

# Series 900A

## product guide

### features

- 103' (31.4 m) Four-Section Boom
- 26 Ton (23.6 mt) Rating
- Self-lubricating "Easy Glide" Wear Pads
- Internal Anti-two-block



### contents

Features

2

Mounting Configurations

3

Specifications

4

Capacities

5

Accessories

11

Dimensions Specifications

12

# features

## Why Buy a National Series 900A?

2



\*Product may be shown with optional equipment.

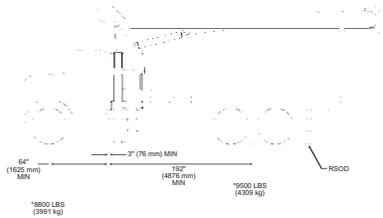
- **26-ton (23.6 mt) Rating** – The 900A provides a 26-ton (23.6 mt) capacity.
- **New 103 ft. (31.4 m) Four-section Boom** – The longest in its size range. The longer boom allows the operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency.
- **Self-lubricating “Easy Glide” Wear Pads** – The self-lubricating pads, standard on the 900A reduce the conditions that cause boom chatter and vibration. The net result is smoother crane operation.
- **Internal Anti-two-block** – The patent-pending design, standard on the 900A eliminates the external reel and wire. No more snagging reel or wire on obstructions.
- **Adjustable Swing Speed** – A control knob located on the swing motor brake release valve can be easily adjusted to the crane operator’s swing speed preference.
- **Speedy-reeve Boom Tip and Sheave Blocks** – These standard features simplify rigging changes.
- **Pre-painted Components** – Painting crane components before assembly reduces the possibility of rust, improves serviceability and enhances the appearance of the machine.
- **Burst-of-Speed Winch** – Provides faster winch payout and pickup of unloaded cable.
- **Electronic versions of manuals available through Manitowoc Crane CARE.**
- **Improved Serviceability** –
  - A removable winch allows the internal telescoping cylinder to be removed quickly, without dismantling the boom.
  - Bearings on the boom extend and retract cables can be greased through access holes in the boom side plates.
  - Internal anti-two-block wire routing eliminates damage potential.
  - The boom sheave case is open, allowing access to replace the internal anti-two-block wire and to observe internal boom components.
  - Pre-paint reduces rust.
  - Internal boom parts have been reduced, decreasing service time when rebuilding the machine.
- **National Crane Is the Market Leader** – National is number one in the production of commercial truck-mounted boom trucks, with more than 35,000 units sold. National has many programs and people directly and indirectly involved to provide our customers with reliable products.
  - National has the boom truck industry’s leading test program. Every structural part of the crane is fully life cycle tested at full capacity. In addition to cycle testing, each model is subjected to state-of-the-art strain gauge testing that measures metal deformation as small as one-millionth of an inch. The net result is that weak areas are caught in test, not on job sites where costly downtime occurs.
  - All outrigger, lift and telescoping cylinders are manufactured to National Crane Designs, so that the seals, packing glands, and end plates are traced for accurate shipment of replacement parts.
  - National has a formalized quality program and is ISO 9001 approved.
  - Parts are available for all National Crane machines for the life of the crane.
- **National Crane Is a Quality Product That Will Provide Years of Service**
  - Parts are available for all National Crane machines, even if they are over 20 years old.

- 26-ton (23.6-mt) maximum capacity
- 156 ft. (47.5 m) maximum vertical reach\*
- 112 ft. (34.1 m) maximum vertical hydraulic reach\*
- Hydraulic Capacity Alert system (HCA) or Load Moment Indicator System (LMI)
- Proportional boom extension
- High performance planetary winch
- Heavy-duty triple pump hydraulics
- \* Maximum vertical reach is ground-level to boom tip height at maximum extension and angle with outriggers/stabilizers fully extended.

900A

# mounting configurations

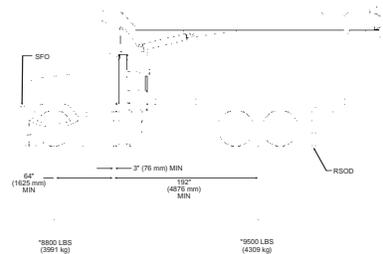
The configurations are based on the Series 900A with an 85% stability factor. The complete unit must be installed in accordance with factory requirements and a test performed to determine actual stability and counterweight requirements since individual truck chassis vary.



## Configuration 1 - 9103A

|   |   |
|---|---|
| Working area .....  | 180                                       |
| Gross Axle Weight Rating Front .....  | 16,000 lb (7257 kg)                       |
| Gross Axle Weight Rating Rear .....   | 34,000 lb (15 422 kg)                     |
| Gross Vehicle Weight Rating .....   | 50,000 lb (22 679 kg)                     |
| Wheelbase .....   | 256 in (650 cm)                           |
| Cab to Axle/trunnion (CA/CT) .....  | 192 in (488 cm)                           |
| Frame Section Modulus (SM) under crane: 110,000 PSI (758 MPa) .....           | 20 in <sup>3</sup> (327 cm <sup>3</sup> ) |
| Frame Section Modulus (SM) over rear stabilizers: 110,000 PSI (758 MPa) ..... | 15 in <sup>3</sup> (245 cm <sup>3</sup> ) |
| Stability Weight, Front .....   | 8,800 lb (3991 kg) minimum*               |
| Stability Weight, Rear .....  | 9,500 lb (4309 kg) minimum*               |
| Estimated Average Final Weight .....  | 42,600 lb (19 323 kg)                     |

This configuration allows the installation of the Series 9103A on a chassis by using the subbase for a 22-ft (6.71-m) bed.

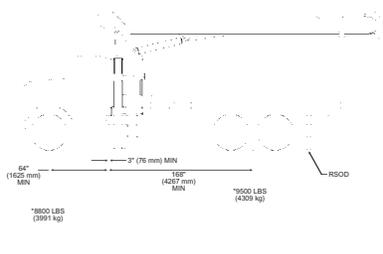


## Configuration 2 - 9103A with SFO (Extended front frame rails required for SFO installation.)

|   |   |
|---|---|
| Working area .....  | 360                                       |
| Gross Axle Weight Rating Front .....  | 16,000 lb (7257 kg)                       |
| Gross Axle Weight Rating Rear .....   | 34,000 lb (15 422 kg)                     |
| Gross Vehicle Weight Rating .....   | 50,000 lb (22 679 kg)                     |
| Wheelbase .....   | 256 in (650 cm)                           |
| Cab to Axle/trunnion (CA/CT) .....  | 192 in (488 cm)                           |
| Frame Section Modulus (SM) under crane: 110,000 PSI (758 MPa) .....           | 20 in <sup>3</sup> (327 cm <sup>3</sup> ) |
| Frame Section Modulus (SM) over rear stabilizers: 110,000 PSI (758 MPa) ..... | 15 in <sup>3</sup> (245 cm <sup>3</sup> ) |
| Stability Weight, Front .....   | 8,800 lb (3991 kg) minimum*               |
| Stability Weight, Rear .....  | 9,500 lb (4309 kg) minimum*               |
| Estimated Average Final Weight .....  | 42,900 lb (19 459 kg)                     |

This mount requires front stabilizer for full capacity 360 around the truck. Front stabilizer gives the machine a solid base, helping the operator control loads.

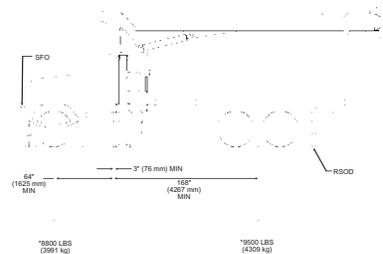
This configuration requires a 22-ft (6.71-m) bed.



