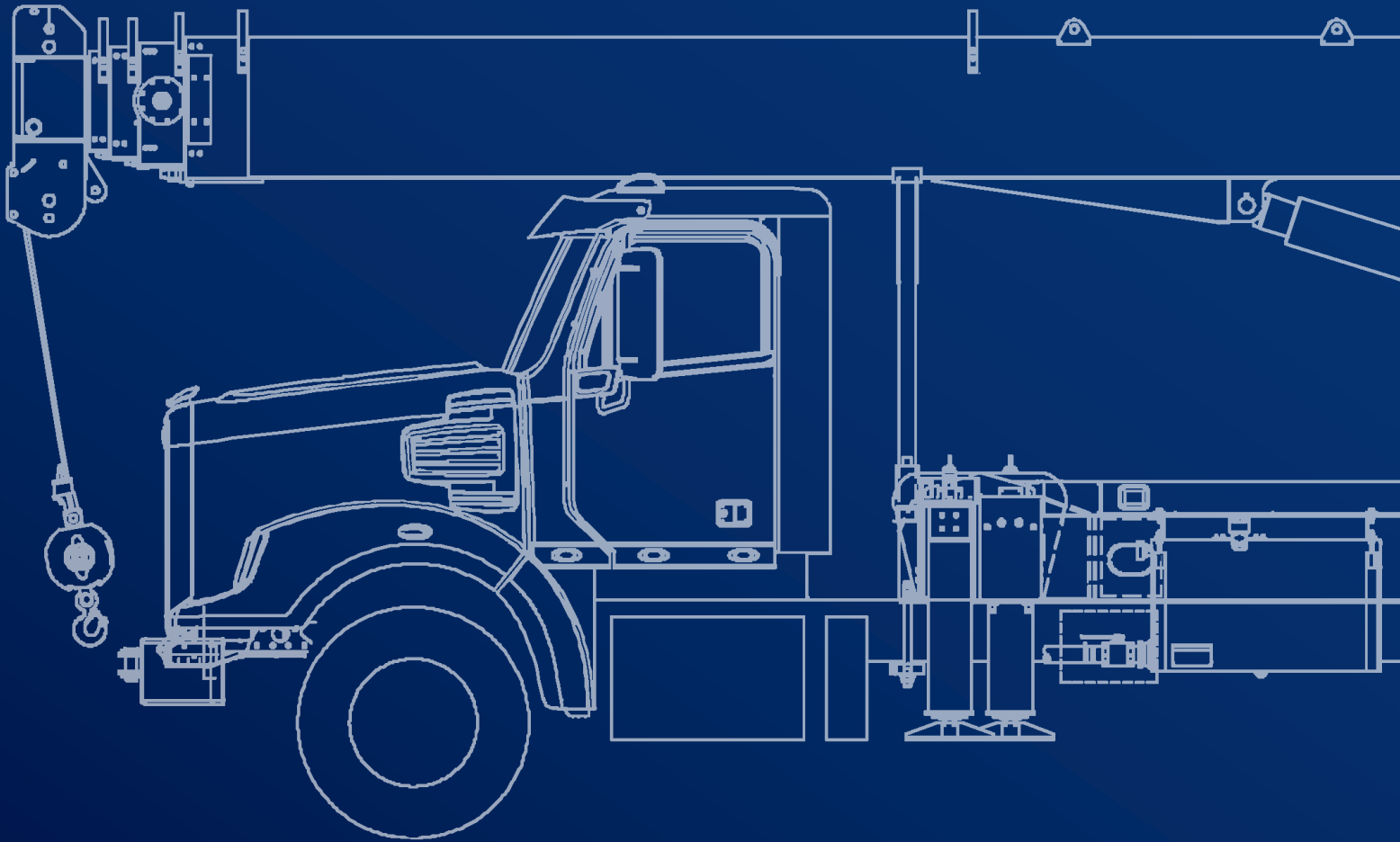


# TC 400

## SERIES PRODUCT GUIDE

40 TON (36.3 MT) TELESCOPIC CRANE





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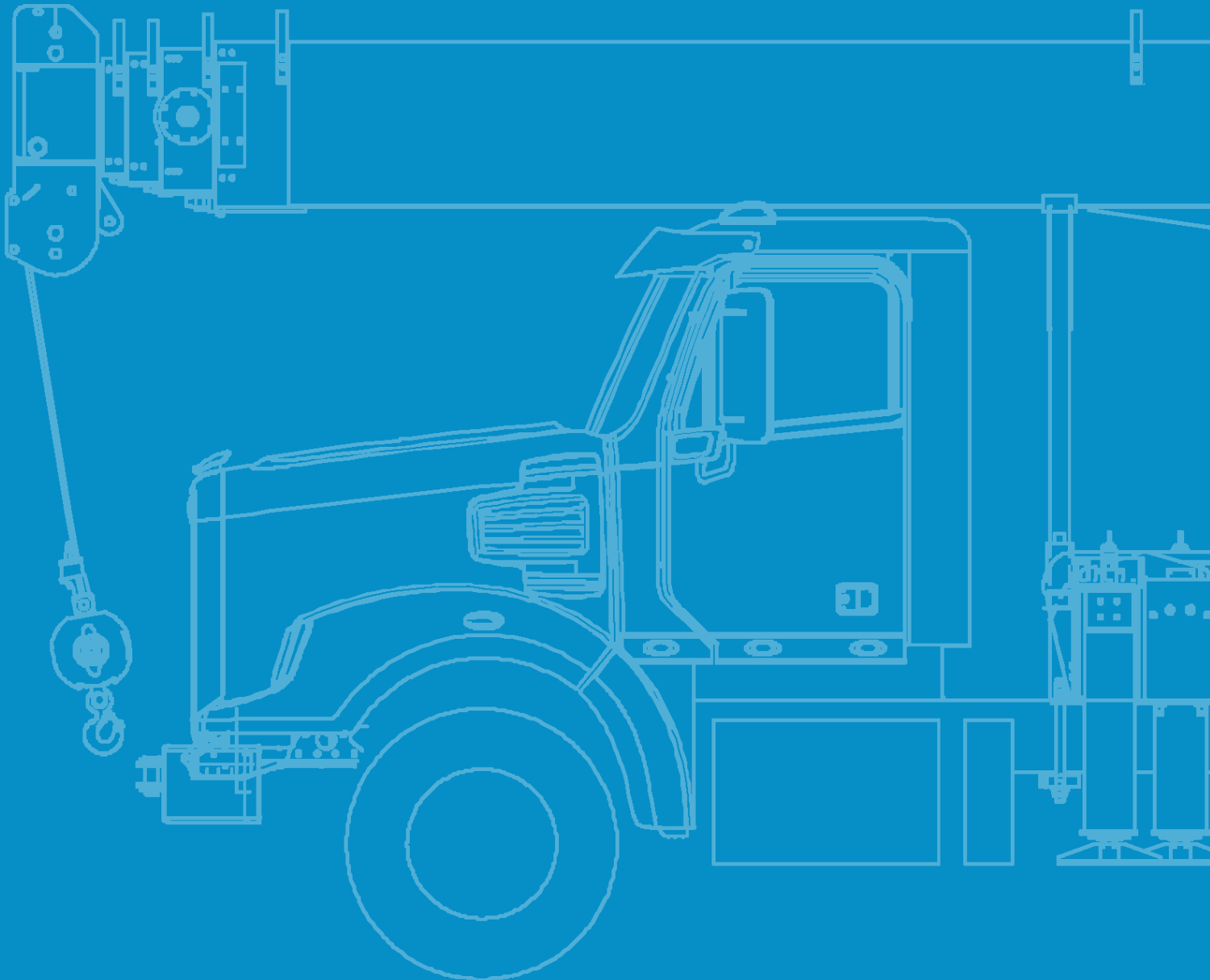
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# Key

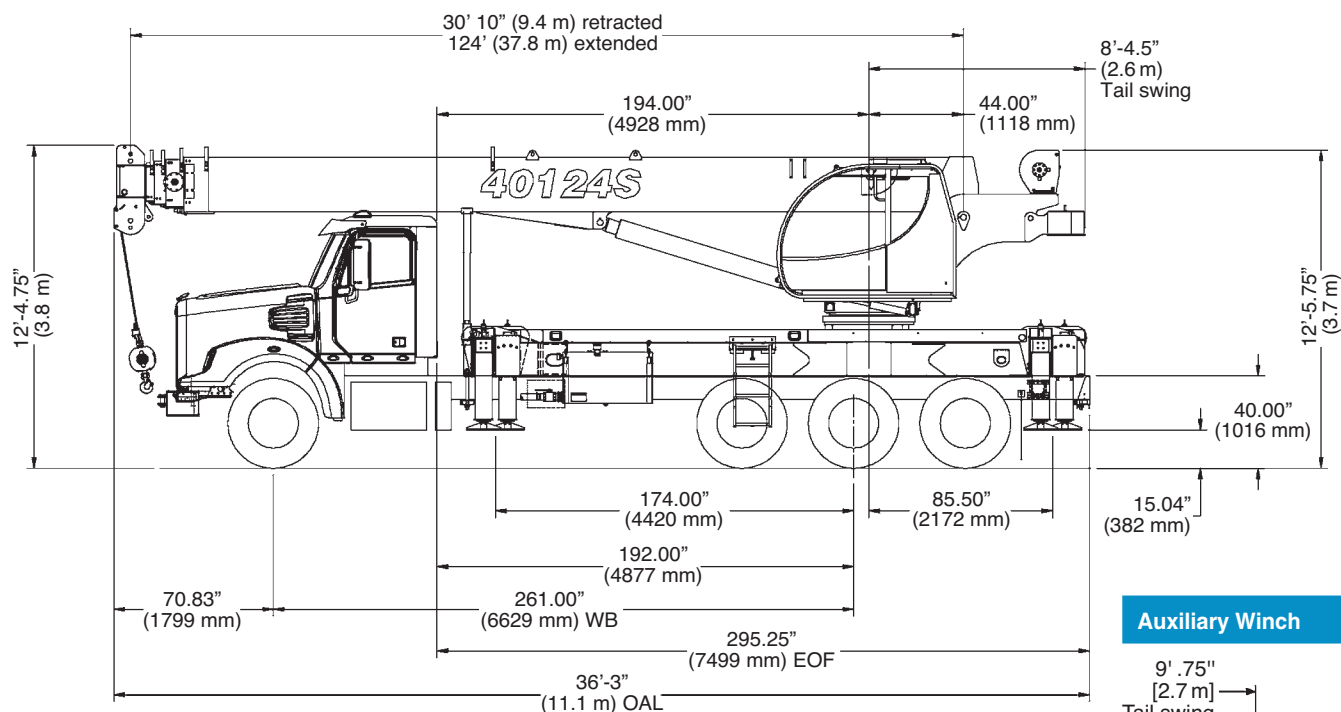
|                                                                                     |                                      |                                                                                     |                                       |
|-------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|
|    | 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>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                            |

TC400



# TC400 Series Chassis Data – S Models

## Dimensions



## Chassis Data

### S Models

|                                                         |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| Wheel base (WB)                                         | 261 in. (6,629 mm)                                |
| Cab to tandem (CT)                                      | 192 in. (4,877 mm)                                |
| Cab to end of frame (EOF)                               | 295 in. (7,493 mm)                                |
| Nominal frame width                                     | 34 in. (864 mm)                                   |
| Frame section modulus at 180° / 360° area of operation* | 25.0 in <sup>3</sup><br>110,000 psi · 758,422 kPa |

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

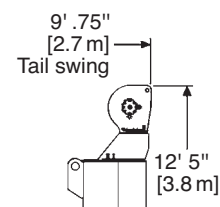
## Truck Axle Weights

| Model                            | 4077S                  | 40100S                 | 40124S                 |
|----------------------------------|------------------------|------------------------|------------------------|
| Front axle (GW)                  | 18,000 lbs (8,165 kg)  | 18,000 lbs (8,165 kg)  | 20,000 lbs (9,072 kg)  |
| Rear axle                        | 40,000 lbs (18,144 kg) | 40,000 lbs (18,144 kg) | 40,000 lbs (18,144 kg) |
| Min. truck axle weight – Front** | 8,000 lbs (3,629 kg)   | 8,000 lbs (3,629 kg)   | 9,200 lbs (4,173 kg)   |
| Min. truck axle weight – Rear**  | 8,300 lbs (3,765 kg)   | 8,300 lbs (3,765 kg)   | 8,300 lbs (3,765 kg)   |

