▶ 57 ft maximum boom length
- ▶ 66 ft 5 in maximum tip height
- ▶ 22–36 ft optional jib
- ▶ 101 ft 9 in maximum sheave height with 36 ft jib

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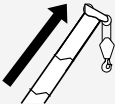
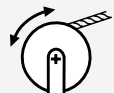
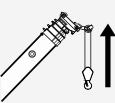
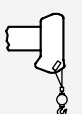
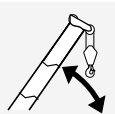
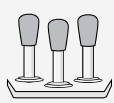
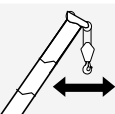
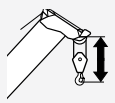
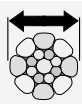
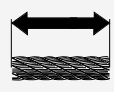
### Technical description

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# KEY

**BT 2047 / BT 2057**

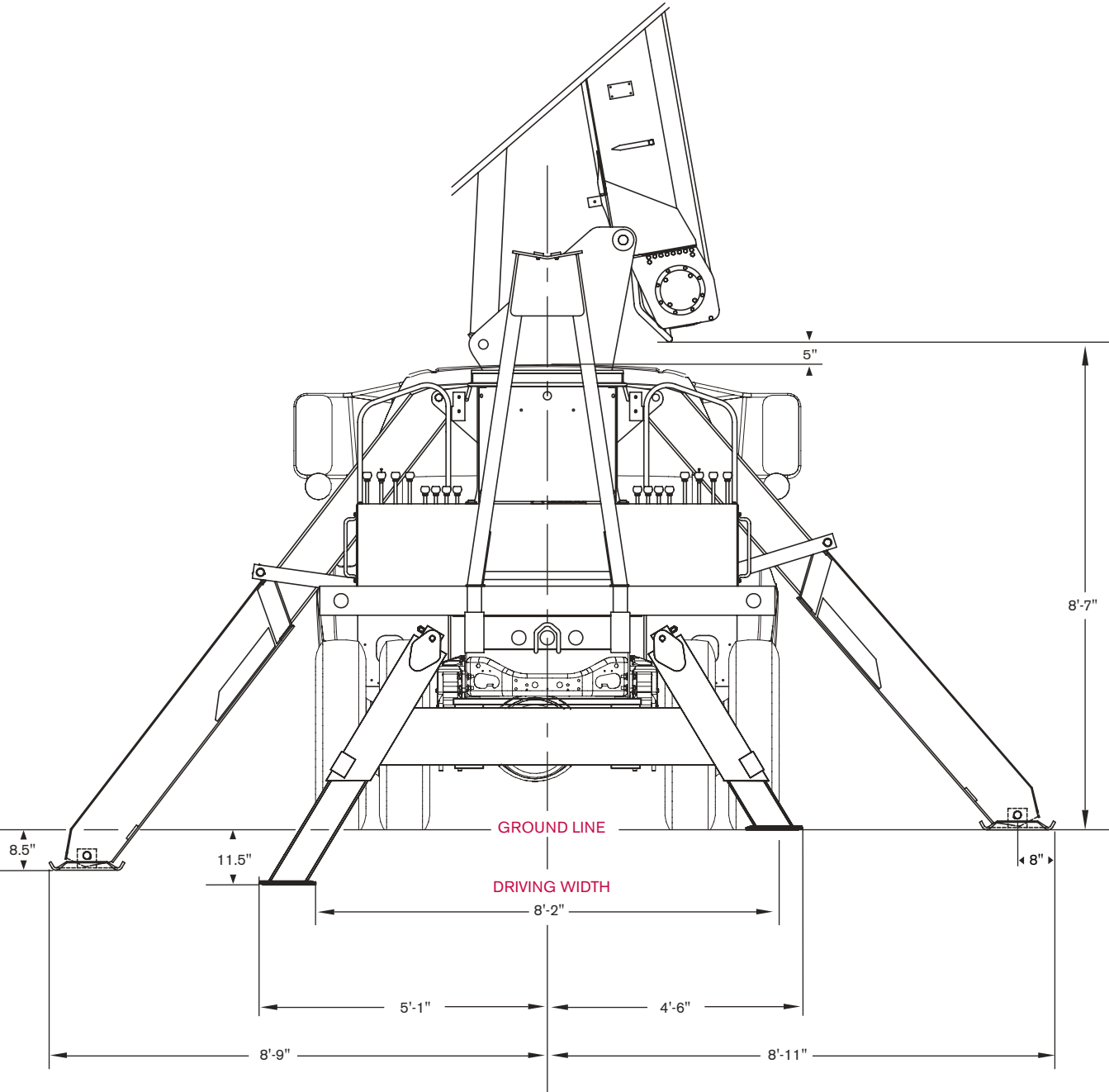
|                                                                                     |                                     |                                                                                     |                            |
|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|----------------------------|
|    | Main boom                           |    | Main Hoist                 |
|    | Boom length                         |    | Hoist line speed           |
|    | Tip height                          |    | Part line                  |
|    | Telescoping mode                    |    | Operator aid               |
|    | Boom angle                          |    | Controls                   |
|   | Working radius                      |   | Hydraulics                 |
|  | Boom with jib                       |  | Working temperature        |
|  | Boom head                           |  | Outriggers                 |
|  | Hook block                          |  | Working speeds             |
|  | Hook to head sheave pin             |  | Rope – Standard / Optional |
|  | Rotation / Allowable rotation range |  | Rope diameter              |
|  | Boom angle                          |  | Rope length                |
|  | Boom over the rear                  |  | Line pull                  |