## Configuration 3 - 990A / 969A

|   |   |
|---|---|
| Working area .....  | 180                                       |
| Gross Axle Weight Rating Front .....  | 16,000 lb (7257 kg)                       |
| Gross Axle Weight Rating Rear .....   | 34,000 lb (15 422 kg)                     |
| Gross Vehicle Weight Rating .....   | 50,000 lb (22 679 kg)                     |
| Wheelbase .....   | 232 in (589 cm)                           |
| Cab to Axle/trunnion (CA/CT) .....  | 168 in (427 cm)                           |
| Frame Section Modulus (SM) under crane: 110,000 PSI (758 MPa) .....           | 20 in <sup>3</sup> (327 cm <sup>3</sup> ) |
| Frame Section Modulus (SM) over rear stabilizers: 110,000 PSI (758 MPa) ..... | 15 in <sup>3</sup> (245 cm <sup>3</sup> ) |
| Stability Weight, Front .....   | 8,800 lb (3991 kg) minimum*               |
| Stability Weight, Rear .....  | 9,500 lb (4309 kg) minimum*               |
| Estimated Average Final Weight .....  | 40,600 lb (18 415 kg)                     |

This configuration allows the installation of the Series 990A or 969A on a chassis with a small frame by using a subbase for a 20-ft (6.10-m) bed or a different subbase for a 22-ft (6.71-m) bed.

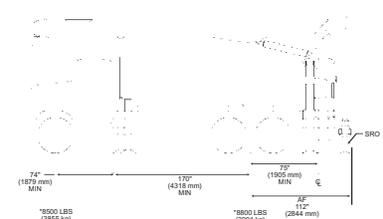


## Configuration 4 - 990A / 969A with SFO (Extended front frame rails required for SFO installation.)

|   |   |
|---|---|
| Working area .....  | 360                                       |
| Gross Axle Weight Rating Front .....  | 16,000 lb (7257 kg)                       |
| Gross Axle Weight Rating Rear .....   | 34,000 lb (15 422 kg)                     |
| Gross Vehicle Weight Rating .....   | 50,000 lb (22 679 kg)                     |
| Wheelbase .....   | 232 in (589 cm)                           |
| Cab to Axle/trunnion (CA/CT) .....  | 168 in (427 cm)                           |
| Frame Section Modulus (SM) under crane: 110,000 PSI (758 MPa) .....           | 20 in <sup>3</sup> (327 cm <sup>3</sup> ) |
| Frame Section Modulus (SM) over rear stabilizers: 110,000 PSI (758 MPa) ..... | 15 in <sup>3</sup> (245 cm <sup>3</sup> ) |
| Stability Weight, Front .....   | 8,800 lb (3991 kg) minimum*               |
| Stability Weight, Rear .....  | 9,500 lb (4309 kg) minimum*               |
| Estimated Average Final Weight .....  | 40,900 lb (18 551 kg)                     |

This configuration allows the installation of the 990A or 969A on a chassis by using a subbase for a 20-ft (6.10-m) bed or a different subbase for a 22-ft (6.71-m) bed. This mount requires front stabilizer for full capacity 360 around the truck.

Front stabilizer gives the machine a solid base, helping the operator control loads.



## Configuration 5 - Rear Mount

|   |   |
|---|---|
| Working area .....  | 360   |
| Gross Axle Weight Rating Front .....                                | 16,000 lb (7257 kg)                         |
| Gross Axle Weight Rating Rear .....                                 | 40,000 lb (18 143 kg)                       |
| Gross Vehicle Weight Rating .....                                   | 56,000 lb (25 401 kg)                       |
| Wheelbase .....   | 244 in (620 cm)                             |
| Cab to Axle/trunnion (CA/CT) .....                                  | MINIMUM 170 in (432 cm)                     |
| Frame Section Modulus (SM) under crane: 110,000 PSI (758 MPa) ..... | 15.9 in <sup>3</sup> (260 cm <sup>3</sup> ) |
| Stability Weight, Front .....                                       | 8,500 lb (3855 kg) minimum*                 |
| Stability Weight, Rear .....  | 7,000 lb (3991 kg) minimum*                 |
| Estimated Average Final Weight .....                                | 43,000 lb (19 504 kg)                       |

This configuration allows the rear-mount installation of the Series 900A. This configuration is 360° stable and allows the effective use of close working area to lift the heavier capacity loads. Maximum bed length is 16 ft (4.87 m).

### Notes:

- Gross Vehicle Weight Rating (GVWR) is dependent on all components of the vehicle (axles, tires, springs, frame, etc.) meeting manufacturers' recommendations; always specify GVWR when purchasing trucks
- Diesel engines require a variable speed governor and energize-to-run fuel solenoid for smooth crane operation; electronic fuel injection requires EET engine remote throttle
- All mounting data is based on a National Series 900A with an 85 percent

### stability factor

- The complete unit must be installed in accordance with factory requirements, and a test performed to determine actual stability and counterweight requirements per SAE J765; contact the factory for details
- Transmission neutral safety interlock switch is required with optional remote control

\*Estimated axle scale rates prior to installation of crane, stabilizers and subbase for 85% stability.

3

900A

# specifications

## Boom and Jib Combinations Data

Available in three basic models.

- 4 Model 969A** – Equipped with a 27 ft 6 in - 69 ft 2 in (8.38-21.08m) three-section boom. Maximum tip height 78 ft (24 m). This model can be equipped with a 25-44 ft (7.62-13.41m) two-section jib. Maximum tip height w/44 ft (13.41m) jib is 123 ft 9 in. (37.71m).

27'6" - 69'2" (8.38-21.08 m) three-section boom **9FJ44M** 25-44 ft (7.62-13.41 m) two-section jib



- Model 990A** – Equipped with a 27 ft 6 in - 90 ft 6 in (8.38-27.58 m) four-section boom. This model can be equipped with a 25-44 ft (7.62-13.41 m) two-section jib. Maximum tip height w/ 44 ft (13.41 m) jib is 143 ft (43.58 m).

27'6" - 90'6" (8.38-27.58 m) four-section boom **9FJ44M** 25-44 ft (7.62-13.41 m) two-section jib



- Model 9103A** – Equipped with a 30 ft 9 in - 102 ft 10 in (9.37-31.34 m) four-section boom. This model can be equipped with a 25-44 ft (7.62-13.41 m) two-section jib. Maximum tip height w/ 44 ft (13.41 m) jib is 155 ft (47.24 m).

