

Grove Maniowoc National Crane Potain



# National Crane 1300H Series

## Product Guide



### Features

- All new design
- 33,52 m (110 ft) four-section boom
- 27,2 t (30 USt) rating
- Multi-position Easy Reach control panel

# Features

## Overload protection

All National Crane boom trucks are equipped with overload protection. A Load Moment Indicator (LMI) is standard on all Series 1300H machines with Work Area Definition System (WADS). The LMI display console is weatherproof and the LCD display is visible in full or low light. All crane load lifting values are displayed simultaneously.



## Easy Reach control station

The Easy Reach control station can be tilted to the right or left side of the crane as needed and can be stowed in the center position for transport. The single axis pilot operated crane controls allow smooth operation for each crane function.

## Boom

The 110 ft four-section boom is 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. A 69 ft four-section boom or a 100 ft four-section boom are also available.



## Torsion box

The stronger standard torsion box improves rigidity, reduces truck frame flex and reduces the need for counterweight.

## Outriggers

Two sets of "HO"-style outriggers with 6 m (20 ft) full span, a 4,2 m (14 ft) mid span setting with manual locks and reduced capacity chart and fully retracted outrigger spread with reduced capacity chart. Main outriggers are equipped with removable ball and socket aluminum foot pads. Independent outrigger controls (umbilical design) are located at the easy reach control console and includes level indicator (sight bubble).

# Features

## Best in class performance and serviceability

- The Series 1300H comes standard with 410° non-continuous rotation
- Adjustable swing speed also comes standard on the Series 1300H. 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 simplify rigging changes by decreasing the time needed to change line reeving
- The burst of speed winch provides faster winch payout and pickup of unloaded cable
- Pre-painted components reduce the possibility of rust, improve serviceability and enhance the appearance of the machine
- Additional serviceability enhancements such as boom bearing grease access points, the reduction of internal boom parts and internal anti-two block wiring keep you working longer
- The state of the art control valve provides smoother operation and eliminates parts to improve serviceability and reduce repair costs



\* Product may be shown with optional equipment.

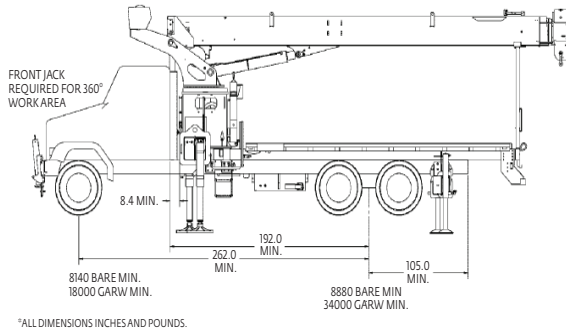
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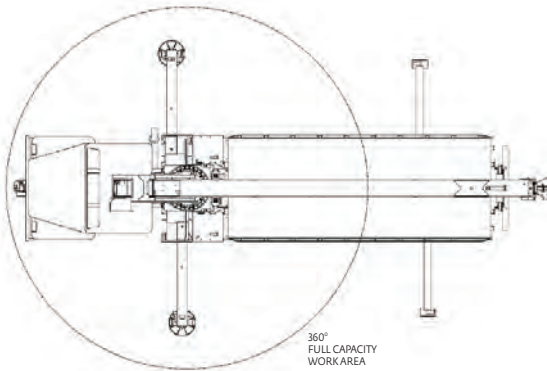
# Mounting configuration

The mounting configuration is based on an 85% stability factor. If the bare truck weight requirements are not met, counterweight will be required. The complete unit must be installed on the truck in accordance with factory requirements. Since individual truck chassis vary, a test must be performed on the unit to verify actual stability after mounting and installing counterweight (if required). A summary of mounting and truck requirements are:



## For 180° working area –

Gross Axle Weight Rating Front (GAWR) – 8165 kg (18,000 lb)  
 Gross Axle Weight Rating Rear (GAWR) – 15 455 kg (34,000 lb)  
 Gross Vehicle Weight Rating (GVW) – 23 587 kg (52,000 lb)  
 Wheelbase (WB) – 6,65 m (262 in)  
 Cab to Axle Trunnion (CT) – 4,88 m (192 in)  
 After Frame (AF) – 2,67 m (105 in)  
 Frame Section Modulus (SM) from outrigger to RSOD – 327 cm<sup>3</sup> (20 in<sup>3</sup>) and 759 MPa (110,000 psi) material  
 Bare Chassis Weight required for stability prior to installation  
 Front – 3692 kg (8140 lb)  
 Rear – 4028 kg (8880 lb)