# DIMENSIONS

**BT 2047**

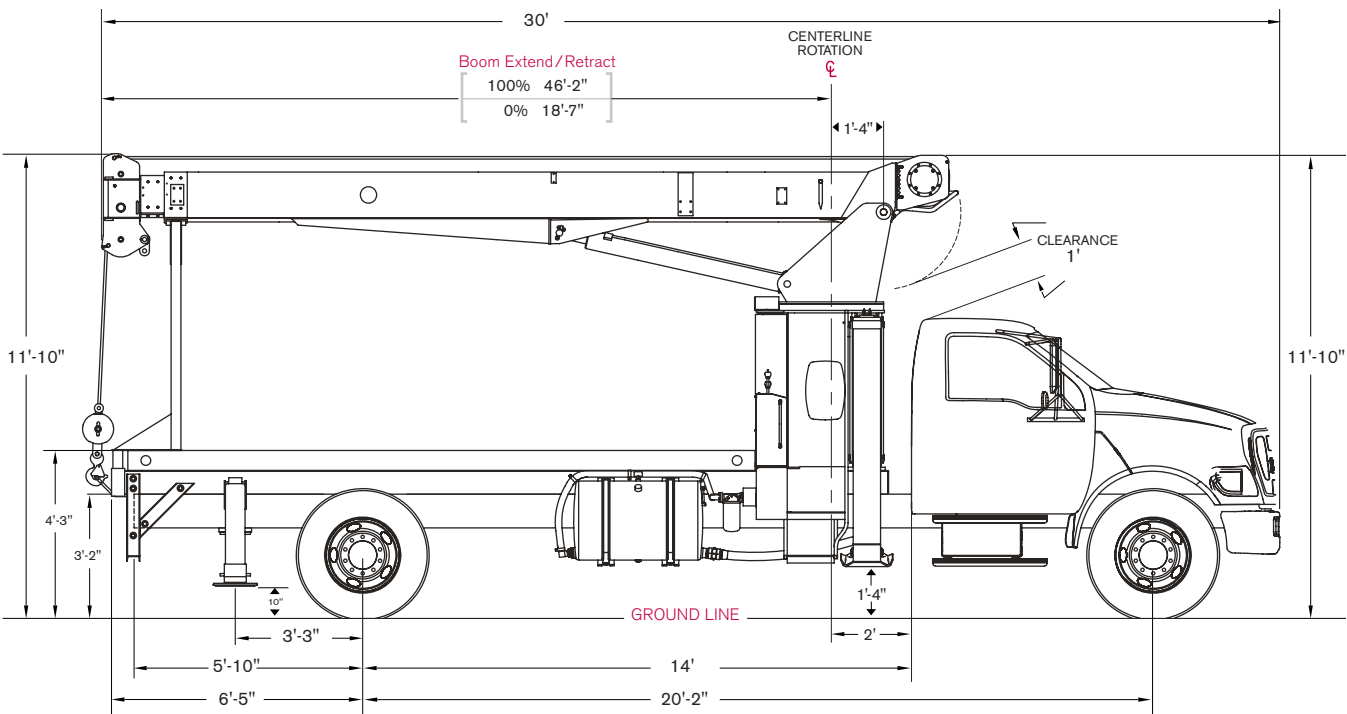
## Crane Dimensions



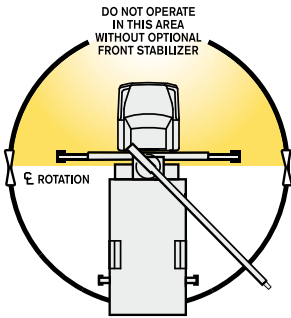
# DIMENSIONS

## Crane Dimensions

### BT 2047



## Area of Operation



## Mounting Specifications

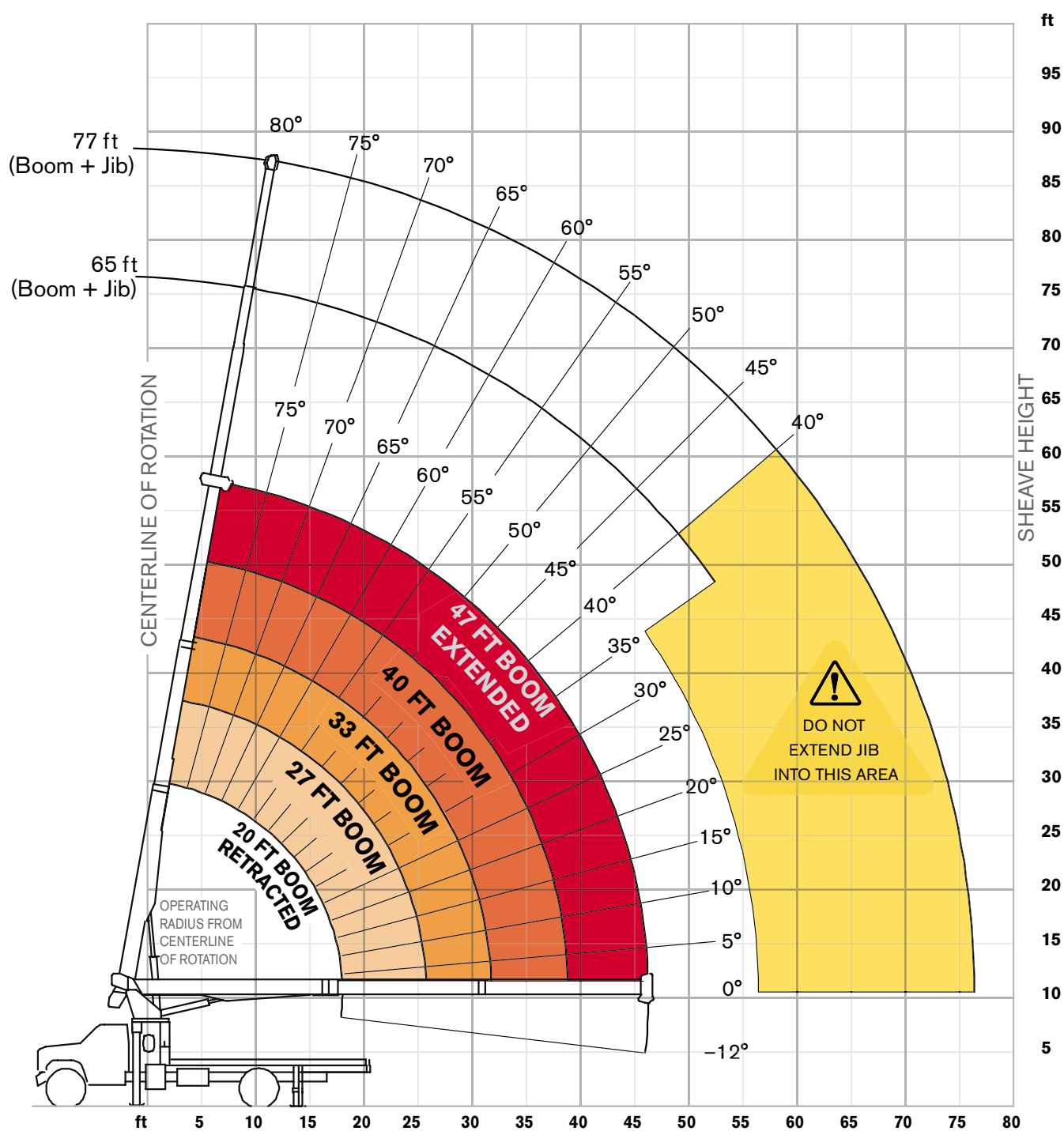
| Chassis recommendation      |                 |
|-----------------------------|-----------------|
| Gross vehicle weight rating | 33,000 lb       |
| Front axle weight rating    | 12,000 lb       |
| Rear axle weight rating     | 21,000 lb       |
| Crane weight                | 10,700 lb       |
| Wheelbase                   | 230 +/- 4 in    |
| Cab to axle                 | 156 +/- 4 in    |
| Afterframe                  | 80 +/- 4 in     |
| RBM per framerail           | 1,200,000 lb/in |