30'9" - 102'10" (9.37-31.34 m) four-section boom **9FJ44M** 25-44 ft (7.62-13.41 m) two-section jib



**Note:** maximum tip height is measured with outriggers/stabilizers fully extended.

## 900A Winch Data

### 900A Winch Data

- All winch pulls and speeds in this chart are shown on the fourth layer
- Winch line pulls would increase on the first, second and third layers
- Winch line speed would decrease on the first, second and third layers
- Winch line pulls may be limited by the winch capacity or the ANSI 5 to 1 cable safety factor
- Hook blocks are rated at maximum capacity for the block. **Do not exceed rated cable pull with any block.**

| 900A Winch Data          |  |                        | 1 Part Line   | 2 Part Line   | 3 Part Line   | 4 Part Line   | 5 Part Line   | 6 Part Line   | 7 Part Line   |
|--------------------------|--|------------------------|---|---|---|---|---|---|---|
|                          |  |                        |  |  |  |  |  |  |  |
|                          |  |                        | MAX. PULL<br>7,700 lb   | MAX. PULL<br>15,400 lb  | MAX. PULL<br>23,100 lb  | MAX. PULL<br>30,800 lb  | MAX. PULL<br>38,500 lb  | MAX. PULL<br>46,200 lb  | MAX. PULL<br>52,000 lb  |
| Winch                    | Cable Supplied                               | Avg. Breaking Strength | Lift and Speed  | Lift and Speed  | Lift and Speed  | Lift and Speed  | Lift and Speed  | Lift and Speed  | Lift and Speed  |
| Standard Planetary Winch | 9/16" Diameter Rotation Resistant            | 38,500 lb (17 463 kg)  | 7,700 lb (3 492 kg)<br>135 fpm (41 m/m)   | 15,400 lb (6 985 kg)<br>68 fpm (20 m/m)   | 23,100 lb (10 477 kg)<br>45 fpm (13 m/m)  | 30,800 lb (13 970 kg)<br>34 fpm (10 m/m)  | 38,500 lb (17 463 kg)<br>27 fpm (8 m/m)   | 46,200 lb (20 955 kg)<br>23 fpm (7 m/m)   | 52,000 lb (23 586 kg)<br>19 fpm (5 m/m)   |
| With "Burst-of-Speed"    | Same as corresponding cable data shown above |                        | 3,000 lb (1 360 kg)<br>206 fpm (62 m/m)   | 6,000 lb (2 721 kg)<br>103 fpm (31 m/m)   | 9,000 lb (4 082 kg)<br>64 fpm (19.51 m/m)   | 12,000 lb (5 443 kg)<br>51 fpm (15 m/m)   | 15,000 lb (6 803 kg)<br>41 fpm (12 m/m)   | 18,000 lb (8 164 kg)<br>34 fpm (10 m/m)   | 21,000 lb (9 525 kg)<br>29 fpm (8 m/m)  |

Winch Bare Drum Pull Allowable Cable Pull  
With standard rotation resistant rope .....10,200 lb (4627 kg) .....7,700 lb (3493 kg)

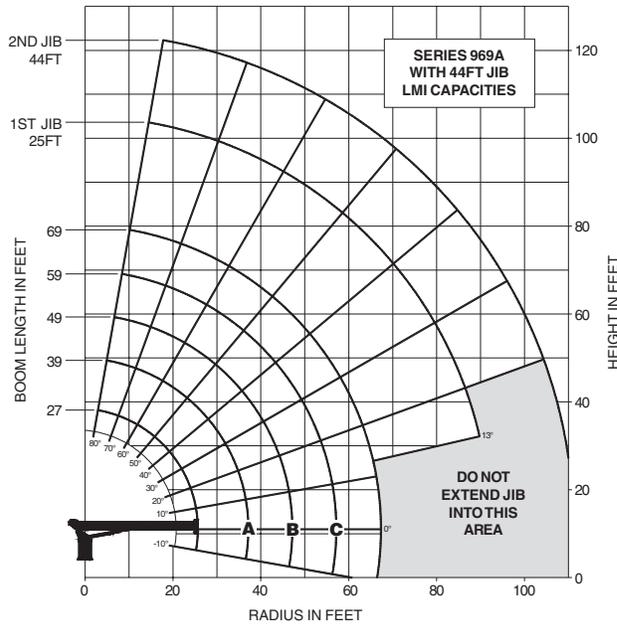
| Block Type           | Rating                   | Weight          |
|----------------------|--------------------------|-----------------|
| Downhaul Weight..... | 3.85 ton (3.49 t).....   | 150 lb (68 kg)  |
| 1 Sheave Block.....  | 11.55 ton (10.48 t)..... | 305 lb (138 kg) |
| 2 Sheave Block.....  | 19.25 ton (17.46 t)..... | 355 lb (161 kg) |

900A

# capacities

5

## Load Chart Rating: Series 969A (21.0 m) Boom with 44 ft. (13.4 m) Jib



**CAUTION:**

- Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) of live power lines or other conductors of electricity.
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

**SERIES 969A  
WITH  
44' JIB**

**NOTE:**

1. Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Shaded areas are structurally limited capacities.

**LOADLINE EQUIPMENT  
DEDUCT**

|                    |       |                |
|--------------------|-------|----------------|
| Downhaul weight    | _____ | 150lb. (68kg)  |
| One sheave block   | _____ | 305lb. (138kg) |
| Two sheave block   | _____ | 355lb. (161kg) |
| Three sheave block | _____ | 575lb. (260kg) |

## Load Chart Rating: Series 969A (21.0 m) Boom with 44 ft. (13.4 m) Jib

| LOAD RADIUS (FEET)                        | LOADED BOOM ANGLE | 27FT BOOM (lb) | LOADED BOOM ANGLE | A 39FT BOOM (lb) | LOADED BOOM ANGLE | B 49FT BOOM (lb) | LOADED BOOM ANGLE | C 59FT BOOM (lb) | LOADED BOOM ANGLE | 69FT BOOM (lb) | LOAD RADIUS (FEET) | LOADED BOOM ANGLE | 25FT JIB (lb) | LOADED BOOM ANGLE | 44FT JIB (lb) |
|---|-------------------|----------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|----------------|--------------------|-------------------|---------------|-------------------|---------------|
| 5   | 77                | 52,000         |                   |                  |                   |                  |                   |                  |                   |                | 25                 | 74.5              | 7,700         | 77.5              | 4,500         |
| 8   | 70                | 36,500         |                   |                  |                   |                  |                   |                  |                   |                | 30                 | 71                | 6,800         | 74.5              | 4,100         |
| 10  | 65.5              | 31,000         |                   |                  |                   |                  |                   |                  |                   |                | 35                 | 68                | 5,900         | 72                | 3,800         |
| 12  | 60.5              | 26,500         | 70.5              | 24,700           | 75                | 23,900           | 78                | 22,800           |                   |                | 40                 | 64.5              | 5,100         | 69.5              | 3,500         |
| 14  | 55.5              | 21,600         | 67                | 21,200           | 72.5              | 20,200           | 76                | 19,100           | 78                | 17,600         | 45                 | 61                | 4,400         | 67                | 3,200         |
| 16  | 51                | 19,300         | 63.5              | 16,800           | 70                | 16,200           | 73.5              | 17,000           | 76.5              | 15,600         | 50                 | 57.5              | 3,850         | 64                | 3,000         |
| 20  | 37.5              | 15,000         | 57                | 15,200           | 64.5              | 15,200           | 69.5              | 14,800           | 73                | 13,500         | 55                 | 54                | 3,400         | 61                | 2,800         |
| 25  |                   |                | 47                | 11,600           | 58                | 11,700           | 64.5              | 11,800           | 68.5              | 11,400         | 60                 | 50                | 3,000         | 58                | 2,600         |
| 30  |                   |                | 35.5              | 9,250            | 50.5              | 9,350            | 58.5              | 9,450            | 64                | 9,550          | 65                 | 45.5              | 2,600         | 56                | 2,400         |
| 35  |                   |                | 19.5              | 7,100            | 42                | 7,600            | 52.5              | 7,700            | 59.5              | 7,800          | 70                 | 41                | 2,250         | 52                | 2,150         |
| 40  |                   |                |                   |                  | 32.5              | 6,300            | 46.5              | 6,400            | 54.5              | 6,500          | 75                 | 36                | 1,950         | 48.5              | 1,950         |
| 45  |                   |                |                   |                  | 18.5              | 5,050            | 39                | 5,150            | 49                | 5,250          | 80                 | 30                | 1,650         | 45                | 1,750         |
| 50  |                   |                |                   |                  |                   |                  | 30                | 4,200            | 43                | 4,300          | 85                 | 23                | 1,350         | 41                | 1,550         |
| 55  |                   |                |                   |                  |                   |                  | 16.5              | 3,400            | 36.5              | 3,700          | 90                 | 13                | 950           | 36.5              | 1,350         |
| 60  |                   |                |                   |                  |                   |                  |                   |                  | 28                | 3,050          | 95                 |                   |               | 32                | 1,150         |
| 65  |                   |                |                   |                  |                   |                  |                   |                  | 16                | 2,450          | 100                |                   |               | 26.5              | 950           |
|   | 0                 | 6,500          | 0                 | 3,700            | 0                 | 2,400            | 0                 | 1,650            | 0                 | 1,050          | 105                |                   |               | 20                | 750           |
| ADD TO CAPACITIES WHEN NO JIB STOWED (lb) |                   | 700            |                   | 500              |                   | 400              |                   | 300              |                   | 200            |                    |                   |               |                   |               |