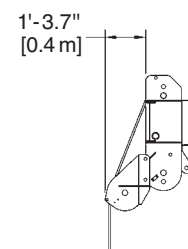
## Crane Weights

| Model          | 4077S                  | 40100S                 | 40124S                 |
|----------------|------------------------|------------------------|------------------------|
| Crane          | 28,895 lbs (13,107 kg) | 30,965 lbs (14,045 kg) | 32,385 lbs (14,690 kg) |
| Jib fixed      | 830 lbs (376 kg)       | 830 lbs (376 kg)       | 830 lbs (376 kg)       |
| Jib telescopic | 1,720 lbs (780 kg)     | 1,720 lbs (780 kg)     | 1,720 lbs (780 kg)     |
| Flatbed 8 ft   | 825 lbs (374 kg)       | 825 lbs (374 kg)       | 825 lbs (374 kg)       |
| Flatbed 10 ft  | 1,000 lbs (454 kg)     | 1,000 lbs (454 kg)     | 1,000 lbs (454 kg)     |

## Auxiliary Winch



## Auxiliary Sheave Head



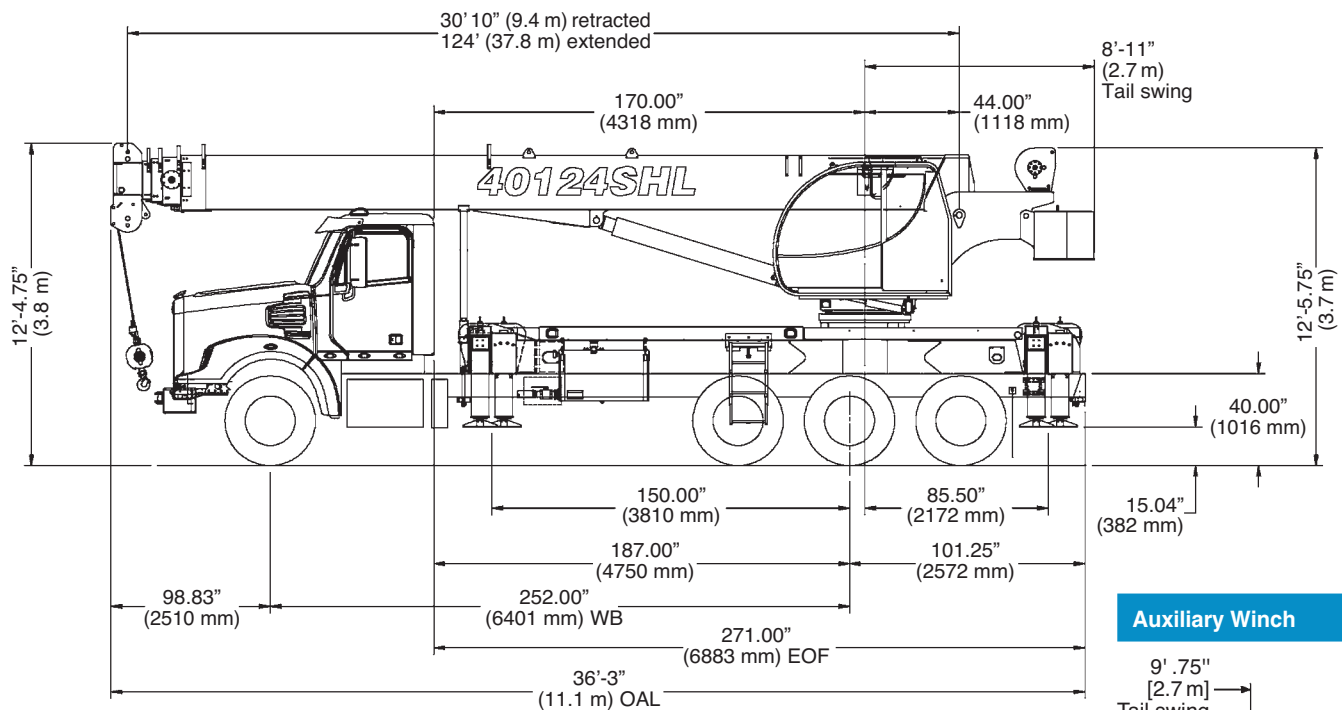
\*\* Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

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.

# TC400 Series Chassis Data – SHL Models

## Dimensions



## Chassis Data

| SHL Models                                              |                                                   |
|---------------------------------------------------------|---------------------------------------------------|
| Wheel base (WB)                                         | 252 in. (6,401 mm)                                |
| Cab to tandem (CT)                                      | 187 in. (4,750 mm)                                |
| Cab to end of frame (EOF)                               | 271 in. (6,883 mm)                                |
| Nominal frame width                                     | 34 in. (864 mm)                                   |
| Frame section modulus at 180° / 360° area of operation* | 25.0 in <sup>3</sup><br>110,000 psi · 758,422 kPa |

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

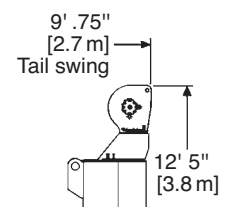
## Truck Axle Weights

| Model                            | 4077SHL                | 40100SHL               | 40124SHL               |
|----------------------------------|------------------------|------------------------|------------------------|
| Front axle (GW)                  | 20,000 lbs (9,072 kg)  | 20,000 lbs (9,072 kg)  | 20,000 lbs (9,072 kg)  |
| Rear axle                        | 44,000 lbs (19,958 kg) | 44,000 lbs (19,958 kg) | 44,000 lbs (19,958 kg) |
| Min. truck axle weight – Front** | 9,800 lbs (4,445 kg)   | 9,800 lbs (4,445 kg)   | 9,800 lbs (4,445 kg)   |
| Min. truck axle weight – Rear**  | 8,000 lbs (3,629 kg)   | 8,000 lbs (3,629 kg)   | 8,000 lbs (3,629 kg)   |

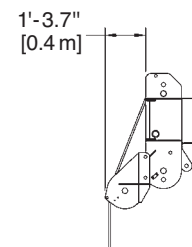
## Crane Weights

| Model          | 4077SHL                | 40100SHL               | 40124SHL               |
|----------------|------------------------|------------------------|------------------------|
| Crane          | 34,995 lbs (15,873 kg) | 37,065 lbs (16,812 kg) | 38,485 lbs (17,457 kg) |
| Jib fixed      | 830 lbs (376 kg)       | 830 lbs (376 kg)       | 830 lbs (376 kg)       |
| Jib telescopic | 1,720 lbs (780 kg)     | 1,720 lbs (780 kg)     | 1,720 lbs (780 kg)     |
| Flatbed 8 ft   | 825 lbs (374 kg)       | 825 lbs (374 kg)       | 825 lbs (374 kg)       |
| Flatbed 10 ft  | 1,000 lbs (454 kg)     | 1,000 lbs (454 kg)     | 1,000 lbs (454 kg)     |

## Auxiliary Winch



## Auxiliary Sheave Head



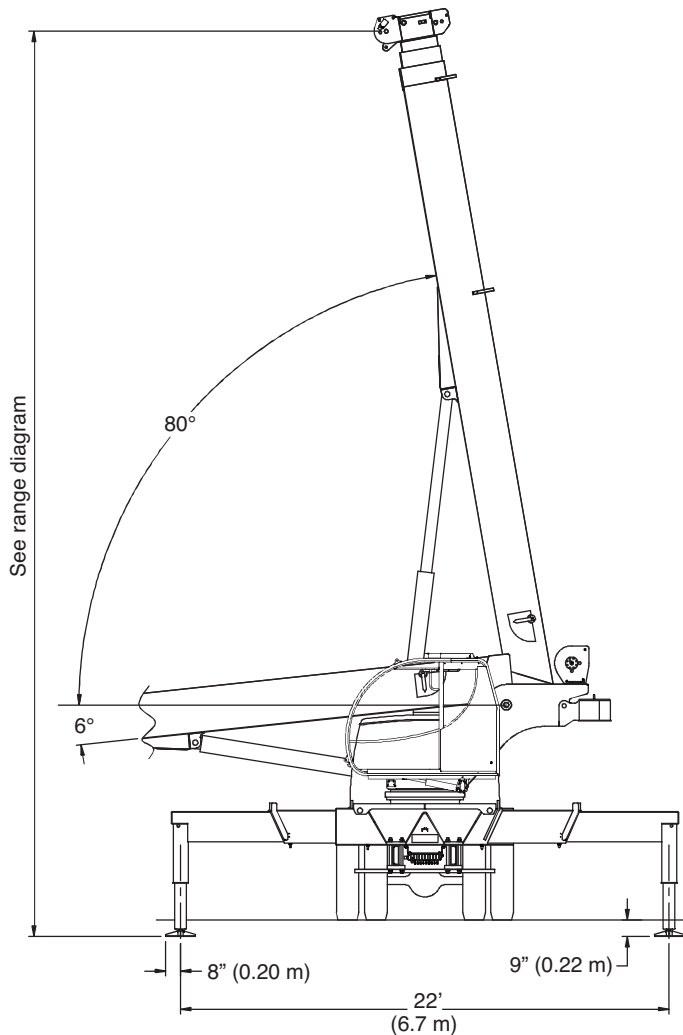
\*\* Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on truck selection.

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.

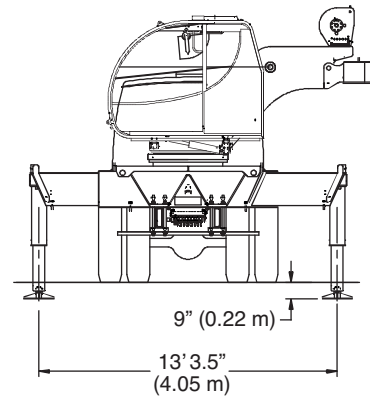
Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

# Outrigger Extension

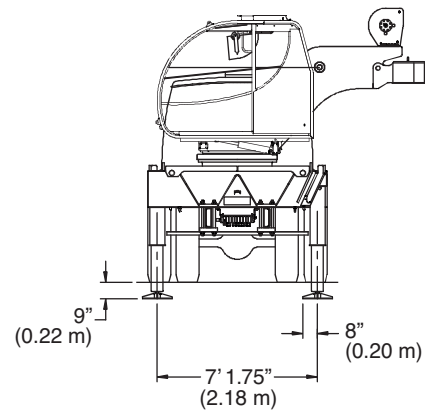
## Full Extension



## Middle Extension



## Full Retraction



## Sub Frame

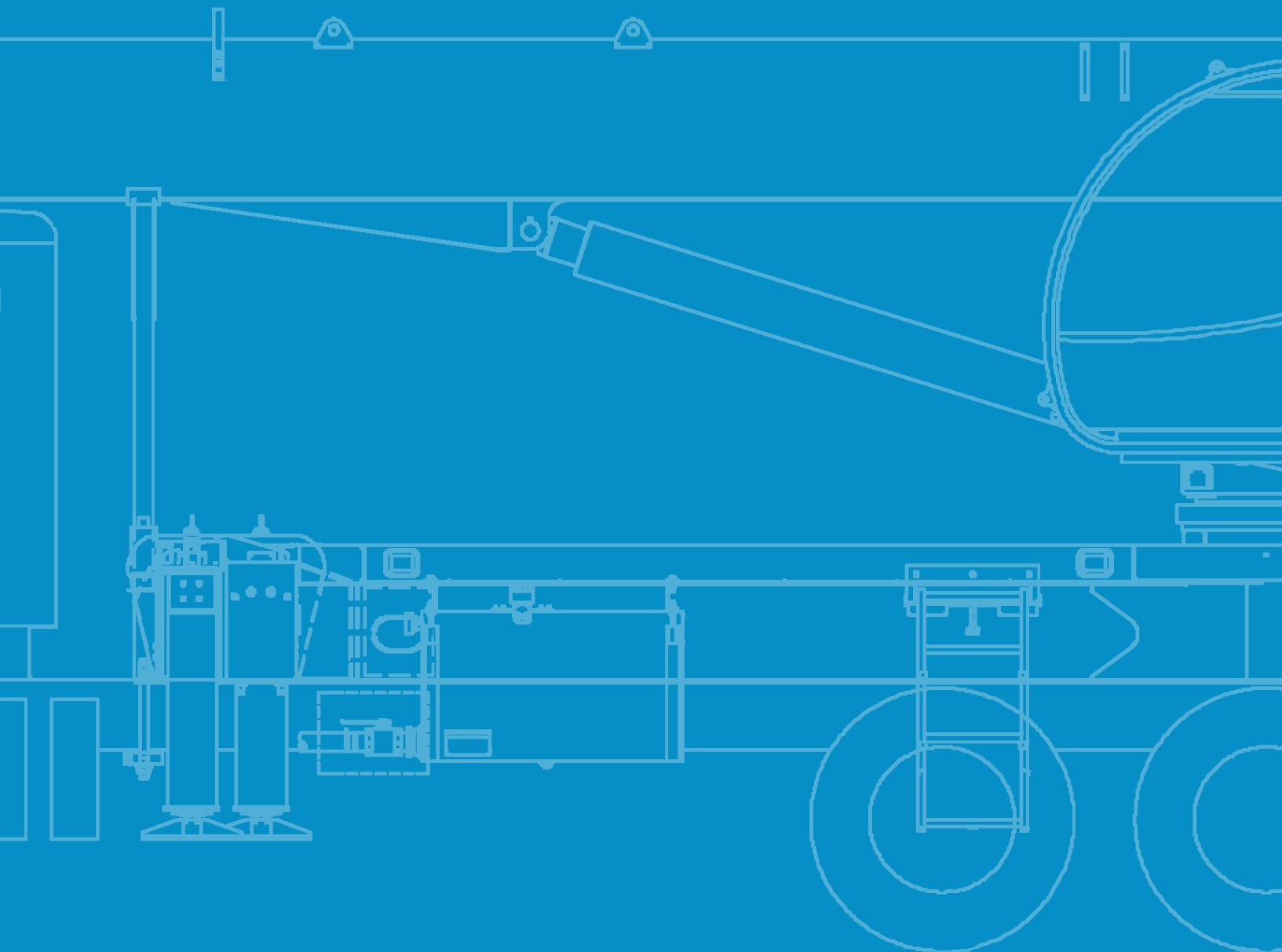
- Pedestal sub-frame and stabilizers are mounted to chassis by threaded rods and clamp plates
- Sub-frame: Torsion resistant, rigid 4-plate design mounted under crane full length of truck frame
- Rear under-ride protection: Standard on factory mounted cranes