# RANGE DIAGRAM

**BT 2047**

**Outriggers Fully Extended (100%)**



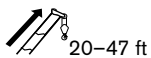
**TEREX®**



# BOOM LOAD CHARTS

**BT 2047**

## Outriggers Fully Extended (100%)



Standard ASME B30.5

|    | Boom Length |        |        |        |       |    |
|----|-------------|--------|--------|--------|-------|----|
|    | 20          | 27     | 33     | 40     | 47    |    |
| ft | lb          | lb     | lb     | lb     | lb    | ft |
| 5  | 20,000      | 12,520 |        |        |       | 5  |
| 8  | 12,830      | 12,230 | 11,850 | 11,170 |       | 8  |
| 10 | 10,830      | 10,270 | 9,900  | 9,370  | 8,220 | 10 |
| 12 | 9,350       | 8,860  | 8,520  | 8,130  | 7,430 | 12 |
| 14 | 8,150       | 7,800  | 7,480  | 7,370  | 6,730 | 14 |
| 16 | 7,240       | 7,100  | 6,810  | 6,540  | 6,090 | 16 |
| 18 | 5,850       | 6,360  | 6,120  | 5,870  | 5,450 | 18 |
| 20 |             | 5,660  | 5,550  | 5,320  | 4,930 | 20 |
| 25 |             | 3,900  | 4,300  | 4,260  | 4,060 | 25 |
| 28 |             |        | 3,700  | 3,690  | 3,510 | 28 |
| 31 |             |        | 2,890  | 3,210  | 3,140 | 31 |
| 35 |             |        |        | 2,690  | 2,670 | 35 |
| 38 |             |        |        | 2,110  | 2,370 | 38 |
| 40 |             |        |        |        | 2,250 | 40 |
| 45 |             |        |        |        | 1,800 | 45 |
| 46 |             |        |        |        | 1,465 | 46 |