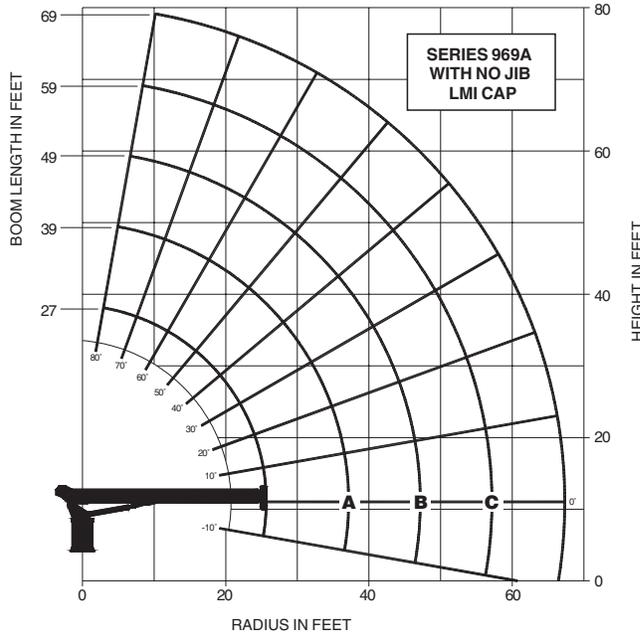
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

900A

# capacities

## Load Chart Rating: Series 969A (21.0m) Boom

6



**CAUTION:**

- Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) of live power lines or other conductors of electricity.
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

**SERIES 969A/  
NO JIB**

**NOTE:**

1. Capacities do not exceed 85% stability.
2. Shaded areas are structurally limited capacities.

| LOADLINE EQUIPMENT DEDUCT |                |
|---------------------------|----------------|
| Downhaul weight           | 150lb. (68kg)  |
| One sheave block          | 305lb. (138kg) |
| Two sheave block          | 355lb. (161kg) |
| Three sheave block        | 575lb. (260kg) |

## Load Chart Rating: Series 969A (21.0m) Boom

| LOAD RADIUS (FEET) | LOADED BOOM ANGLE | 27FT BOOM (lb) | LOADED BOOM ANGLE | A 39FT BOOM (lb) | LOADED BOOM ANGLE | B 49FT BOOM (lb) | LOADED BOOM ANGLE | C 59FT BOOM (lb) | LOADED BOOM ANGLE | 69FT BOOM (lb) |
|--------------------|-------------------|----------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|----------------|
| 5                  | 77                | 52,000         |                   |                  |                   |                  |                   |                  |                   |                |
| 8                  | 70                | 37,200         |                   |                  |                   |                  |                   |                  |                   |                |
| 10                 | 65.5              | 31,700         |                   |                  |                   |                  |                   |                  |                   |                |
| 12                 | 60.5              | 27,200         | 70.5              | 25,200           | 75                | 24,300           | 78                | 23,100           |                   |                |
| 14                 | 55.5              | 22,300         | 67                | 21,700           | 72.5              | 20,600           | 76                | 19,400           | 78                | 17,800         |
| 16                 | 51                | 20,000         | 63.5              | 17,300           | 70                | 16,600           | 73.5              | 17,300           | 76.5              | 15,800         |
| 20                 | 37.5              | 15,700         | 57                | 15,700           | 64.5              | 15,600           | 69.5              | 15,100           | 73                | 13,700         |
| 25                 |                   |                | 47                | 12,100           | 58                | 12,100           | 64.5              | 12,100           | 68.5              | 11,600         |
| 30                 |                   |                | 35.5              | 9,750            | 50.5              | 9,750            | 58.5              | 9,750            | 64                | 9,750          |
| 35                 |                   |                | 19.5              | 7,600            | 42                | 8,000            | 52.5              | 8,000            | 59.5              | 8,000          |
| 40                 |                   |                |                   |                  | 32.5              | 6,700            | 46.5              | 6,700            | 54.5              | 6,700          |
| 45                 |                   |                |                   |                  | 18                | 5,450            | 39                | 5,450            | 49                | 5,450          |
| 50                 |                   |                |                   |                  |                   |                  | 30                | 4,500            | 43                | 4,500          |
| 55                 |                   |                |                   |                  |                   |                  | 16.5              | 3,700            | 36.5              | 3,900          |
| 60                 |                   |                |                   |                  |                   |                  |                   |                  | 28                | 3,250          |
| 65                 |                   |                |                   |                  |                   |                  |                   |                  | 16                | 2,650          |
|                    | 0                 | 7,200          | 0                 | 4,200            | 0                 | 2,800            | 0                 | 1,950            | 0                 | 1,250          |

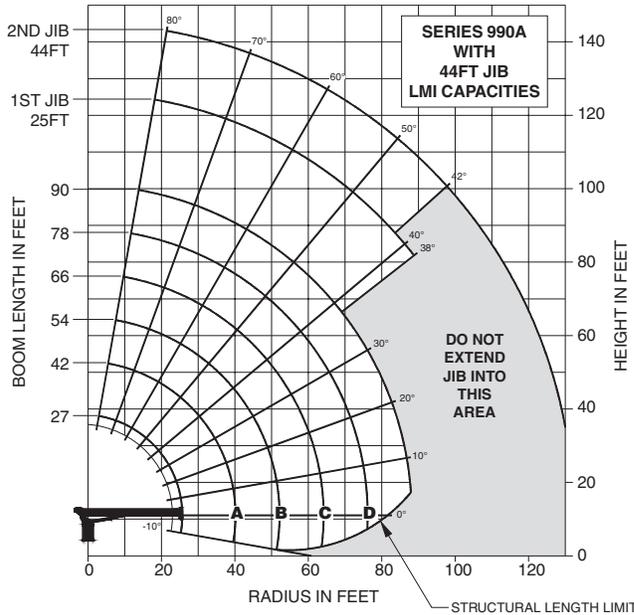
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

900A

# capacities

7

## Load Chart Rating: Series 990A (27.4 m) Boom with 44 ft. (13.4 m) Jib



### CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) of live power lines or other conductors of electricity.
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

### SERIES 990A WITH 44' JIB

### NOTE:

1. Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Shaded areas are structurally limited capacities.