## Electrical System

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

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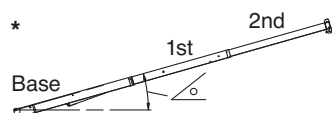
TC400



# 4077S Load Chart

## Main Boom

|  |    |        |  |        |                                                                                   |  |                                                                                    |  |                                                                                     |        |                                                                                     |
|-----------------------------------------------------------------------------------|----|--------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
|  |    |        |  |        |  |                                                                                    |  |                                                                                     |  |        |  |
| ft                                                                                | °  | lbs    | °                                                                                 | lbs    | °                                                                                 | lbs                                                                                | °                                                                                  | lbs                                                                                 | °                                                                                   | lbs    | ft                                                                                  |
| 5                                                                                 | 75 | 80,000 | -                                                                                 | -      | -                                                                                 | -                                                                                  | -                                                                                  | -                                                                                   | -                                                                                   | -      | 5                                                                                   |
| 8                                                                                 | 69 | 61,760 | 74                                                                                | 55,500 | 79                                                                                | 47,500                                                                             | -                                                                                  | -                                                                                   | -                                                                                   | -      | 8                                                                                   |
| 10                                                                                | 65 | 53,930 | 71                                                                                | 50,920 | 76                                                                                | 47,500                                                                             | 80                                                                                 | 38,000                                                                              | -                                                                                   | -      | 10                                                                                  |
| 12                                                                                | 61 | 48,090 | 68                                                                                | 45,240 | 74                                                                                | 42,760                                                                             | 78                                                                                 | 35,050                                                                              | 80                                                                                  | 28,410 | 12                                                                                  |
| 15                                                                                | 54 | 41,110 | 64                                                                                | 38,890 | 71                                                                                | 36,570                                                                             | 75                                                                                 | 30,890                                                                              | 78                                                                                  | 25,500 | 15                                                                                  |
| 20                                                                                | 41 | 31,330 | 55                                                                                | 31,330 | 65                                                                                | 29,590                                                                             | 70                                                                                 | 25,850                                                                              | 74                                                                                  | 21,670 | 20                                                                                  |
| 25                                                                                | 21 | 22,670 | 46                                                                                | 23,080 | 58                                                                                | 23,320                                                                             | 65                                                                                 | 21,930                                                                              | 70                                                                                  | 18,870 | 25                                                                                  |
| 30                                                                                | -  | -      | 34                                                                                | 17,220 | 51                                                                                | 17,460                                                                             | 60                                                                                 | 17,580                                                                              | 66                                                                                  | 16,470 | 30                                                                                  |
| 35                                                                                | -  | -      | 16                                                                                | 13,420 | 44                                                                                | 13,690                                                                             | 55                                                                                 | 13,810                                                                              | 62                                                                                  | 13,890 | 35                                                                                  |
| 40                                                                                | -  | -      | -                                                                                 | -      | 34                                                                                | 10,950                                                                             | 49                                                                                 | 11,100                                                                              | 58                                                                                  | 11,190 | 40                                                                                  |
| 45                                                                                | -  | -      | -                                                                                 | -      | 22                                                                                | 8,790                                                                              | 42                                                                                 | 8,960                                                                               | 53                                                                                  | 9,050  | 45                                                                                  |
| 50                                                                                | -  | -      | -                                                                                 | -      | -                                                                                 | -                                                                                  | 35                                                                                 | 7,360                                                                               | 48                                                                                  | 7,450  | 50                                                                                  |
| 55                                                                                | -  | -      | -                                                                                 | -      | -                                                                                 | -                                                                                  | 25                                                                                 | 6,110                                                                               | 43                                                                                  | 6,210  | 55                                                                                  |
| 60                                                                                | -  | -      | -                                                                                 | -      | -                                                                                 | -                                                                                  | 7                                                                                  | 5,090                                                                               | 36                                                                                  | 5,230  | 60                                                                                  |
| 65                                                                                | -  | -      | -                                                                                 | -      | -                                                                                 | -                                                                                  | -                                                                                  | -                                                                                   | 29                                                                                  | 4,420  | 65                                                                                  |
| 70                                                                                | -  | -      | -                                                                                 | -      | -                                                                                 | -                                                                                  | -                                                                                  | -                                                                                   | 19                                                                                  | 3,740  | 70                                                                                  |



### NOTES:

All loads rated at 360° pick

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

Loads based on crane on outriggers

Loads above heavy line are based on structural rating

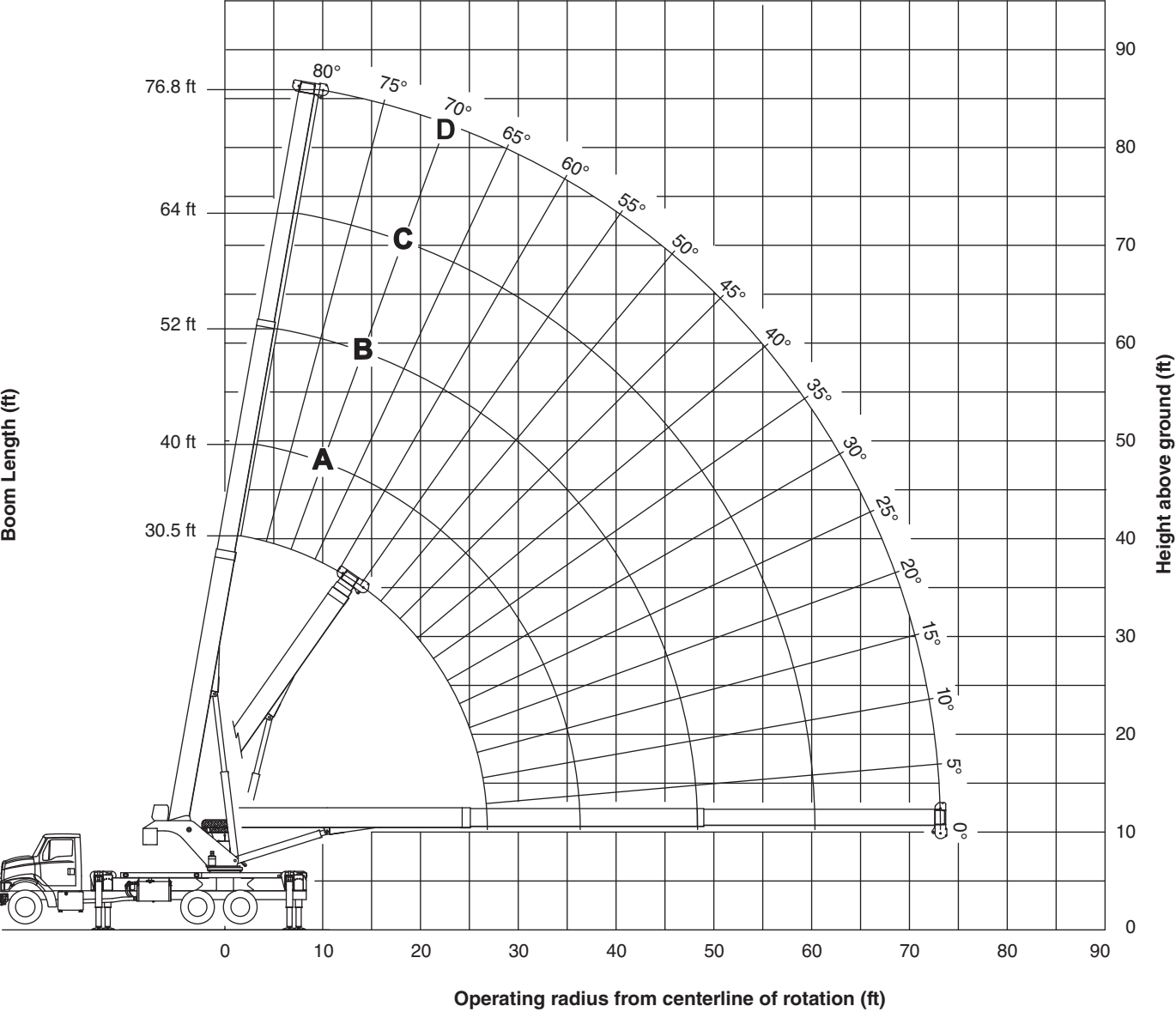
Loads below heavy line are based on stability rating

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

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

# 4077S Boom Diagram

# Main Boom

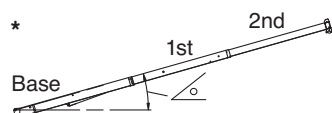


Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

# 4077SHL Load Chart

## Main Boom

| 30.5 ft – 76.8 ft – 3 section |    |        | 360° continuous |        | 22 ft (6.7 m) |        | Fully Extended (100 %) |        |             |
|-------------------------------|----|--------|-----------------|--------|---------------|--------|------------------------|--------|-------------|
| 30.5 ft                       |    |        | 40 ft (A)       |        | 52 ft (B)     |        | 64 ft (C)              |        | 76.8 ft (D) |
| ft                            | °  | lbs    | °               | lbs    | °             | lbs    | °                      | lbs    | ft          |
| 5                             | 75 | 80,000 | -               | -      | -             | -      | -                      | -      | 5           |
| 8                             | 69 | 61,760 | 74              | 55,500 | 79            | 47,500 | -                      | -      | 8           |
| 10                            | 65 | 53,930 | 71              | 50,920 | 76            | 47,500 | 80                     | 38,000 | 10          |
| 12                            | 61 | 48,090 | 68              | 45,240 | 74            | 42,760 | 78                     | 35,050 | 12          |
| 15                            | 54 | 41,110 | 64              | 38,890 | 71            | 36,570 | 75                     | 30,890 | 15          |
| 20                            | 41 | 33,020 | 55              | 31,330 | 65            | 29,590 | 70                     | 25,850 | 20          |
| 25                            | 21 | 25,700 | 46              | 26,330 | 58            | 24,750 | 65                     | 21,930 | 25          |
| 30                            | -  | -      | 34              | 20,490 | 51            | 20,730 | 60                     | 19,000 | 30          |
| 35                            | -  | -      | 16              | 16,100 | 44            | 16,380 | 55                     | 16,500 | 35          |
| 40                            | -  | -      | -               | -      | 34            | 13,340 | 49                     | 13,470 | 40          |
| 45                            | -  | -      | -               | -      | 22            | 11,090 | 42                     | 11,230 | 45          |
| 50                            | -  | -      | -               | -      | -             | -      | 35                     | 9,510  | 50          |
| 55                            | -  | -      | -               | -      | -             | -      | 25                     | 8,140  | 55          |
| 60                            | -  | -      | -               | -      | -             | -      | 7                      | 7,000  | 60          |
| 65                            | -  | -      | -               | -      | -             | -      | -                      | -      | 65          |
| 70                            | -  | -      | -               | -      | -             | -      | -                      | -      | 70          |