## With Jib, Retracted and Extended



Standard ASME B30.5

|    | Jib Capacities for All Boom Lengths |     |       |       |       |       |       |       |       |       |    |
|----|-------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|----|
|    | 35°                                 | 40° | 45°   | 50°   | 55°   | 60°   | 65°   | 70°   | 75°   | 78°   |    |
| ft | lb                                  | lb  | lb    | lb    | lb    | lb    | lb    | lb    | lb    | lb    | ft |
| 18 | 800                                 | 900 | 1,040 | 1,200 | 1,430 | 1,760 | 2,180 | 2,800 | 3,700 | 4,400 | 18 |
| 30 | —                                   | 500 | 550   | 600   | 700   | 810   | 1,000 | 1,260 | 1,660 | 2,060 | 30 |

## Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

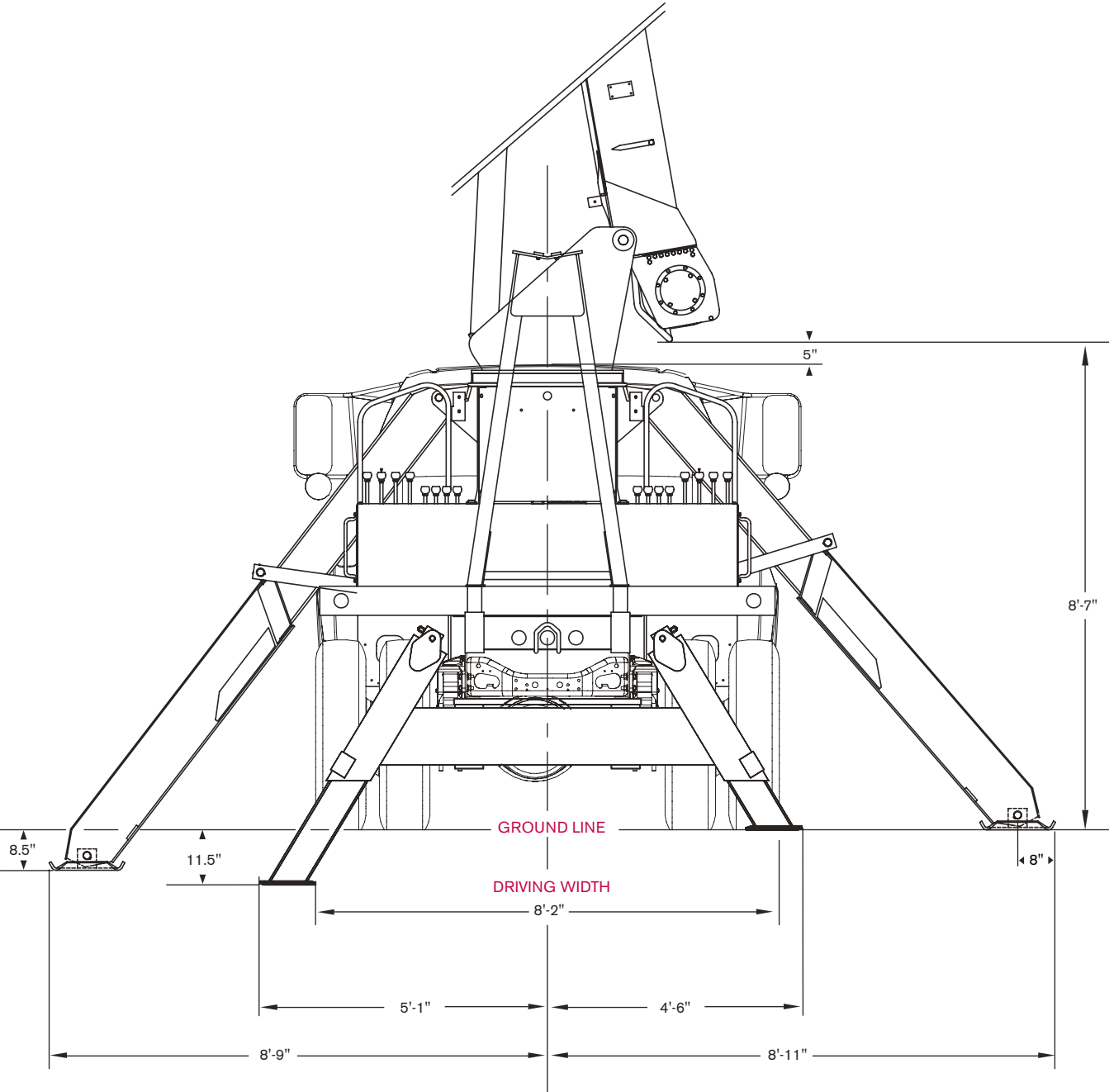
Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.