### LOADLINE EQUIPMENT DEDUCT

|                    |       |                |
|--------------------|-------|----------------|
| Downhaul weight    | _____ | 150lb. (68kg)  |
| One sheave block   | _____ | 305lb. (138kg) |
| Two sheave block   | _____ | 355lb. (161kg) |
| Three sheave block | _____ | 575lb. (260kg) |

## Load Chart Rating: Series 990A (27.4 m) Boom with 44 ft. (13.4 m) Jib

| LOAD RADIUS (FEET)                        | LOADED BOOM ANGLE | 27FT BOOM (lb) | LOADED BOOM ANGLE | A 42FT BOOM (lb) | LOADED BOOM ANGLE | B 54FT BOOM (lb) | LOADED BOOM ANGLE | C 66FT BOOM (lb) | LOADED BOOM ANGLE | D 78FT BOOM (lb) | LOADED BOOM ANGLE | 90FT BOOM (lb) | LOAD RADIUS (FEET) | LOADED BOOM ANGLE | 25FT JIB (lb) | LOADED BOOM ANGLE | 44FT JIB (lb) |
|---|-------------------|----------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|----------------|--------------------|-------------------|---------------|-------------------|---------------|
| 5   | 77                | 52,000         |                   |                  |                   |                  |                   |                  |                   |                  |                   |                | 30                 | 75                | 4,850         | 77.5              | 3,300         |
| 8   | 70.5              | 35,900         |                   |                  |                   |                  |                   |                  |                   |                  |                   |                | 35                 | 72.5              | 4,350         | 75                | 3,250         |
| 10  | 66                | 30,600         | 75                | 26,900           | 79                | 25,300           |                   |                  |                   |                  |                   |                | 40                 | 70                | 3,900         | 73                | 3,200         |
| 12  | 60.5              | 25,900         | 72                | 23,000           | 77                | 21,600           |                   |                  |                   |                  |                   |                | 45                 | 67                | 3,500         | 71                | 3,050         |
| 14  | 55.5              | 21,600         | 69                | 20,100           | 74                | 20,100           | 78                | 18,100           |                   |                  |                   |                | 50                 | 64.5              | 3,150         | 69                | 2,750         |
| 16  | 50                | 19,300         | 66                | 17,800           | 72.5              | 16,700           | 76                | 15,700           | 78.5              | 14,700           |                   |                | 55                 | 61.5              | 2,800         | 66.5              | 2,400         |
| 20  | 38.5              | 14,800         | 59.5              | 14,600           | 67.5              | 14,500           | 72.5              | 13,600           | 75.5              | 12,500           | 78                | 11,500         | 60                 | 59                | 2,500         | 64                | 2,150         |
| 25  |                   |                | 51.5              | 11,300           | 61.5              | 11,000           | 68                | 11,000           | 71.5              | 10,300           | 74.5              | 9,300          | 65                 | 56                | 2,200         | 61.5              | 1,900         |
| 30  |                   |                | 41.5              | 9,050            | 55                | 8,900            | 62.5              | 9,000            | 67.5              | 8,600            | 71                | 7,800          | 70                 | 52.5              | 1,750         | 59                | 1,700         |
| 35  |                   |                | 30                | 7,050            | 48.5              | 7,350            | 58                | 7,200            | 64                | 7,150            | 68                | 6,700          | 75                 | 49                | 1,400         | 56.5              | 1,550         |
| 40  |                   |                |                   |                  | 41                | 6,100            | 52.5              | 6,000            | 59.5              | 5,850            | 64.5              | 5,850          | 80                 | 45.5              | 1,100         | 54                | 1,400         |
| 45  |                   |                |                   |                  | 31.5              | 4,900            | 46.5              | 5,100            | 55                | 4,900            | 61                | 4,900          | 85                 | 42                | 800           | 51.5              | 1,250         |
| 50  |                   |                |                   |                  | 17.5              | 3,850            | 40                | 4,350            | 50.5              | 4,250            | 57                | 4,250          | 90                 | 38                | 550           | 48                | 1,000         |
| 55  |                   |                |                   |                  |                   |                  |                   | 32.5             | 3,550             | 45               | 3,650             | 53             | 3,700              | 95                |               | 45                | 800           |
| 60  |                   |                |                   |                  |                   |                  |                   | 22               | 2,650             | 39.5             | 3,100             | 48.5           | 3,250              | 100               |               | 42                | 600           |
| 65  |                   |                |                   |                  |                   |                  |                   |                  |                   | 33               | 2,550             | 44             | 2,800              |                   |               |                   |               |
| 70  |                   |                |                   |                  |                   |                  |                   |                  |                   | 24.5             | 1,950             | 39             | 2,350              |                   |               |                   |               |
| 75  |                   |                |                   |                  |                   |                  |                   |                  |                   | 11               | 1,050             | 33.5           | 1,950              |                   |               |                   |               |
| 80  |                   |                |                   |                  |                   |                  |                   |                  |                   |                  |                   | 26.5           | 1,550              |                   |               |                   |               |
| 85  |                   |                |                   |                  |                   |                  |                   |                  |                   |                  |                   | 16.5           | 950                |                   |               |                   |               |
|   | 0                 | 6,400          | 0                 | 3,000            | 0                 | 1,600            | 0                 | 700              |                   |                  |                   |                |                    |                   |               |                   |               |
| ADD TO CAPACITIES WHEN NO JIB STOWED (lb) |                   | 700            |                   | 400              |                   | 300              |                   | 200              |                   | 200              |                   | 100            |                    |                   |               |                   |               |

### LOADLINE EQUIPMENT DEDUCT ( lb )

|                    |       |                |
|--------------------|-------|----------------|
| Downhaul weight    | _____ | 150lb. (68kg)  |
| One sheave block   | _____ | 305lb. (138kg) |
| Two sheave block   | _____ | 355lb. (161kg) |
| Three sheave block | _____ | 575lb. (260kg) |

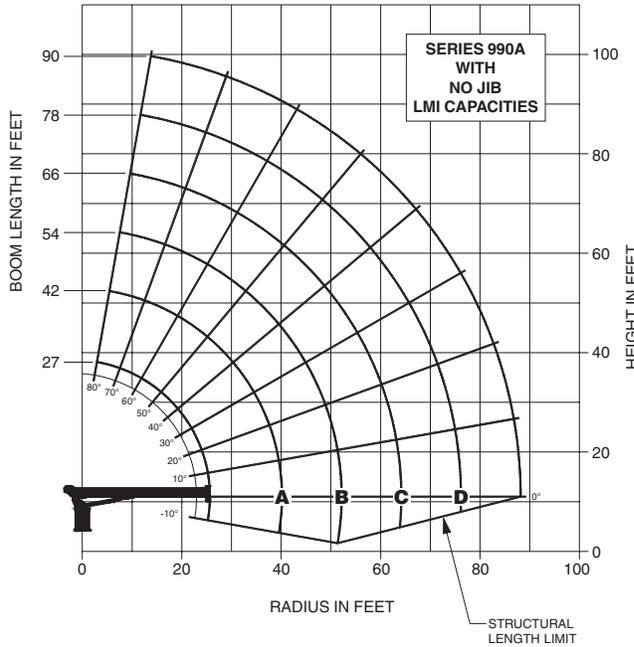
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

990A

# capacities

## Load Chart Rating: Series 990A (27.4 m) Boom

8



**CAUTION:**

- Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) of live power lines or other conductors of electricity.
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