### NOTES:

All loads rated at 360° pick

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

Loads based on crane on outriggers

Loads above heavy line are based on structural rating

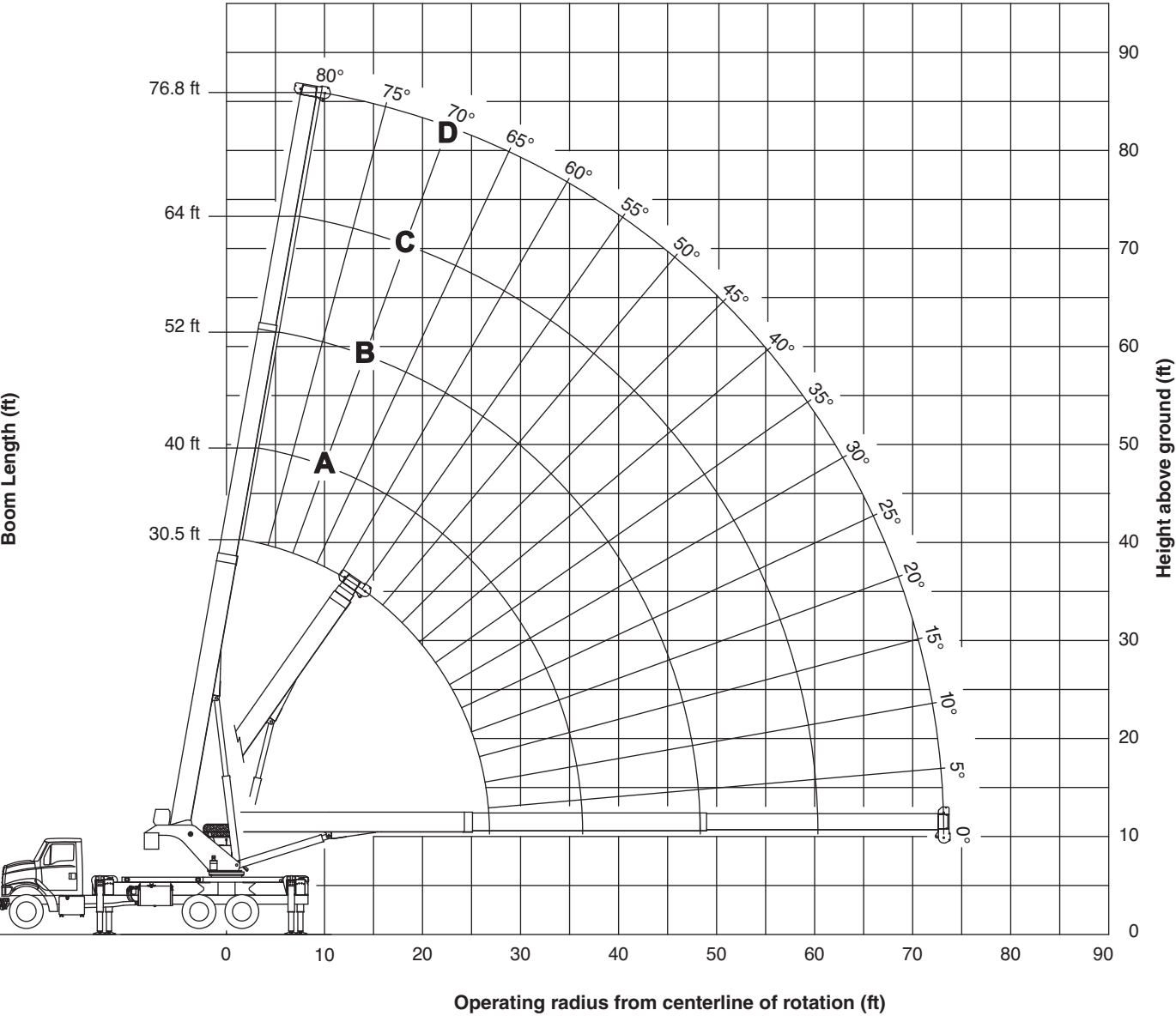
Loads below heavy line are based on stability rating

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

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

# 4077SHL Boom Diagram

# Main Boom



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

# 40100S Load Chart

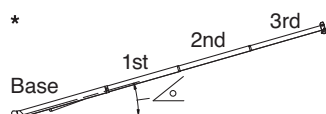
## Main Boom Jib

| 30.5 ft – 100.0 ft – 4 section |  |  |  |  |  |  |  |  |  | Jib 30.5 ft – 55.0 ft – 1 or 2 section |  |  |                |  |  |
|--------------------------------|--|--|--|--|--|--|--|--|--|----------------------------------------|--|--|----------------|--|--|
| 360° continuous                |  |  |  |  |  |  |  |  |  | 22 ft (6.7 m) Fully Extended (100 %)   |  |  |                |  |  |
|                                |  |  |  |  |  |  |  |  |  | Fixed Jib                              |  |  | Telescopic Jib |  |  |
|                                |  |  |  |  |  |  |  |  |  |                                        |  |  |                |  |  |
|                                |  |  |  |  |  |  |  |  |  |                                        |  |  |                |  |  |
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### Deductions from main boom capacities for stowed jibs

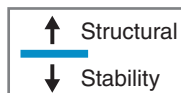
|           |         |         |         |         |         |
|-----------|---------|---------|---------|---------|---------|
| <b>FJ</b> | 590 lbs | 350 lbs | 270 lbs | 220 lbs | 180 lbs |
| <b>TJ</b> | 890 lbs | 530 lbs | 400 lbs | 330 lbs | 280 lbs |

**FJ** = Fixed jib · **TJ** = Telescopic jib



### NOTES:

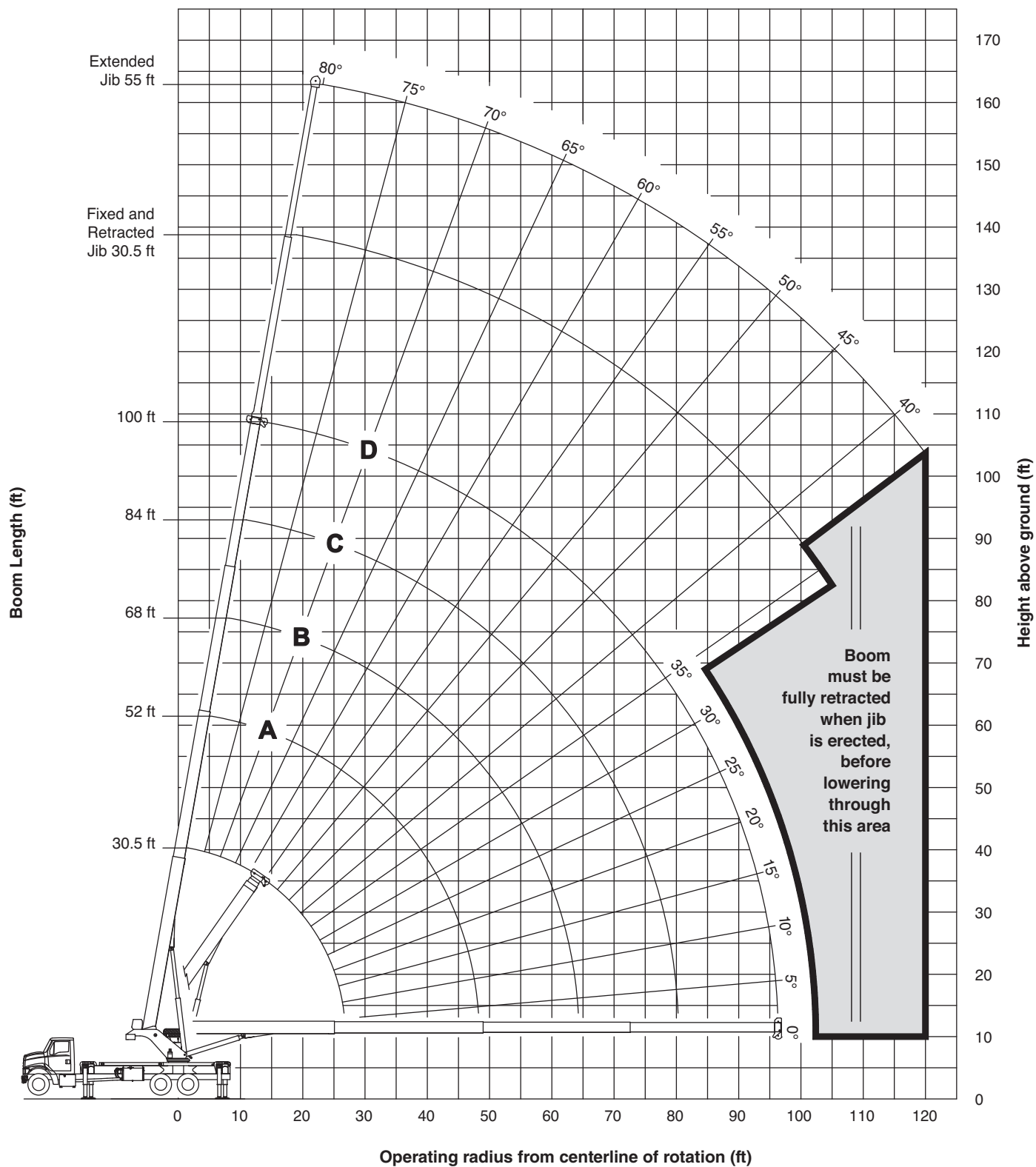
All loads rated at 360° pick  
 All “on outriggers” loads are based on 85% tipping  
 Loads based on crane on outriggers  
 Loads above heavy line are based on structural rating  
 Loads below heavy line are based on stability rating