# DIMENSIONS

**BT 2057**

## Crane Dimensions



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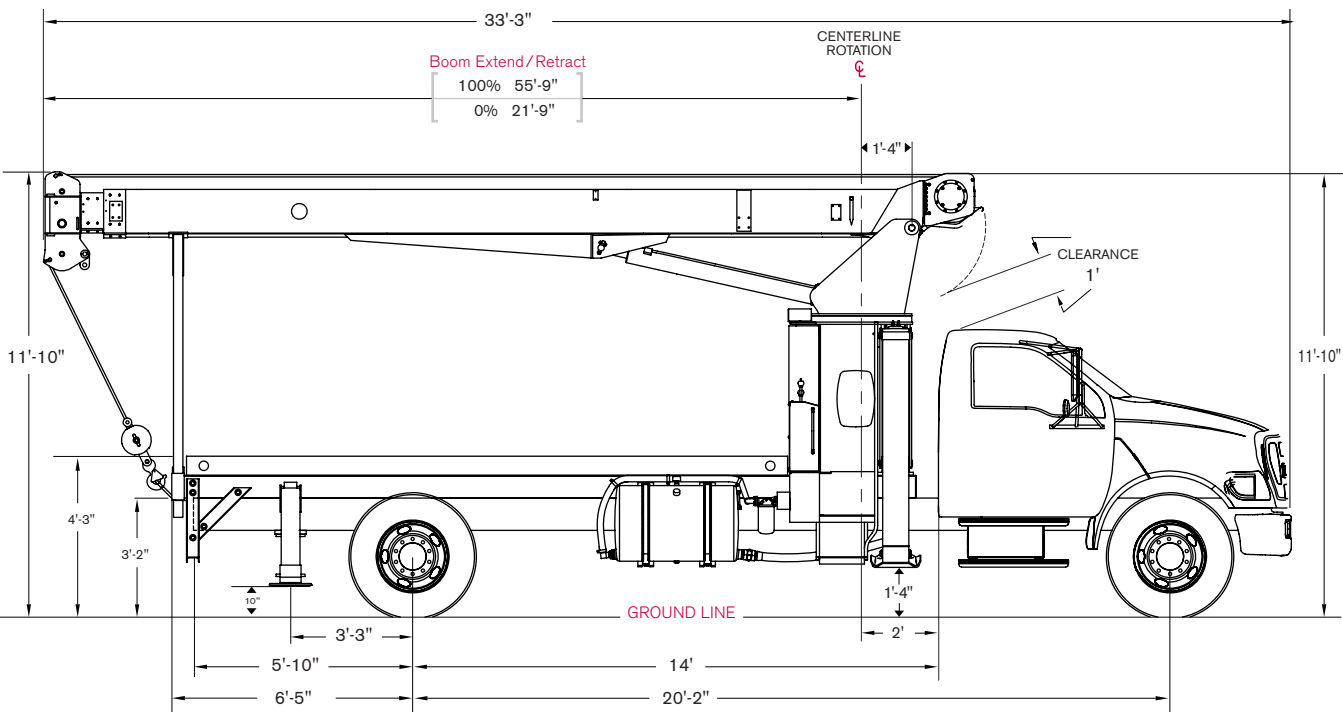