**SERIES 990A/  
NO JIB**

| LOADLINE EQUIPMENT DEDUCT |                |
|---------------------------|----------------|
| Downhaul weight           | 150lb. (68kg)  |
| One sheave block          | 305lb. (138kg) |
| Two sheave block          | 355lb. (161kg) |
| Three sheave block        | 575lb. (260kg) |

## Load Chart Rating: Series 990A (27.4 m) Boom

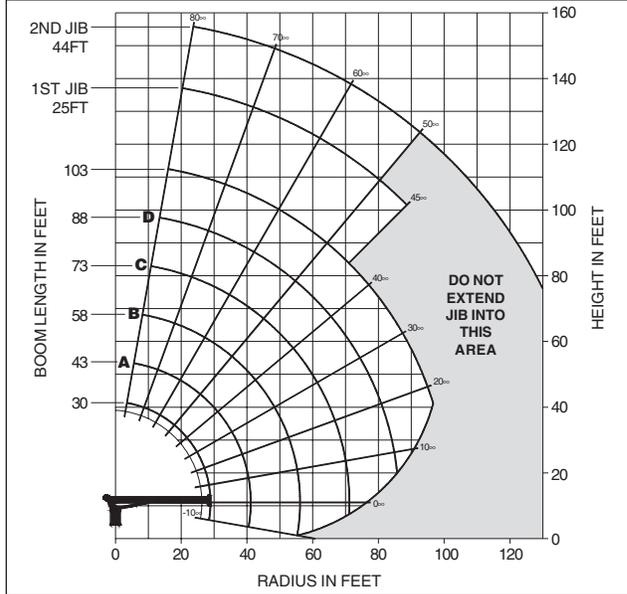
| LOAD RADIUS (FEET) | LOADED BOOM ANGLE | 27FT BOOM (lb) | LOADED BOOM ANGLE | A 42FT BOOM (lb) | LOADED BOOM ANGLE | B 54FT BOOM (lb) | LOADED BOOM ANGLE | C 66FT BOOM (lb) | LOADED BOOM ANGLE | D 78FT BOOM (lb) | LOADED BOOM ANGLE | 90FT BOOM (lb) |
|--------------------|-------------------|----------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|----------------|
| 5                  | 77                | 52,000         |                   |                  |                   |                  |                   |                  |                   |                  |                   |                |
| 8                  | 70.5              | 36,600         |                   |                  |                   |                  |                   |                  |                   |                  |                   |                |
| 10                 | 66                | 31,300         | 75                | 27,300           | 79                | 25,600           |                   |                  |                   |                  |                   |                |
| 12                 | 60.5              | 26,600         | 72                | 23,400           | 77                | 21,900           |                   |                  |                   |                  |                   |                |
| 14                 | 55.5              | 22,300         | 69                | 20,500           | 74                | 20,400           | 78                | 18,300           |                   |                  |                   |                |
| 16                 | 50                | 20,000         | 66                | 18,200           | 72.5              | 17,000           | 76                | 15,900           | 78.5              | 14,900           |                   |                |
| 20                 | 38.5              | 15,500         | 59.5              | 15,000           | 67.5              | 14,800           | 72.5              | 13,800           | 75.5              | 12,700           | 78                | 11,600         |
| 25                 |                   |                | 51.5              | 11,700           | 61.5              | 11,300           | 68                | 11,200           | 71.5              | 10,500           | 74.5              | 9,400          |
| 30                 |                   |                | 41.5              | 9,450            | 55                | 9,200            | 62.5              | 9,200            | 67.5              | 8,800            | 71                | 7,900          |
| 35                 |                   |                | 30                | 7,450            | 48.5              | 7,650            | 58                | 7,400            | 64                | 7,350            | 68                | 6,800          |
| 40                 |                   |                |                   |                  | 41                | 6,400            | 52.5              | 6,200            | 59.5              | 6,050            | 64.5              | 5,950          |
| 45                 |                   |                |                   |                  | 31.5              | 5,200            | 46.5              | 5,300            | 55                | 5,100            | 61                | 5,000          |
| 50                 |                   |                |                   |                  | 17.5              | 4,150            | 40                | 4,550            | 50.5              | 4,450            | 57                | 4,350          |
| 55                 |                   |                |                   |                  |                   |                  | 32.5              | 3,750            | 45                | 3,850            | 53                | 3,800          |
| 60                 |                   |                |                   |                  |                   |                  | 22                | 2,850            | 39.5              | 3,300            | 48.5              | 3,350          |
| 65                 |                   |                |                   |                  |                   |                  |                   |                  | 33                | 2,750            | 44                | 2,900          |
| 70                 |                   |                |                   |                  |                   |                  |                   |                  | 24.5              | 2,150            | 39                | 2,450          |
| 75                 |                   |                |                   |                  |                   |                  |                   |                  | 11                | 1,250            | 33.5              | 2,050          |
| 80                 |                   |                |                   |                  |                   |                  |                   |                  |                   |                  | 26.5              | 1,650          |
| 85                 |                   |                |                   |                  |                   |                  |                   |                  |                   |                  | 16.5              | 1,050          |
|                    | 0                 | 7,100          | 0                 | 3,400            | 0                 | 1,900            | 0                 | 900              |                   |                  |                   |                |

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

**900A**



## Load Chart Rating: Series 9103A (31.4 m) Boom with 44 ft. (13.4 m) Jib



**CAUTION:**

- Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) of live power lines or other conductors of electricity.
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

**SERIES 9103A  
WITH  
44' JIB**

**NOTE:**

1. Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths.
3. Capacities do not exceed 85% stability.
4. Shaded areas are structurally limited capacities.

| LOADLINE EQUIPMENT DEDUCT |                |
|---------------------------|----------------|
| Downhaul weight           | 150lb. (68kg)  |
| One sheave block          | 305lb. (138kg) |
| Two sheave block          | 355lb. (161kg) |
| Three sheave block        | 575lb. (260kg) |