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

# 40100S 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.

# 40100SHL Load Chart

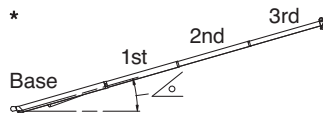
## Main Boom Jib

|  30.5 ft – 100.0 ft – 4 section |    |        |                                                                                   |        |    |                                                                                   |    |        |  360° continuous |        |   |                                                                                   |     |    |  Jib 30.5 ft – 55.0 ft – 1 or 2 section<br>Fully Extended (100 %) |    |       |           |       |   |                |  |  |
|------------------------------------------------------------------------------------------------------------------|----|--------|-----------------------------------------------------------------------------------|--------|----|-----------------------------------------------------------------------------------|----|--------|---------------------------------------------------------------------------------------------------|--------|---|-----------------------------------------------------------------------------------|-----|----|----------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|-----------|-------|---|----------------|--|--|
|                                                                                                                  |    |        |                                                                                   |        |    |                                                                                   |    |        |  22 ft (6.7 m)   |        |   |                                                                                   |     |    |                                                                                                                                                    |    |       |           |       |   |                |  |  |
|                                 |    |        |  |        |    |  |    |        |                  |        |   |  |     |    |                                                                   |    |       | Fixed Jib |       |   | Telescopic Jib |  |  |
| 30.5 ft                                                                                                          |    |        | 52 ft (A)                                                                         |        |    | 68 ft (B)                                                                         |    |        | 84 ft (C)                                                                                         |        |   | 100 ft (D)                                                                        |     |    | 30.5 ft                                                                                                                                            |    |       | 30.5 ft   |       |   | 55 ft          |  |  |
| ft                                                                                                               | °  | lbs    | °                                                                                 | lbs    | °  | lbs                                                                               | °  | lbs    | °                                                                                                 | lbs    | ° | lbs                                                                               | ft  | °  | lbs                                                                                                                                                | °  | lbs   | °         | lbs   | ° | lbs            |  |  |
| 5                                                                                                                | 74 | 80,000 | -                                                                                 | -      | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 5   | -  | -                                                                                                                                                  | -  | -     | -         | -     | - | -              |  |  |
| 8                                                                                                                | 68 | 61,000 | -                                                                                 | -      | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 8   | -  | -                                                                                                                                                  | -  | -     | -         | -     | - | -              |  |  |
| 10                                                                                                               | 64 | 52,860 | 76                                                                                | 31,500 | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 10  | -  | -                                                                                                                                                  | -  | -     | -         | -     | - | -              |  |  |
| 12                                                                                                               | 60 | 47,000 | 73                                                                                | 31,500 | 78 | 31,500                                                                            | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 12  | -  | -                                                                                                                                                  | -  | -     | -         | -     | - | -              |  |  |
| 15                                                                                                               | 53 | 40,280 | 70                                                                                | 31,500 | 76 | 31,500                                                                            | 79 | 23,700 | -                                                                                                 | -      | - | -                                                                                 | 15  | -  | -                                                                                                                                                  | -  | -     | -         | -     | - | -              |  |  |
| 20                                                                                                               | 40 | 31,870 | 64                                                                                | 28,680 | 71 | 26,820                                                                            | 76 | 20,600 | 79                                                                                                | 14,000 | - | -                                                                                 | 20  | -  | -                                                                                                                                                  | -  | -     | -         | -     | - | -              |  |  |
| 25                                                                                                               | 20 | 24,430 | 58                                                                                | 23,830 | 67 | 22,160                                                                            | 72 | 18,300 | 76                                                                                                | 13,500 | - | -                                                                                 | 25  | -  | -                                                                                                                                                  | -  | -     | -         | -     | - | -              |  |  |
| 30                                                                                                               | -  | -      | 51                                                                                | 20,400 | 62 | 19,080                                                                            | 69 | 15,870 | 73                                                                                                | 12,820 | - | -                                                                                 | 30  | 77 | 7,300                                                                                                                                              | 77 | 7,000 | -         | -     | - | -              |  |  |
| 35                                                                                                               | -  | -      | 43                                                                                | 15,980 | 57 | 16,200                                                                            | 65 | 13,950 | 70                                                                                                | 11,380 | - | -                                                                                 | 35  | 75 | 7,100                                                                                                                                              | 75 | 6,800 | 78        | 4,000 | - | -              |  |  |
| 40                                                                                                               | -  | -      | 34                                                                                | 12,890 | 52 | 13,110                                                                            | 61 | 12,350 | 67                                                                                                | 10,160 | - | -                                                                                 | 40  | 73 | 6,620                                                                                                                                              | 73 | 6,240 | 76        | 3,850 | - | -              |  |  |
| 45                                                                                                               | -  | -      | 22                                                                                | 10,610 | 46 | 10,840                                                                            | 57 | 10,960 | 64                                                                                                | 9,370  | - | -                                                                                 | 45  | 71 | 6,060                                                                                                                                              | 71 | 5,670 | 74        | 3,700 | - | -              |  |  |
| 50                                                                                                               | -  | -      | -                                                                                 | -      | 39 | 9,090                                                                             | 52 | 9,220  | 60                                                                                                | 8,430  | - | -                                                                                 | 50  | 69 | 5,550                                                                                                                                              | 69 | 5,150 | 73        | 3,550 | - | -              |  |  |
| 55                                                                                                               | -  | -      | -                                                                                 | -      | 32 | 7,710                                                                             | 48 | 7,830  | 57                                                                                                | 7,620  | - | -                                                                                 | 55  | 66 | 5,100                                                                                                                                              | 66 | 4,690 | 71        | 3,310 | - | -              |  |  |
| 60                                                                                                               | -  | -      | -                                                                                 | -      | 22 | 6,580                                                                             | 43 | 6,710  | 53                                                                                                | 6,790  | - | -                                                                                 | 60  | 64 | 4,680                                                                                                                                              | 64 | 4,210 | 69        | 3,090 | - | -              |  |  |
| 65                                                                                                               | -  | -      | -                                                                                 | -      | -  | -                                                                                 | 37 | 5,780  | 49                                                                                                | 5,860  | - | -                                                                                 | 65  | 61 | 4,210                                                                                                                                              | 61 | 3,740 | 67        | 2,900 | - | -              |  |  |
| 70                                                                                                               | -  | -      | -                                                                                 | -      | -  | -                                                                                 | 31 | 5,000  | 45                                                                                                | 5,070  | - | -                                                                                 | 70  | 59 | 3,800                                                                                                                                              | 59 | 3,330 | 65        | 2,710 | - | -              |  |  |
| 75                                                                                                               | -  | -      | -                                                                                 | -      | -  | -                                                                                 | 22 | 4,320  | 40                                                                                                | 4,410  | - | -                                                                                 | 75  | 56 | 3,440                                                                                                                                              | 56 | 2,970 | 63        | 2,550 | - | -              |  |  |
| 80                                                                                                               | -  | -      | -                                                                                 | -      | -  | -                                                                                 | 7  | 3,730  | 35                                                                                                | 3,830  | - | -                                                                                 | 80  | 53 | 3,120                                                                                                                                              | 53 | 2,660 | 61        | 2,400 | - | -              |  |  |
| 85                                                                                                               | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | 30                                                                                                | 3,320  | - | -                                                                                 | 85  | 50 | 2,840                                                                                                                                              | 50 | 2,370 | 59        | 2,270 | - | -              |  |  |
| 90                                                                                                               | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | 22                                                                                                | 2,880  | - | -                                                                                 | 90  | 47 | 2,590                                                                                                                                              | 47 | 2,120 | 56        | 2,080 | - | -              |  |  |
| 95                                                                                                               | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | 11                                                                                                | 2,470  | - | -                                                                                 | 95  | 43 | 2,350                                                                                                                                              | 43 | 1,890 | 54        | 1,890 | - | -              |  |  |
| 100                                                                                                              | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 100 | 40 | 2,150                                                                                                                                              | 40 | 1,690 | 52        | 1,710 | - | -              |  |  |
| 105                                                                                                              | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 105 | 36 | 1,960                                                                                                                                              | 36 | 1,500 | 49        | 1,540 | - | -              |  |  |
| 110                                                                                                              | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 110 | 32 | 1,760                                                                                                                                              | 32 | 1,300 | 46        | 1,390 | - | -              |  |  |
| 115                                                                                                              | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 115 | 27 | 1,500                                                                                                                                              | 27 | 1,090 | 43        | 1,250 | - | -              |  |  |
| 120                                                                                                              | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 120 | 21 | 1,270                                                                                                                                              | 21 | 850   | 40        | 1,120 | - | -              |  |  |
| 125                                                                                                              | -  | -      | -                                                                                 | -      | -  | -                                                                                 | -  | -      | -                                                                                                 | -      | - | -                                                                                 | 125 | 13 | 1,040                                                                                                                                              | 13 | 630   | 37        | 1,000 | - | -              |  |  |

### Deductions from main boom capacities for stowed jibs

|            |         |         |         |         |         |
|------------|---------|---------|---------|---------|---------|
| <b>SFJ</b> | 590 lbs | 350 lbs | 270 lbs | 220 lbs | 180 lbs |
| <b>STJ</b> | 890 lbs | 530 lbs | 400 lbs | 330 lbs | 280 lbs |

SFJ = Stowed fixed jib · STJ = Stowed telescopic jib



### NOTES:

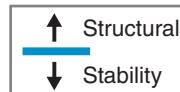
All loads rated at 360° pick

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

Loads based on crane on outriggers

Loads above heavy line are based on structural rating

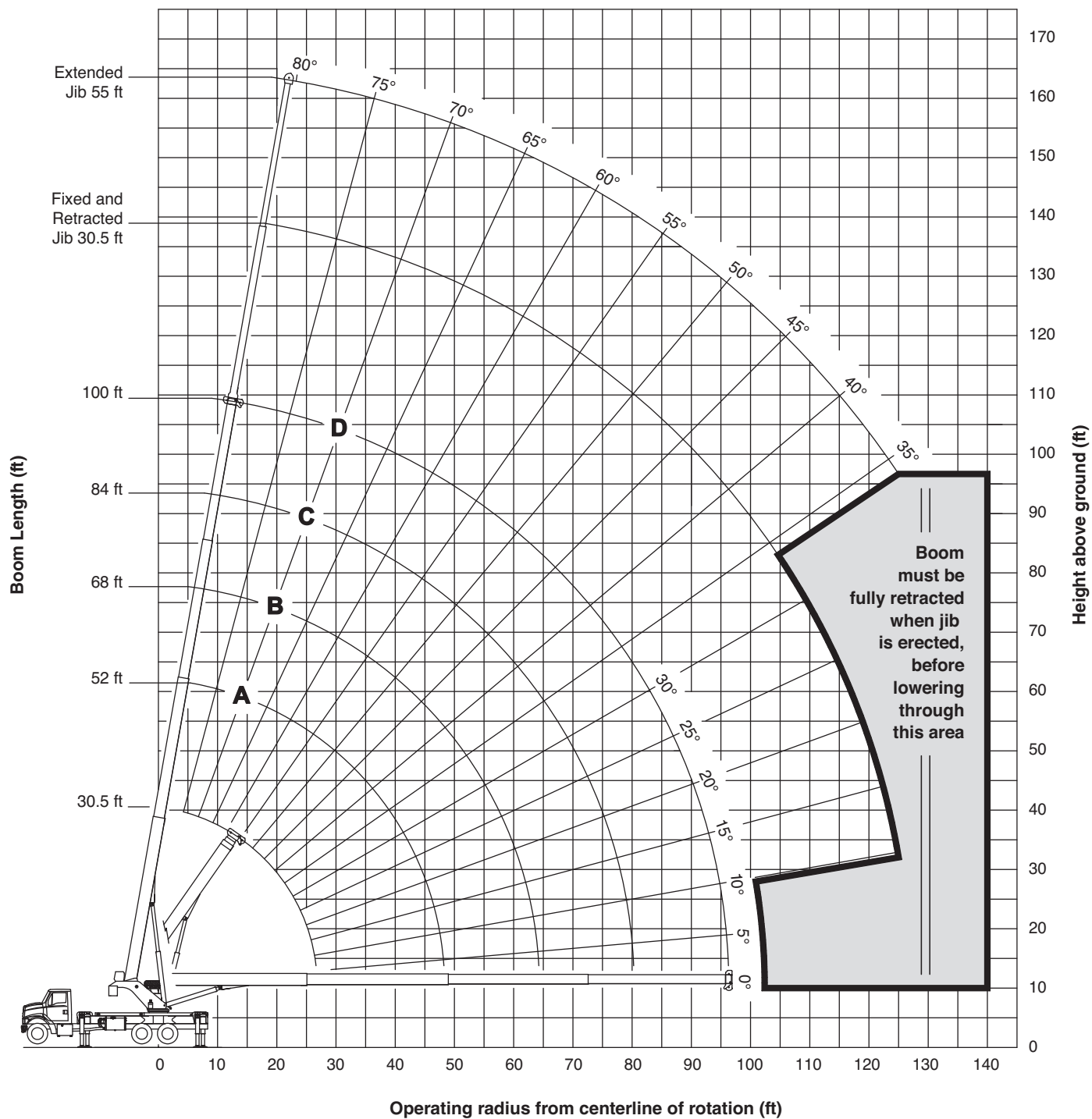
Loads below heavy line are based on stability rating



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

# 40100SHL 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.

# 40124S Load Chart

## Main Boom Jib

| 30.8 ft – 123.5 ft – 5 section |    |        |               |        |               | 360° continuous |               | 22 ft (6.7 m) |               | Fully Extended (100 %) |               |        |               |        |               |        |               |       |
|--------------------------------|----|--------|---------------|--------|---------------|-----------------|---------------|---------------|---------------|------------------------|---------------|--------|---------------|--------|---------------|--------|---------------|-------|
| 30.8 ft                        |    |        | 47 ft (A)     |        | 58 ft (B)     |                 | 69 ft (C)     |               | 80 ft (D)     |                        | 91 ft (E)     |        | 102 ft (F)    |        | 113 ft (G)    |        | 123.5 ft (H)  |       |
| Load capacity                  |    |        | 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    | °             | lbs   |
| 5                              | 75 | 80,000 | -             | -      | -             | -               | -             | -             | -             | -                      | -             | -      | -             | -      | -             | -      | -             | -     |
| 8                              | 69 | 60,500 | -             | -      | -             | -               | -             | -             | -             | -                      | -             | -      | -             | -      | -             | -      | -             | -     |
| 10                             | 64 | 52,500 | 74            | 25,000 | -             | -               | -             | -             | -             | -                      | -             | -      | -             | -      | -             | -      | -             | -     |
| 12                             | 60 | 46,600 | 72            | 25,000 | 76            | 25,000          | 79            | 25,000        | -             | -                      | -             | -      | -             | -      | -             | -      | -             | -     |
| 15                             | 53 | 39,600 | 68            | 25,000 | 73            | 25,000          | 76            | 25,000        | 79            | 21,500                 | -             | -      | -             | -      | -             | -      | -             | -     |
| 20                             | 40 | 30,300 | 61            | 25,000 | 67            | 25,000          | 72            | 23,900        | 75            | 19,700                 | 78            | 17,100 | 79            | 14,500 | -             | -      | -             | -     |
| 25                             | 22 | 23,070 | 53            | 23,760 | 62            | 22,840          | 67            | 21,650        | 71            | 18,200                 | 74            | 15,850 | 77            | 13,500 | 78            | 10,910 | 80            | 8,450 |
| 30                             | -  | -      | 45            | 18,430 | 56            | 18,670          | 63            | 18,720        | 67            | 16,250                 | 71            | 14,530 | 74            | 12,820 | 76            | 10,430 | 78            | 8,150 |
| 35                             | -  | -      | 36            | 14,200 | 49            | 14,450          | 58            | 14,600        | 63            | 14,540                 | 68            | 12,960 | 71            | 11,380 | 73            | 9,540  | 75            | 7,800 |
| 40                             | -  | -      | 22            | 10,880 | 42            | 11,190          | 52            | 11,370        | 59            | 11,490                 | 64            | 11,570 | 68            | 10,160 | 71            | 8,680  | 73            | 7,280 |
| 45                             | -  | -      | -             | -      | 34            | 8,820           | 47            | 9,000         | 55            | 9,110                  | 60            | 9,190  | 65            | 9,250  | 68            | 8,040  | 71            | 6,780 |
| 50                             | -  | -      | -             | -      | 23            | 7,030           | 40            | 7,230         | 50            | 7,340                  | 56            | 7,420  | 61            | 7,480  | 65            | 7,260  | 68            | 6,160 |
| 55                             | -  | -      | -             | -      | -             | -               | 34            | 5,850         | 45            | 5,970                  | 52            | 6,050  | 58            | 6,110  | 62            | 6,150  | 65            | 5,540 |
| 60                             | -  | -      | -             | -      | -             | -               | 24            | 4,750         | 39            | 4,880                  | 48            | 4,960  | 54            | 5,020  | 59            | 5,060  | 62            | 5,000 |
| 65                             | -  | -      | -             | -      | -             | -               | 6             | 3,810         | 33            | 3,980                  | 43            | 4,070  | 51            | 4,130  | 56            | 4,170  | 59            | 4,200 |
| 70                             | -  | -      | -             | -      | -             | -               | -             | -             | 25            | 3,230                  | 38            | 3,330  | 47            | 3,390  | 53            | 3,430  | 57            | 3,460 |
| 75                             | -  | -      | -             | -      | -             | -               | -             | -             | 12            | 2,580                  | 32            | 2,700  | 42            | 2,760  | 49            | 2,800  | 54            | 2,830 |
| 80                             | -  | -      | -             | -      | -             | -               | -             | -             | -             | -                      | 25            | 2,150  | 37            | 2,220  | 45            | 2,270  | 51            | 2,300 |
| 85                             | -  | -      | -             | -      | -             | -               | -             | -             | -             | -                      | 15            | 1,670  | 32            | 1,750  | 41            | 1,800  | 47            | 1,840 |
| 90                             | -  | -      | -             | -      | -             | -               | -             | -             | -             | -                      | -             | -      | 26            | 1,340  | 37            | 1,400  | 44            | 1,430 |
| 95                             | -  | -      | -             | -      | -             | -               | -             | -             | -             | -                      | -             | -      | 17            | 970    | 32            | 1,030  | 40            | 1,070 |
| 100                            | -  | -      | -             | -      | -             | -               | -             | -             | -             | -                      | -             | -      | -             | -      | 26            | 710    | 36            | 750   |
| 105                            | -  | -      | -             | -      | -             | -               | -             | -             | -             | -                      | -             | -      | -             | -      | -             | -      | -             | -     |
| 110                            | -  | -      | -             | -      | -             | -               | -             | -             | -             | -                      | -             | -      | -             | -      | -             | -      | -             | -     |
| 115                            | -  | -      | -             | -      | -             | -               | -             | -             | -             | -                      | -             | -      | -             | -      | -             | -      | -             | -     |