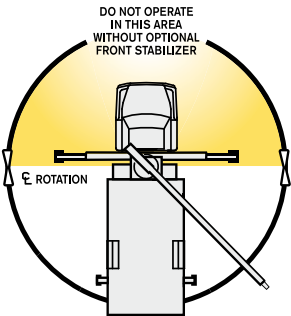
# DIMENSIONS

BT 2057

## Crane Dimensions



## Area of Operation



## Mounting Specifications

| Chassis recommendation      |                 |
|-----------------------------|-----------------|
| Gross vehicle weight rating | 33,000 lb       |
| Front axle weight rating    | 12,000 lb       |
| Rear axle weight rating     | 21,000 lb       |
| Crane weight                | 10,850 lb       |
| Wheelbase                   | 230 +/- 4 in    |
| Cab to axle                 | 156 +/- 4 in    |
| Afterframe                  | 80 +/- 4 in     |
| RBM per framerail           | 1,200,000 lb/in |

# BT 2057

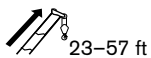




# BOOM LOAD CHARTS

**BT 2057**

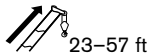
## Outriggers Fully Extended (100%)



Standard ASME B30.5

| <br>ft | Boom Length |          |          |          |          | <br>ft |
|-----------------------------------------------------------------------------------------|-------------|----------|----------|----------|----------|-------------------------------------------------------------------------------------------|
|                                                                                         | 23<br>lb    | 32<br>lb | 40<br>lb | 48<br>lb | 57<br>lb |                                                                                           |
| 5                                                                                       | 20,000      |          |          |          |          | 5                                                                                         |
| 8                                                                                       | 12,700      | 12,000   | 11,700   |          |          | 8                                                                                         |
| 10                                                                                      | 10,500      | 9,900    | 9,625    | 9,500    |          | 10                                                                                        |
| 12                                                                                      | 9,000       | 8,500    | 8,200    | 8,000    | 7,900    | 12                                                                                        |
| 14                                                                                      | 8,000       | 7,525    | 7,225    | 6,925    | 6,825    | 14                                                                                        |
| 16                                                                                      | 7,125       | 6,625    | 6,425    | 6,125    | 5,925    | 16                                                                                        |
| 20                                                                                      | 5,325       | 5,425    | 5,225    | 4,925    | 4,725    | 20                                                                                        |
| 21                                                                                      | 4,725       | 5,125    | 4,925    | 4,625    | 4,525    | 21                                                                                        |
| 25                                                                                      |             | 4,225    | 4,125    | 3,925    | 3,825    | 25                                                                                        |
| 30                                                                                      |             | 2,825    | 3,225    | 3,225    | 3,125    | 30                                                                                        |
| 35                                                                                      |             |          | 2,625    | 2,725    | 2,625    | 35                                                                                        |
| 38                                                                                      |             |          | 2,025    | 2,325    | 2,325    | 38                                                                                        |
| 40                                                                                      |             |          |          | 2,225    | 2,225    | 40                                                                                        |
| 46                                                                                      |             |          |          | 1,425    | 1,725    | 46                                                                                        |
| 50                                                                                      |             |          |          |          | 1,525    | 50                                                                                        |
| 55                                                                                      |             |          |          |          | 925      | 55                                                                                        |

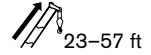
## Boom at 0°



Standard ASME B30.5

| <br>° | Boom Length |          |          |          |          | <br>° |
|------------------------------------------------------------------------------------------|-------------|----------|----------|----------|----------|--------------------------------------------------------------------------------------------|
|                                                                                          | 23<br>lb    | 32<br>lb | 40<br>lb | 48<br>lb | 57<br>lb |                                                                                            |
| 0                                                                                        | 3,500       | 2,100    | 1,700    | 1,000    | 750      | 0                                                                                          |