## Load Chart Rating: Series 9103A (31.4 m) Boom with 44 ft. (13.4 m) Jib

| LOAD RADIUS (FEET)                        | LOADED BOOM ANGLE | 30FT BOOM (lb) | LOADED BOOM ANGLE | A 43FT BOOM (lb) | LOADED BOOM ANGLE | B 58FT BOOM (lb) | LOADED BOOM ANGLE | C 73FT BOOM (lb) | LOADED BOOM ANGLE | D 88FT BOOM (lb) | LOADED BOOM ANGLE | 103FT BOOM (lb) | LOAD RADIUS (FEET) | LOADED BOOM ANGLE | 25FT JIB (lb) | LOADED BOOM ANGLE | 44FT JIB (lb) |
|---|-------------------|----------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|-----------------|--------------------|-------------------|---------------|-------------------|---------------|
| 5   | 78.5              | 52,000         |                   |                  |                   |                  |                   |                  |                   |                  |                   |                 | 30                 | 76.5              | 3,950         |                   |               |
| 8   | 72.5              | 34,850         |                   |                  |                   |                  |                   |                  |                   |                  |                   |                 | 35                 | 74.5              | 3,450         | 76.5              | 2,550         |
| 10  | 68.5              | 29,050         | 75.5              | 26,400           | 80                | 24,950           |                   |                  |                   |                  |                   |                 | 40                 | 72                | 3,050         | 75                | 2,500         |
| 12  | 64.5              | 24,750         | 72.5              | 22,500           | 78                | 21,250           |                   |                  |                   |                  |                   |                 | 45                 | 70                | 2,600         | 73                | 2,450         |
| 14  | 60                | 21,250         | 69.5              | 19,600           | 76                | 19,350           | 79.5              | 17,750           |                   |                  |                   |                 | 50                 | 67.5              | 2,250         | 71                | 2,250         |
| 16  | 55.5              | 18,950         | 67                | 17,300           | 74                | 16,350           | 78                | 15,350           | 80                | 14,300           |                   |                 | 55                 | 65                | 1,950         | 69                | 1,850         |
| 20  | 45                | 14,350         | 60.5              | 14,000           | 69                | 13,750           | 74                | 12,650           | 77.5              | 11,700           | 80                | 10,550          | 60                 | 62.5              | 1,800         | 67                | 1,650         |
| 25  |                   |                | 52                | 10,800           | 63.5              | 10,550           | 70                | 10,150           | 74                | 9,400            | 77                | 9,100           | 65                 | 60                | 1,550         | 64.5              | 1,350         |
| 30  |                   |                | 42.5              | 8,500            | 57.5              | 8,500            | 65.5              | 8,350            | 70.5              | 7,750            | 74.5              | 7,150           | 70                 | 57.5              | 1,300         | 62.5              | 1,200         |
| 35  |                   |                | 32.5              | 6,500            | 52.5              | 6,900            | 62                | 6,800            | 67.5              | 6,400            | 71.5              | 6,050           | 75                 | 54.5              | 1,100         | 60                | 1,050         |
| 40  |                   |                |                   |                  | 45.5              | 5,650            | 57                | 5,600            | 64                | 5,450            | 68.5              | 5,150           | 80                 | 51.5              | 900           | 58                | 950           |
| 45  |                   |                |                   |                  | 38                | 4,500            | 52                | 4,700            | 60                | 4,600            | 65.5              | 4,500           | 85                 | 48.5              | 700           | 55.5              | 900           |
| 50  |                   |                |                   |                  | 28                | 3,450            | 46.5              | 3,950            | 56                | 3,950            | 62                | 3,900           | 90                 | 45.5              | 450           | 53                | 750           |
| 55  |                   |                |                   |                  |                   |                  | 40.5              | 3,150            | 52                | 3,300            | 59                | 3,350           | 95                 |                   |               | 50.5              | 600           |
| 60  |                   |                |                   |                  |                   |                  | 34                | 2,550            | 47.5              | 2,750            | 55.5              | 2,900           |                    |                   |               |                   |               |
| 65  |                   |                |                   |                  |                   |                  |                   |                  | 42.5              | 2,200            | 52                | 2,450           |                    |                   |               |                   |               |
| 70  |                   |                |                   |                  |                   |                  |                   |                  | 37.5              | 1,750            | 48                | 2,050           |                    |                   |               |                   |               |
| 75  |                   |                |                   |                  |                   |                  |                   |                  | 31                | 1,350            | 44                | 1,650           |                    |                   |               |                   |               |
| 80  |                   |                |                   |                  |                   |                  |                   |                  |                   |                  | 39.5              | 1,250           |                    |                   |               |                   |               |
| 85  |                   |                |                   |                  |                   |                  |                   |                  |                   |                  | 34.5              | 900             |                    |                   |               |                   |               |
|   | 0                 | 4,500          | 0                 | 2,200            | 0                 | 800              |                   |                  |                   |                  |                   |                 |                    |                   |               |                   |               |
| ADD TO CAPACITIES WHEN NO JIB STOWED (lb) |                   | 850            |                   | 600              |                   | 450              |                   | 350              |                   | 300              |                   | 250             |                    |                   |               |                   |               |

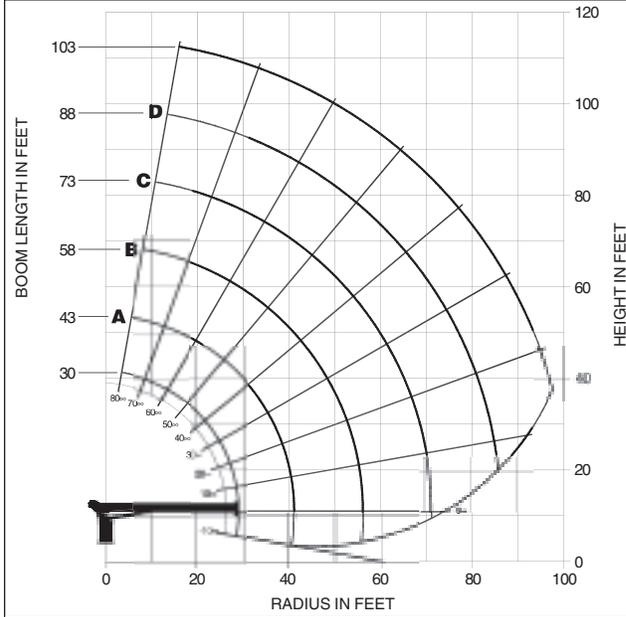
| LOADLINE EQUIPMENT DEDUCT ( lb ) |                 |
|----------------------------------|-----------------|
| Downhaul weight                  | 150 lb (68 Kg)  |
| One sheave block                 | 305 lb (138 Kg) |
| Two sheave block                 | 355 lb (161 Kg) |
| Three sheave block               | 575 lb (260 Kg) |

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# capacities

## Load Chart Rating: Series 9103A (31.4 m) Boom

10



### CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 10 ft (3m) of live power lines or other conductors of electricity.
- Jib and boom capacities shown are maximum for each section.
- Do not exceed capacities at reduced radii
- Load ratings shown on the load rating charts are maximum allowable loads with the outriggers properly extended on a firm, level surface and the crane leveled and mounted on a factory recommended truck.
- Always level the crane with the level indicator located on the crane.
- The operator must reduce load to allow for factors such as wind, ground conditions, operating speeds and their effects on freely suspended loads.
- Overloading this crane may cause structural collapse or instability.
- Weights on any accessories attached to the boom or loadline must be deducted from the load chart capacities.
- Do not exceed jib capabilities at any reduced boom lengths.
- Do not deadhead lineblock against boom tip when extending boom or winching up.
- Keep at least three wraps of loadline on drum at all times.
- Use only specified cable with this machine.

**SERIES 9103A/  
NO JIB**

### LOADLINE EQUIPMENT DEDUCT

|                    |       |                |
|--------------------|-------|----------------|
| Downhaul weight    | _____ | 150lb. (68kg)  |
| One sheave block   | _____ | 305lb. (138kg) |
| Two sheave block   | _____ | 355lb. (161kg) |
| Three sheave block | _____ | 575lb. (260kg) |