### Deductions from main boom capacities for stowed jibs

| SFJ | 450 lbs | 300 lbs | 240 lbs | 200 lbs | 180 lbs | 160 lbs | 140 lbs | 130 lbs | 120 lbs |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| STJ | 840 lbs | 560 lbs | 450 lbs | 380 lbs | 330 lbs | 290 lbs | 260 lbs | 230 lbs | 210 lbs |

SFJ = Stowed fixed jib · STJ = Stowed telescopic jib

### NOTES:

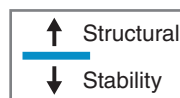
All loads rated at 360° pick

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

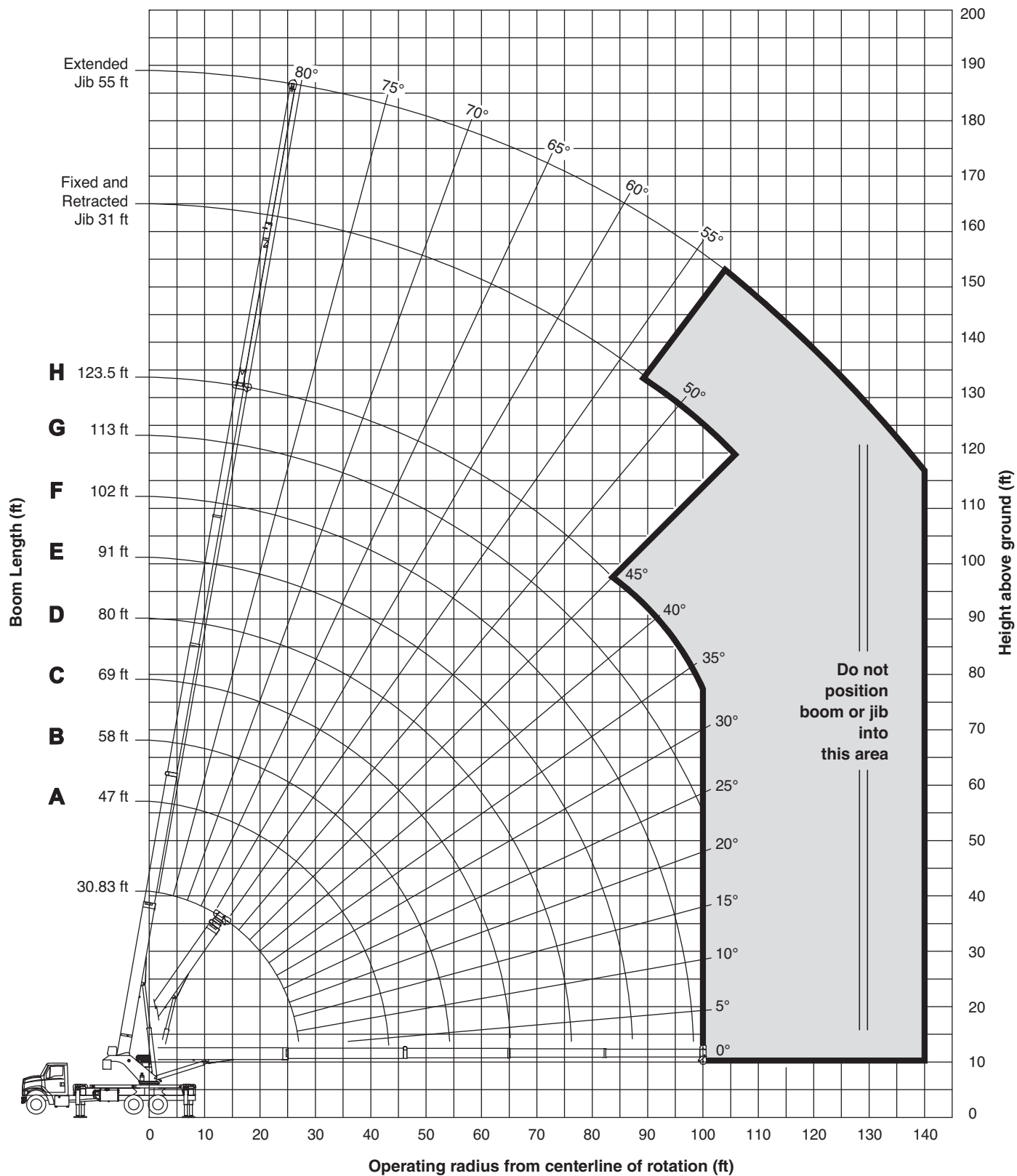


| Jib 31 ft – 55 ft – 1 or 2 section                                                  |                                                                                     |               |                                                                                     |               |                                                                                     |  360° continuous |                                                                                     |  22 ft (6.7 m) |               |                                                                                       | Fully Extended (100 %) |                                                                                       |               |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------|---------------|--|
| Fixed Jib                                                                           |                                                                                     |               | Telescopic Jib                                                                      |               |                                                                                     |                                                                                                     | Fixed Jib                                                                           |                                                                                                   |               | Telescopic Jib                                                                        |                        |                                                                                       |               |  |
| 31 ft                                                                               |                                                                                     |               | 30.5 ft                                                                             |               | 55 ft                                                                               |                                                                                                     | 31 ft                                                                               |                                                                                                   |               | 30.5 ft                                                                               |                        | 55 ft                                                                                 |               |  |
|  |  | Load capacity |  | Load capacity |  | Load capacity                                                                                       |  |                | Load capacity |  | Load capacity          |  | Load capacity |  |
| ft                                                                                  | °                                                                                   | lbs           | °                                                                                   | lbs           | °                                                                                   | lbs                                                                                                 | ft                                                                                  | °                                                                                                 | lbs           | °                                                                                     | lbs                    | °                                                                                     | lbs           |  |
| 30                                                                                  | 80                                                                                  | 4,000         | 79.5                                                                                | 3,300         | -                                                                                   | -                                                                                                   | 80                                                                                  | 60                                                                                                | 2,460         | 60                                                                                    | 2,050                  | 64.5                                                                                  | 1,940         |  |
| 35                                                                                  | 78                                                                                  | 3,850         | 77.5                                                                                | 3,300         | 79.5                                                                                | 2,450                                                                                               | 85                                                                                  | 58                                                                                                | 2,260         | 58                                                                                    | 1,660                  | 63                                                                                    | 1,750         |  |
| 40                                                                                  | 76                                                                                  | 3,700         | 76                                                                                  | 3,300         | 78                                                                                  | 2,450                                                                                               | 90                                                                                  | 55                                                                                                | 1,850         | 55.5                                                                                  | 1,250                  | 61                                                                                    | 1,580         |  |
| 45                                                                                  | 74                                                                                  | 3,550         | 74                                                                                  | 3,300         | 76.5                                                                                | 2,450                                                                                               | 95                                                                                  | 53                                                                                                | 1,490         | 53                                                                                    | 890                    | 59                                                                                    | 1,440         |  |
| 50                                                                                  | 72                                                                                  | 3,400         | 72                                                                                  | 3,300         | 75                                                                                  | 2,450                                                                                               | 100                                                                                 | 51                                                                                                | 1,170         | 50.5                                                                                  | 570                    | 57                                                                                    | 1,260         |  |
| 55                                                                                  | 70                                                                                  | 3,250         | 70.5                                                                                | 3,300         | 73                                                                                  | 2,450                                                                                               | 105                                                                                 | 48                                                                                                | 880           | -                                                                                     | -                      | 55                                                                                    | 970           |  |
| 60                                                                                  | 68                                                                                  | 3,080         | 68.5                                                                                | 3,300         | 71.5                                                                                | 2,450                                                                                               | 110                                                                                 | 45                                                                                                | 620           | -                                                                                     | -                      | 53                                                                                    | 710           |  |
| 65                                                                                  | 66                                                                                  | 2,910         | 66.5                                                                                | 3,070         | 70                                                                                  | 2,420                                                                                               | 115                                                                                 | -                                                                                                 | -             | -                                                                                     | -                      | -                                                                                     | -             |  |
| 70                                                                                  | 64                                                                                  | 2,750         | 64.5                                                                                | 2,750         | 68                                                                                  | 2,260                                                                                               | 120                                                                                 | -                                                                                                 | -             | -                                                                                     | -                      | -                                                                                     | -             |  |
| 75                                                                                  | 62                                                                                  | 2,600         | 62                                                                                  | 2,380         | 66                                                                                  | 2,110                                                                                               | 125                                                                                 | -                                                                                                 | -             | -                                                                                     | -                      | -                                                                                     | -             |  |