## With Jib, Retracted and Extended



Standard ASME B30.5

|  | Jib Capacities for All Boom Lengths |     |     |       |       |       |       |       |       |  |
|-------------------------------------------------------------------------------------|-------------------------------------|-----|-----|-------|-------|-------|-------|-------|-------|---------------------------------------------------------------------------------------|
|                                                                                     | 40°                                 | 45° | 50° | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   |                                                                                       |
| ft                                                                                  | lb                                  | lb  | lb  | lb    | lb    | lb    | lb    | lb    | lb    | ft                                                                                    |
| 22                                                                                  | 500                                 | 600 | 750 | 1,000 | 1,200 | 1,500 | 2,000 | 2,600 | 3,150 | 22                                                                                    |
| 36                                                                                  | —                                   | —   | —   | 550   | 650   | 850   | 1,100 | 1,480 | 1,900 | 36                                                                                    |

## Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.



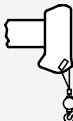
# TECHNICAL DESCRIPTION

**BT 2047 / BT 2057**

## Boom, Jib and Rotation

|                                                                                     |                                                                               |                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|    | Three-section full power fully synchronized telescopic keel boom              |                                                                                                                 |
|    | Boom length                                                                   | <b>BT 2047</b> 47 ft<br><b>BT 2057</b> 57 ft                                                                    |
|    | Boom elevation angle range (min/max)                                          | -8° / 82°                                                                                                       |
|                                                                                     | Boom up/down time                                                             | 16/10 seconds                                                                                                   |
|                                                                                     | Boom extension /retraction time                                               | <b>BT 2047</b> 39/30 seconds<br><b>BT 2057</b> 35/27 seconds                                                    |
|    | Boom head                                                                     | Quick reeving                                                                                                   |
|   | Maximum sheave height                                                         | <b>BT 2047</b> With optional 18–30 ft jib: 91 ft 9 in<br><b>BT 2057</b> With optional 22–36 ft jib: 101 ft 9 in |
|  | 180 degree non-continuous rotation or optional 360 degree continuous rotation |                                                                                                                 |

## Operator Controls and Operator Aid

|                                                                                     |                   |           |
|-------------------------------------------------------------------------------------|-------------------|-----------|
|  | Hoist line pull   | 7,900 lb  |
|  | Rope diameter     | 1/2 in    |
|  | Breaking strength | 27,000 lb |
|  | Overhaul ball     | 6.25 US t |
|                                                                                     | 1 Sheave block    | 10 US t   |
|                                                                                     | 2 Sheave block    | 15 US t   |
|  | 1 part line       | 7,600 lb  |
|                                                                                     | 2 part line       | 15,200 lb |
|                                                                                     | 3 part line       | 22,800 lb |

TECHNICAL DESCRIPTION

BT 2047 / BT 2057

|                                                                                   |                                                   |
|-----------------------------------------------------------------------------------|---------------------------------------------------|
|  | Fully proportional independent outrigger controls |
|  | Electronic rated capacity indicator               |

Understructure

|                                                                                   |                                   |             |
|-----------------------------------------------------------------------------------|-----------------------------------|-------------|
|  | <b>Front: "A-frame" link type</b> |             |
|                                                                                   | To outer edge of pad              | 17 ft 10 in |
|                                                                                   | <b>Rear: A-Frame</b>              |             |
|                                                                                   | To outer edge of pad              | 10ft 2 in   |

Optional Features

|                                 |
|---------------------------------|
| Two-stage jib                   |
| Rotation resistant rope         |
| Multi-part load blocks          |
| Main hoist with 2 speed motor   |
| Heavy duty wood flatbeds        |
| Extra heavy duty wood flatbeds  |
| Extra heavy duty steel flatbeds |
| Radio remote controls           |
| One-man or two-man baskets      |
| Hoist drum tensioner            |
| Continuous rotation             |
| Oil cooler                      |
| Single front bumper outrigger   |
| Hydraulic hose reel             |
| Tool box                        |



**BT 2047 / BT 2057**



**BT 2047 / BT 2057**

15



## BT 2047 / BT 2057

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Brochure Reference: TC-DS-I-E-BT2047/BT2057-07/12



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