## Load Chart Rating: Series 9103A (31.4 m) Boom

| LOAD RADIUS (FEET) | LOADED BOOM ANGLE | 30FT BOOM (lb) | LOADED BOOM ANGLE | A 43FT BOOM (lb) | LOADED BOOM ANGLE | B 58FT BOOM (lb) | LOADED BOOM ANGLE | C 73FT BOOM (lb) | LOADED BOOM ANGLE | D 88FT BOOM (lb) | LOADED BOOM ANGLE | 103FT BOOM (lb) |
|--------------------|-------------------|----------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|-----------------|
| 5                  | 78.5              | 52,000         |                   |                  |                   |                  |                   |                  |                   |                  |                   |                 |
| 8                  | 72.5              | 35,700         |                   |                  |                   |                  |                   |                  |                   |                  |                   |                 |
| 10                 | 68.5              | 29,900         | 75.5              | 27,000           | 80                | 25,400           |                   |                  |                   |                  |                   |                 |
| 12                 | 64.5              | 25,600         | 72.5              | 23,100           | 78                | 21,700           |                   |                  |                   |                  |                   |                 |
| 14                 | 60                | 22,100         | 69.5              | 20,200           | 76                | 19,800           | 79.5              | 18,100           |                   |                  |                   |                 |
| 16                 | 55.5              | 19,800         | 67                | 17,900           | 74                | 16,800           | 78                | 15,700           | 80                | 14,600           |                   |                 |
| 20                 | 45                | 15,200         | 60.5              | 14,600           | 69                | 14,200           | 74                | 13,000           | 77.5              | 12,000           | 80                | 10,800          |
| 25                 |                   |                | 52                | 11,400           | 63.5              | 11,000           | 70                | 10,500           | 74                | 9,700            | 77                | 9,350           |
| 30                 |                   |                | 42.5              | 9,100            | 57.5              | 8,950            | 65.5              | 8,700            | 70.5              | 8,050            | 74.5              | 7,400           |
| 35                 |                   |                | 32.5              | 7,100            | 52.5              | 7,350            | 62                | 7,150            | 67.5              | 6,700            | 71.5              | 6,300           |
| 40                 |                   |                |                   |                  | 45.5              | 6,100            | 57                | 5,950            | 64                | 5,750            | 68.5              | 5,400           |
| 45                 |                   |                |                   |                  | 38                | 4,950            | 52                | 5,050            | 60                | 4,900            | 65.5              | 4,750           |
| 50                 |                   |                |                   |                  | 28                | 3,900            | 46.5              | 4,300            | 56                | 4,250            | 62                | 4,150           |
| 55                 |                   |                |                   |                  |                   |                  | 40.5              | 3,500            | 52                | 3,600            | 59                | 3,600           |
| 60                 |                   |                |                   |                  |                   |                  | 34                | 2,900            | 47.5              | 3,050            | 55.5              | 3,150           |
| 65                 |                   |                |                   |                  |                   |                  |                   |                  | 42.5              | 2,500            | 52                | 2,700           |
| 70                 |                   |                |                   |                  |                   |                  |                   |                  | 37.5              | 2,050            | 48                | 2,300           |
| 75                 |                   |                |                   |                  |                   |                  |                   |                  | 31                | 1,650            | 44                | 1,900           |
| 80                 |                   |                |                   |                  |                   |                  |                   |                  |                   |                  | 39.5              | 1,500           |
| 85                 |                   |                |                   |                  |                   |                  |                   |                  |                   |                  | 34.5              | 1,150           |
|                    | 0                 | 5,350          | 0                 | 2,800            | 0                 | 1,250            |                   |                  |                   |                  |                   |                 |

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

900A

## **Radio Remote Controls –**

Eliminate the handling and maintenance concerns that accompany cabled remotes. Operate to a range of about 250 feet (76 m), varying with conditions.

- NB4R (R4 functions)

## **One-Person Basket –**

Strong but lightweight steel basket with 300-lb. (139-kg) capacity, gravity hung with swing lock and full body harness.

- B1-S
- 2B1-S (for dual locking baskets)

## **Heavy-duty Personnel Basket –**

1,200-lb. (544-kg) capacity steel basket with safety loops for four passengers. Gravity leveling 72- x 42-inch (183- x 107-cm) platform. Fast attachment and secure locking systems. Load chart must show 2,300 (1043 kg) minimum to operate this accessory.

- BSA-1
- BSA-R1 (provides rotation)

## **Hydraulic Oil Cooler –**

Automatic, self-contained radiator system with electric fans, cools oil under continuous duty-cycle operations.

- OC

## **Continuous Rotation –**

Allows rotation of turret/boom without stop.

- CR

## **Single Front Outrigger –**

Center mount front stabilizer with 25" vertical stroke.

- SFO

## **Outrigger Motion Alarms –**

Available for "A" frame O/R only, not stabilizers.

Available for "A" frame outriggers (Std mount only) and RSOD stabilizers.

- OMA-1
- OMA-2

## **Hour Meter –**

Hour meter in truck cab to record crane operation hours.

- HRM

## **Steel Tool Box Options –**

## **Spanish-Language Danger Decals, Control Knobs, and Operators' Manuals –**

- SDD
- SOM









**Regional Headquarters**
**Americas**

Manitowoc, Wisconsin, USA

Tel: +1 920 684 6621

Fax: +1 920 683 6278

Shady Grove, Pennsylvania, USA

Tel: +1 717 597 8121

Fax: +1 717 597 4062

**Regional Offices**
**Americas**
**Brazil**

Alphaville

Tel: +55 11 4688 2716

Fax: +55 11 4191 1471

**Mexico**

Monterrey

Tel: +52 81 8124 0128

Fax: +52 81 8124 0129

**Europe, Middle East, Africa**
**Algeria**

Hydra

Tel: +21 3 21 48 1173

Fax: +21 3 21 48 1454

**Czech Republic**

Netvorice

Tel: +420 317 78 9313

Fax: +420 317 78 9314

**France**

Baudemont

Tel: +33 385 28 2589

Fax: +33 385 28 0430

Cergy

Tel: +33 130 31 3150

Fax: +33 130 38 6085

Decines

Tel: +33 472 81 5000

Fax: +33 472 81 5010

**Germany**

Langenfeld

Tel: +49 21 73 8909-0

Fax: +49 21 73 8909 30

**Hungary**

Budapest

Tel: +36 13 39 8622

Fax: +36 13 39 8622

**Italy**

Parabiago

Tel: +390 331 49 3311

Fax: +390 331 49 3330

**Europe, Middle East, Africa**

Ecully, France

Tel: +33 472 18 2020

Fax: +33 472 18 2000

**Netherlands**

Breda

Tel: +31 76 578 3999

Fax: +31 76 578 3978

**Poland**

Warsaw

Tel: +48 22 843 3824

Fax: +48 22 843 3471

**Portugal**

Alfena

Tel: +351 229 69 8840

Fax: +351 229 69 8848

Lisbon

Tel: +351 212 109 340

Fax: +351 212 109 349

**Russia**

Moscow

Tel: +7 495 641 2359

Fax: +7 495 641 2358

**U.A.E.**

Dubai

Tel: +971 4 3381 861

Fax: +971 4 3382 343

**U. K.**

Middlesex

Tel: +44 1 895 43 0053

Fax: +44 1 895 45 9500

Sunderland

Tel: +44 191 522 2000

Fax: +44 191 522 2052

**Asia – Pacific**
**Australia**

Melbourne

Tel: +61 3 9 336 1300

Fax: +61 3 9 336 1322

Sydney

Tel: +61 2 9 896 4433

Fax: +61 2 9 896 3122

**Asia – Pacific**

Shanghai, China

Tel: +86 21 51113579

Fax: +86 21 51113578

Singapore

Tel: +65 6264 1188

Fax: +65 6862 4142

**China**

Beijing

Tel: +86 10 58674761

Fax: +86 10 58674760

Xi'an

Tel: +86 29 87891465

Fax: +86 29 87884504

**Korea**

Seoul

Tel: +82 2 3439 0400

Fax: +82 2 3439 0405

**Philippines**

Makati City

Tel: +63 2 844 9437

Fax: +63 2 844 4712

**Factories**

U.S.A.

Manitowoc

Shady Grove

Brazil

Alphaville

France

Charlieu

La Clayette

Moulins

India

Calcutta

Puna

Italy

Niella Tanaro

Germany

Wilhelmshaven

Portugal

Fânzeres

China

Zhangjiagang