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

# 40124S 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.

# 40124SHL Load Chart

## Main Boom Jib

|  30.8 ft – 123.5 ft – 5 section |    |        |  360° continuous |        |    |  22 ft (6.7 m) |    |        | Fully Extended (100 %)                                                                          |        |    |                                                                                                 |    |        |                                                                                                 |        |    |                                                                                                   |   |     |                                                                                                   |     |   |                                                                                                   |   |     |
|------------------------------------------------------------------------------------------------------------------|----|--------|---------------------------------------------------------------------------------------------------|--------|----|-------------------------------------------------------------------------------------------------|----|--------|-------------------------------------------------------------------------------------------------|--------|----|-------------------------------------------------------------------------------------------------|----|--------|-------------------------------------------------------------------------------------------------|--------|----|---------------------------------------------------------------------------------------------------|---|-----|---------------------------------------------------------------------------------------------------|-----|---|---------------------------------------------------------------------------------------------------|---|-----|
|  30.8 ft                        |    |        |  47 ft (A)       |        |    |  58 ft (B)     |    |        |  69 ft (C)     |        |    |  80 ft (D)     |    |        |  91 ft (E)     |        |    |  102 ft (F)    |   |     |  113 ft (G)    |     |   |  123.5 ft (H)  |   |     |
|  Load capacity                  |    |        |  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    | °  | lbs                                                                                               | ° | lbs | °                                                                                                 | lbs | ° | lbs                                                                                               | ° | lbs |
| 5                                                                                                                | 75 | 80,000 | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                                 | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 8                                                                                                                | 69 | 60,500 | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                                 | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 10                                                                                                               | 64 | 52,500 | 74                                                                                                | 25,000 | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                                 | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 12                                                                                                               | 60 | 46,600 | 72                                                                                                | 25,000 | 76 | 25,000                                                                                          | 79 | 25,000 | -                                                                                               | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                                 | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 15                                                                                                               | 53 | 39,600 | 68                                                                                                | 25,000 | 73 | 25,000                                                                                          | 76 | 25,000 | 79                                                                                              | 21,500 | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                                 | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 20                                                                                                               | 40 | 31,330 | 61                                                                                                | 25,000 | 67 | 25,000                                                                                          | 72 | 23,900 | 75                                                                                              | 19,700 | 78 | 17,100                                                                                          | 79 | 14,500 | -                                                                                               | -      | -  | -                                                                                                 | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 25                                                                                                               | 22 | 24,100 | 53                                                                                                | 24,010 | 62 | 22,840                                                                                          | 67 | 21,650 | 71                                                                                              | 18,200 | 74 | 15,850                                                                                          | 77 | 13,500 | 78                                                                                              | 10,910 | 80 | 8,450                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 30                                                                                                               | -  | -      | 45                                                                                                | 20,260 | 56 | 19,550                                                                                          | 63 | 18,720 | 67                                                                                              | 16,250 | 71 | 14,530                                                                                          | 74 | 12,820 | 76                                                                                              | 10,430 | 78 | 8,150                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 35                                                                                                               | -  | -      | 36                                                                                                | 15,850 | 49 | 16,100                                                                                          | 58 | 16,130 | 63                                                                                              | 14,540 | 68 | 12,960                                                                                          | 71 | 11,380 | 73                                                                                              | 9,540  | 75 | 7,800                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 40                                                                                                               | -  | -      | 22                                                                                                | 12,630 | 42 | 12,900                                                                                          | 52 | 13,060 | 59                                                                                              | 13,070 | 64 | 11,610                                                                                          | 68 | 10,160 | 71                                                                                              | 8,680  | 73 | 7,280                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 45                                                                                                               | -  | -      | -                                                                                                 | -      | 34 | 10,540                                                                                          | 47 | 10,700 | 55                                                                                              | 10,800 | 60 | 10,600                                                                                          | 65 | 9,370  | 68                                                                                              | 8,040  | 71 | 6,780                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 50                                                                                                               | -  | -      | -                                                                                                 | -      | 23 | 8,720                                                                                           | 40 | 8,890  | 50                                                                                              | 9,000  | 56 | 9,070                                                                                           | 61 | 8,430  | 65                                                                                              | 7,260  | 68 | 6,160                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 55                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | 34 | 7,460  | 45                                                                                              | 7,570  | 52 | 7,640                                                                                           | 58 | 7,620  | 62                                                                                              | 6,550  | 65 | 5,540                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 60                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | 24 | 6,280  | 39                                                                                              | 6,400  | 48 | 6,480                                                                                           | 54 | 6,530  | 59                                                                                              | 5,930  | 62 | 5,000                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 65                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | 6  | 5,270  | 33                                                                                              | 5,430  | 43 | 5,510                                                                                           | 51 | 5,570  | 56                                                                                              | 5,380  | 59 | 4,520                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 70                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | 25                                                                                              | 4,610  | 38 | 4,700                                                                                           | 47 | 4,760  | 53                                                                                              | 4,790  | 57 | 4,090                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 75                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | 12                                                                                              | 3,900  | 32 | 4,010                                                                                           | 42 | 4,060  | 49                                                                                              | 4,100  | 54 | 3,700                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 80                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | 25 | 3,400                                                                                           | 37 | 3,470  | 45                                                                                              | 3,510  | 51 | 3,350                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 85                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | 15 | 2,860                                                                                           | 32 | 2,940  | 41                                                                                              | 2,990  | 47 | 3,020                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 90                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | 26 | 2,480  | 37                                                                                              | 2,530  | 44 | 2,560                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 95                                                                                                               | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | 17 | 2,060  | 32                                                                                              | 2,120  | 40 | 2,150                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 100                                                                                                              | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | -  | -      | 26                                                                                              | 1,750  | 36 | 1,790                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 105                                                                                                              | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | -  | -      | 18                                                                                              | 1,410  | 31 | 1,460                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 110                                                                                                              | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | 26 | 1,160                                                                                             | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |
| 115                                                                                                              | -  | -      | -                                                                                                 | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | -  | -                                                                                               | -  | -      | -                                                                                               | -      | 19 | 880                                                                                               | - | -   | -                                                                                                 | -   | - | -                                                                                                 | - |     |

### Deductions from main boom capacities for stowed jibs

| SFJ | 450 lbs | 300 lbs | 240 lbs | 200 lbs | 180 lbs | 160 lbs | 140 lbs | 130 lbs | 120 lbs |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| STJ | 840 lbs | 560 lbs | 450 lbs | 380 lbs | 330 lbs | 290 lbs | 260 lbs | 230 lbs | 210 lbs |

SFJ = Stowed fixed jib · STJ = Stowed telescopic jib

### NOTES:

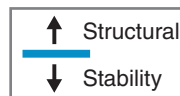
All loads rated at 360° pick

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

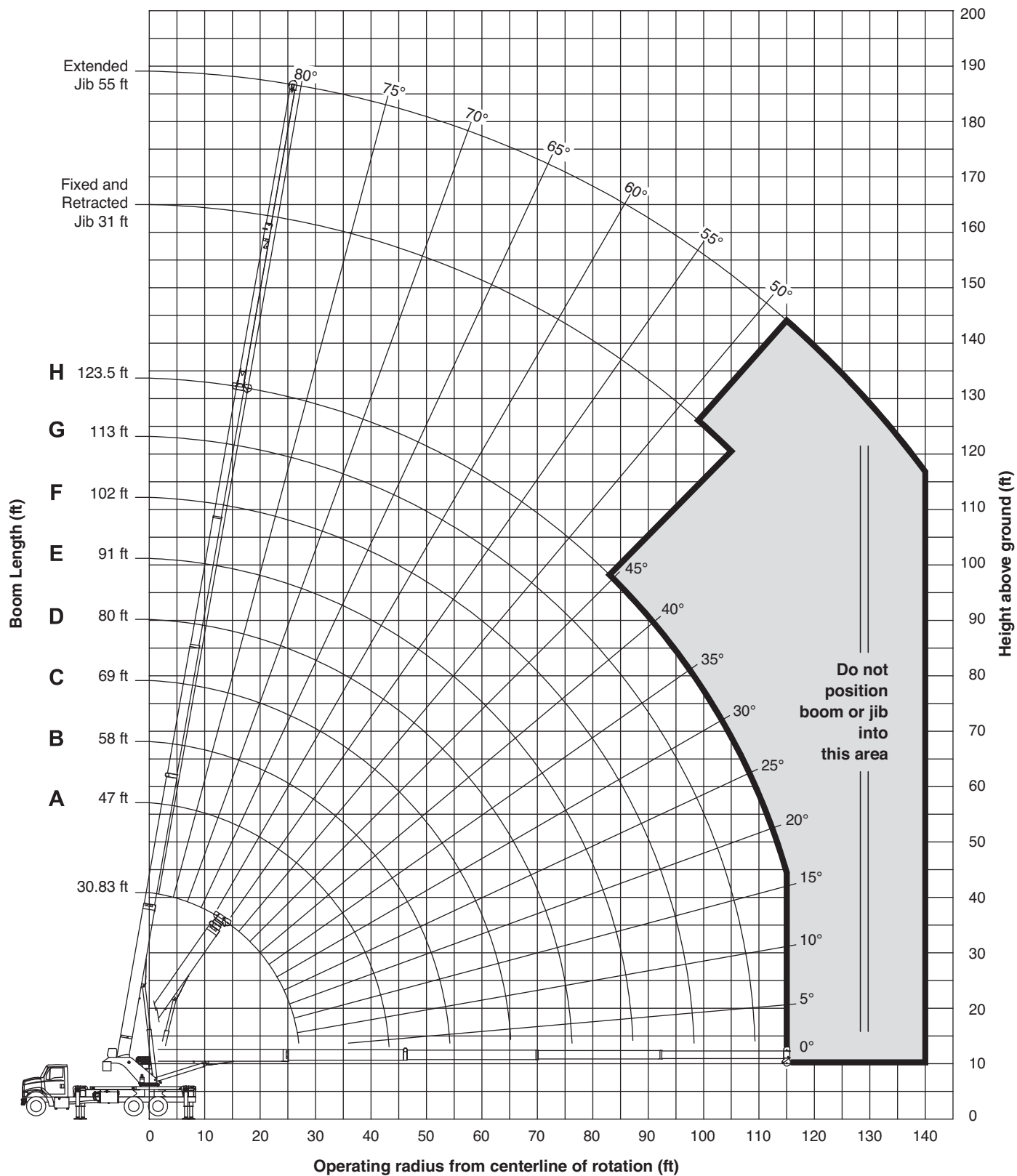


| Jib 31 ft – 55 ft – 1 or 2 section                                                  |                                                                                     |               |                                                                                     |               |                                                                                     |  360° continuous |                                                                                     |  22 ft (6.7 m) |               | Fully Extended (100 %)                                                                |               |                                                                                       |               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|---------------|
| Fixed Jib                                                                           |                                                                                     |               | Telescopic Jib                                                                      |               |                                                                                     |                                                                                                     | Fixed Jib                                                                           |                                                                                                   |               | Telescopic Jib                                                                        |               |                                                                                       |               |
| 31 ft                                                                               |                                                                                     |               | 30.5 ft                                                                             |               | 55 ft                                                                               |                                                                                                     | 31 ft                                                                               |                                                                                                   |               | 30.5 ft                                                                               |               | 55 ft                                                                                 |               |
|  |  | Load capacity |  | Load capacity |  | Load capacity                                                                                       |  |                | Load capacity |  | Load capacity |  | Load capacity |
| ft                                                                                  | °                                                                                   | lbs           | °                                                                                   | lbs           | °                                                                                   | lbs                                                                                                 | ft                                                                                  | °                                                                                                 | lbs           | °                                                                                     | lbs           | °                                                                                     | lbs           |
| 30                                                                                  | 80                                                                                  | 4,000         | 79.5                                                                                | 3,300         | -                                                                                   | -                                                                                                   | 80                                                                                  | 60                                                                                                | 2,460         | 60                                                                                    | 2,050         | 64.5                                                                                  | 1,940         |
| 35                                                                                  | 78                                                                                  | 3,850         | 77.5                                                                                | 3,300         | 79.5                                                                                | 2,450                                                                                               | 85                                                                                  | 58                                                                                                | 2,320         | 58                                                                                    | 1,760         | 63                                                                                    | 1,750         |
| 40                                                                                  | 76                                                                                  | 3,700         | 76                                                                                  | 3,300         | 78                                                                                  | 2,450                                                                                               | 90                                                                                  | 55                                                                                                | 2,170         | 55.5                                                                                  | 1,500         | 61                                                                                    | 1,580         |
| 45                                                                                  | 74                                                                                  | 3,550         | 74                                                                                  | 3,300         | 76.5                                                                                | 2,450                                                                                               | 95                                                                                  | 53                                                                                                | 1,930         | 53                                                                                    | 1,260         | 59                                                                                    | 1,440         |
| 50                                                                                  | 72                                                                                  | 3,400         | 72                                                                                  | 3,300         | 75                                                                                  | 2,450                                                                                               | 100                                                                                 | 51                                                                                                | 1,720         | 50.5                                                                                  | 1,050         | 57                                                                                    | 1,280         |
| 55                                                                                  | 70                                                                                  | 3,250         | 70.5                                                                                | 3,300         | 73                                                                                  | 2,450                                                                                               | 105                                                                                 | 48                                                                                                | 1,530         | 48                                                                                    | 850           | 55                                                                                    | 1,100         |
| 60                                                                                  | 68                                                                                  | 3,080         | 68.5                                                                                | 3,300         | 71.5                                                                                | 2,450                                                                                               | 110                                                                                 | 45                                                                                                | 1,350         | -                                                                                     | -             | 53                                                                                    | 930           |
| 65                                                                                  | 66                                                                                  | 2,910         | 66.5                                                                                | 3,070         | 70                                                                                  | 2,420                                                                                               | 115                                                                                 | 43                                                                                                | 1,200         | -                                                                                     | -             | 51                                                                                    | 770           |
| 70                                                                                  | 64                                                                                  | 2,750         | 64.5                                                                                | 2,750         | 68                                                                                  | 2,260                                                                                               | 120                                                                                 | 40                                                                                                | 1,020         | -                                                                                     | -             | -                                                                                     | -             |
| 75                                                                                  | 62                                                                                  | 2,600         | 62                                                                                  | 2,380         | 66                                                                                  | 2,110                                                                                               | 125                                                                                 | 36                                                                                                | 800           | -                                                                                     | -             | -                                                                                     | -             |

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

# 40124SHL Boom Diagram

## Main Boom Jib



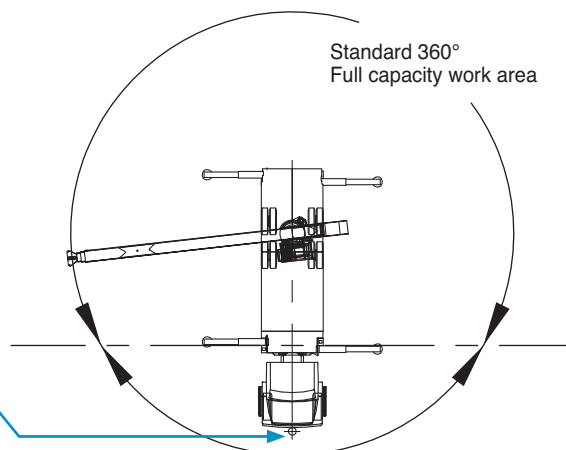
Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

# Area of Operation · Reeving Diagram

## Area of Operation

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

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.

## 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><br><br>5/8" rot resistant (5.0 : 1 SF) 47,500 lbs min. breaking strength<br><br>5/8" 6 x 25 IWRC (3.5 : 1 SF) 35,000 lbs min. breaking strength |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 part line         | 2 part line | 3 part line | 4 part line | 5 part line | 6 part line | 7 part line | 8 part line |                                                                                                                                                                                                                                                                                                                                                                                      |
|                     |             |             |             |             |             |             |             |                                                                                                                                                                                                                                                                                                                                                                                      |
| 9,500 lbs           | 19,000 lbs  | 28,500 lbs  | 38,000 lbs  | 47,500 lbs  | 57,000 lbs  | 66,500 lbs  | 76,000 lbs  |                                                                                                                                                                                                                                                                                                                                                                                      |
| 10,000 lbs          | 20,000 lbs  | 30,000 lbs  | 40,000 lbs  | 50,000 lbs  | 60,000 lbs  | 70,000 lbs  | 80,000 lbs  |                                                                                                                                                                                                                                                                                                                                                                                      |

# LMI Operating Codes

| LMI Operating Codes |                                                          |                         |                   |
|---------------------|----------------------------------------------------------|-------------------------|-------------------|
| Code                | Crane Configuration                                      | Outrigger Configuration | Area of Operation |
| 1                   | Main boom                                                | Fully extended          | Full 360°         |
| 32                  | Fixed jib                                                | Fully extended          | Full 360°         |
| 7                   | Telescopic jib – Retracted                               | Fully extended          | Full 360°         |
| 13                  | Telescopic jib – Extended                                | Fully extended          | Full 360°         |
| 25                  | Personnel lifting platform on main boom                  | Fully extended          | Full 360°         |
| 33                  | Personnel lifting platform on fixed jib                  | Fully extended          | Full 360°         |
| 26                  | Personnel lifting platform on telescopic jib – Retracted | Fully extended          | Full 360°         |
| 29                  | Personnel lifting platform on telescopic jib – Extended  | Fully extended          | Full 360°         |
| 4                   | Main boom                                                | Mid extension           | Full 360°         |
| 34                  | Fixed jib                                                | Mid extension           | Full 360°         |
| 19                  | Telescopic jib – Retracted                               | Mid extension           | Full 360°         |
| 22                  | Telescopic jib – Extended                                | Mid extension           | Full 360°         |
| 5                   | Main boom                                                | Fully retracted         | Full 360°         |

## WARNING

1. The operator must read and understand the owner's manual before operating the crane.
2. Positioning or operation of crane beyond areas shown on these charts is not intended or approved except where specified in owner's manual.
3. Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for deflections. Do not exceed the operating radius for rated loads.
4. The operating radius shown in the jib rating chart is for fully extended boom only. When boom is not fully extended, use only loaded boom angle to determine load rating of jib.
5. For boom angles not shown on jib load rating chart, use rating of next lower boom angle.
6. For boom lengths not shown, use rating of next shorter or longer boom length, whichever is less. For radii not shown, use rating of next longer radius.
7. Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on a firm uniform supporting surface. No attempt shall be made to move a load horizontally on the ground in any direction.
8. Practical working loads depend on supporting surface, wind, and other factors affecting stability such as hazardous surroundings, experience of personnel, and proper handling, all of which must be taken into account by the operator.
9. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, and boom lubrication. It is safe to attempt to telescope any load within the limits of the load rating chart. Boom must be fully retracted against boom stops at all times when lifting minimum boom length capacity loads.
10. Lifting off the main boom point while the swing around jib is erected is not intended or approved.

## INFORMATION

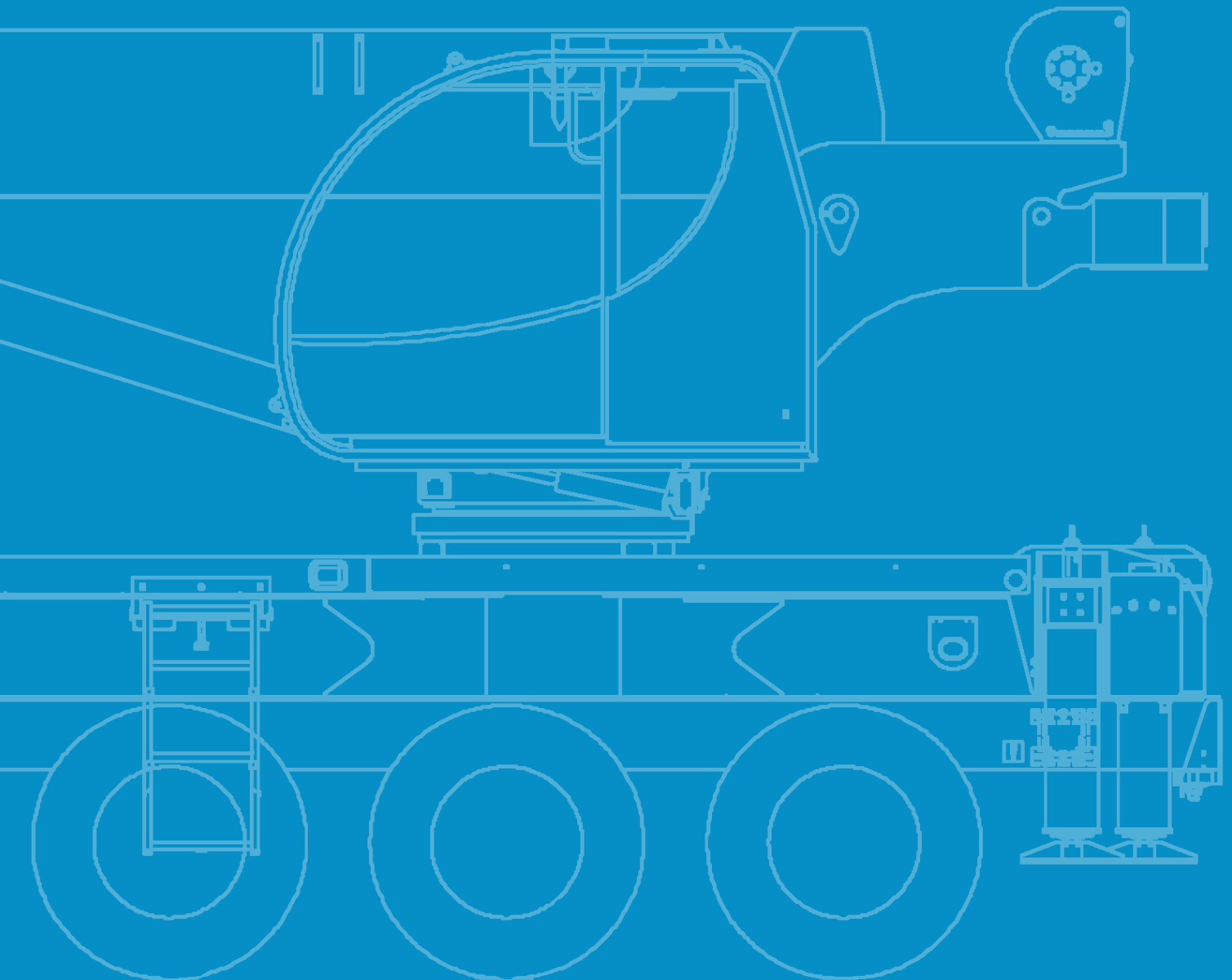
1. Deductions must be made from rated loads for stowed jib, optional attachments, hooks, and load blocks (see deduction chart on page 10). Weights of slings and all other load handling devices shall be considered a part of the load.
2. Load ratings above the blue line are structurally limited capacities. Load ratings below the blue line are stability limited capacities and do not exceed 85% of tipping.

## DEFINITIONS

1. Operating radius is the horizontal distance from the axis of rotation to the center of the vertical hoist line or tackle with load applied.
2. Loaded boom angle as shown in the column head by  is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius.

## Notes

**TC400**



# Technical Description

## Boom



Boom lengths: Proportional boom

- 3-section 77 ft (23.5 m)
- 4-section 100 ft (30.1 m)
- 5-section 124 ft (37.8 m)

5-sheave quick reeve boom point  
Self lubricating slider pads



Max. tip height 4077S/SHL: 86 ft (26.2 m)  
Max. tip height 40100S/SHL: 108.7 ft (33.1 m)  
Max. tip height 40124S/SHL: 131.8 ft (40.2 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



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

## Outriggers



Outriggers: Out-and-down style  
FBS – Front Bumper Stabilizer (optional)  
Outrigger monitoring system (for verification only)  
Outrigger motion alarm

Full extension

- Front and rear: 22 ft (6.7 m)

Middle extension

- Front and rear: 14.3 ft (4.4 m)

Full retraction

- Front and rear: 7.1 ft (2.2 m)



ROC Solid – Radio operated handheld controller for outrigger and FBS setup

## Operator Aids



Wired LMI with crane function cut-offs for overload protection  
Wired anti-two block system

# 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:  
0.625 in. (15.9 mm) rotation resistant



Line length:  
380 ft (115.8 m)



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



Load block:  
5 t (4.5 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)  
3-section vane pump, SAE C input  
Hydraulic reservoir capacity: 115 gallons (435 l)  
Pump sections @ 2000 rpm with 100 psi

- Shaft end pump: 41.67 gpm (158 lpm)
- Center pump: 28.3 gpm (107 lpm)
- Cover end pump: 11.7 gpm (44 lpm)

## Tilttable Cab / Cab Controls



Standard features:  
Curved glass, 0° to 20° cab tilt, automotive door, heated cloth seat, 8 seat adjustments, lumbar support and adjustable head rest, sliding windows, rear pop out window, top hinged hatch, standard diesel fired heater, retractable sun screen, 12 volt DC outlet, E-coated cab (10 year rust warranty)



Controls:  
PLC crane controller, CANBUS communication, J1939 truck engine communication capability, electronic hand and foot throttle, Hirschmann / PAT iScout D3 LMI system

# Technical Description – Options

## Boom

### Max. Tip Height



- 4077S and 4077SHL
- Max. tip height: 86 ft (26.2 m)
- 40100S and 40100SHL
- Max. tip height: 108.7 ft (33.1 m)
- 40124S and 40124SHL
- Max. tip height: 131.8 ft (40.2 m)

### Jibs

- 40100S, 40100SHL, 40124S and 40124SHL
- 1-section fixed jib: 30.5 ft (9.3 m)
  - 2-section telescopic jib: 30.5 ft (9.3 m) to 55 ft (16.8 m)

### Max. Tip Height with Extension



- 40100S and 40100SHL
- Max. tip height with extension: 163.5 ft (49.8 m)
  - Max. tip height with extension retracted: 139.3 ft (42.4 m)
- 40124S and 40124SHL
- Max. tip height with extension: 186.7 ft (56.9 m)
  - Max. tip height with extension retracted: 163.0 ft (49.7 m)

### Max. Boom Length



- 4077S
- Max. boom length: 76.8 ft (23.4 m)



- 40100S
- Max. boom length with extension: 155.0 ft (47.2 m)
- 40124S and 40124SHL
- Max. boom length with extension: 178.5 ft (54.4 m)



- 40100S
- Max. boom length with extension retracted: 130.5 ft (39.8 m)
- 40124S and 40124SHL
- Max. boom length with extension retracted: 154.0 ft (46.9 m)

### Bulkhead

24 in. (607 mm) bulkhead

# Technical Description – Options

## Hoist and Hook



Auxiliary winch same as main winch, includes rooster sheave  
Wireline options available  
2nd overhaul ball available  
3rd wrap limiter main and auxiliary winch



Auxiliary lower sheave block for 2-8 part lines  
Load blocks 1-3, 1-6, 2-6 part lines

## Hydraulics



Hose reel – boom mounted  
Front Bumper Stabilizer (FBS)

## Cab



Air conditioner  
Engine monitoring system  
Video camera (1 or 2)  
Cab weather band radio system  
Wireless wind speed indicator

## Operator Aids



4-function radio remote crane control system either with paddles or joysticks  
• 900 Mhz  
• 433 Mhz  
  
Remote winch control system for main and auxiliary winches

## 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 Flatbed

### Tool Boxes

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

### Flatbeds

- 8 ft (2.4 m) flatbed – wood or steel
- 10 ft (3.0 m) flatbed – wood or steel

## Notes

## Notes

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

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Reaching new heights