## For 360° working area –

Optional Single Front Stabilizer (SFO)  
 Gross Axle Weight Rating Front (GAWR) – 8165 kg (18,000 lb)  
 Gross Axle Weight Rating Rear (GAWR) – 15 455 kg (34,000 lb)  
 Gross Vehicle Weight Rating (GVW) – 23 587 kg (52,000 lb)  
 Wheelbase (WB) – 6,65 m (262 in)  
 Cab to Axle Trunnion (CT) – 4,88 m (192 in)  
 After Frame (AF) – 2,67 m (105 in)  
 Frame Section Modulus (SM) from front spring hanger to end of after frame – 327 cm<sup>3</sup> (30 in<sup>3</sup>) and 759 MPa (110,000 psi) material  
 Bare Chassis Weight required for stability prior to installation  
 Front – 3720 kg (8200 lb)  
 Rear – 4037 kg (8900 lb)

**Note:** Chassis will require extended front frame rails for SFO addition.

For 360° stability the truck frame must have a 492 cm<sup>3</sup> (30 in<sup>3</sup>) section modulus [372 850 Nm (3,300,000 in-lb) RBM] minimum under the crane frame, 295 cm<sup>3</sup> (18 in<sup>3</sup>) section modulus [223 710 Nm (1,980,000 in-lb) RBM] at the front spring rear hanger, 197 cm<sup>3</sup> (12 in<sup>3</sup>) section modulus [149 140 Nm (1,320,000 in-lb) RBM] through the front spring and 49 cm<sup>3</sup> (3 in<sup>3</sup>) section modulus [37 284 Nm (330,000 in-lb) RBM] at the stabilizer attachment point on each truck frame rail.

## 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 is required
- All mounting data is based on a National Series 1300H with subbase and 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; contact the factory for details
- Transmission neutral safety interlock switch is required
- 13100H with front center stabilizer will be approximate 40 ft overall length. 13110H will exceed 40 ft overall length

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.

# Specifications

## Boom and jib combinations data

Available in three basic models:

**Model 1369H** – Equipped with a 6,7 m - 21,03 m (22 ft - 69 ft) four-section boom. Maximum tip height is 23,77 m (78 ft).

6,7 m - 21,03 m (22 ft - 69 ft) four-section boom.



**Model 13100H** – Equipped with a 8,83 m - 30,48 m (29 ft - 100 ft) four-section boom. This model can be equipped with a 7,62 m - 13,41 m (25 ft - 44 ft) two section jib. Maximum tip height with 13,41 m (44 ft) jib is 44,63 m (153 ft).

8,83 m - 30,48 m (29 ft -100 ft) four-section boom.

**13FJ44M** 7,62 m - 13,41 m (25 ft - 44 ft) two-section jib



**Model 13110H** – Equipped with a 10,05 m - 33,52 m (33 ft - 110 ft) four-section boom. This model can be equipped with a 7,62 m - 13,41 m (25 ft - 44 ft) two-section jib. Maximum tip height with 13,41 m (44 ft) jib is 49,68 m (163 ft).

10,05 m - 33,52 m (33 ft - 110 ft) four-section boom.

**13FJ44M** 7,62 m - 13,41 m (25 ft - 44 ft) two-section jib



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










# Specifications

## 1300H winch data

- Do not deadhead line block against boom tip when extending boom
- Keep at least three wraps of loadline on drum at all times
- Use only 9/16 in diameter rotation-resistant cable with 38,500 lb breaking strength on this machine

MAXIMUM BOOM LENGTH AT MAXIMUM ELEVATION WITH RIGGING SHOWN WITH LOAD BLOCK AT GROUND LEVEL

| 1 part line   | 2 part line   | 3 part line   | 4 part line  | 5 part line   | 6 part line   | 7 part line   |
|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |
| 69 ft boom  | 69 ft   | 69 ft   | 61 ft  | 51 ft   | 31 ft   | 21 ft   |
| 144 ft boom jib   | 100 ft  | 86 ft   | 58 ft  | 44 ft   | 44 ft   | 29 ft   |
| 154 ft boom jib   | 110 ft  | 78 ft   | 62 ft  | 46 ft   | 46 ft   | 32 ft   |

| Winch                    | Average cable supplied              | 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 in Diameter rotation resistant | 17 464 kg (38,500 lb) | 3493 kg (7700 lb)<br>50 m/min (164 fpm)  | 6986 kg (15,400 lb)<br>25 m/min (82 fpm) | 10 478 kg (23,100 lb)<br>16 m/min (55 fpm) | 13 971 kg (30,800 lb)<br>12 m/min (41 fpm) | 17 464 kg (38,500 lb)<br>10 m/min (33 fpm) | 20 956 kg (46,200 lb)<br>8 m/min (27 fpm) | 24 449 kg (53,900 lb)<br>7 m/min (23 fpm) |
| "Burst of speed"         | 9/16 in Diameter rotation resistant | 17 464 kg (38,500 lb) | 1361 kg (3000 lb)<br>111 m/min (265 fpm) | 2722 kg (6000 lb)<br>40 m/min (132 fpm)  | 4083 kg (9000 lb)<br>27 m/min (88 fpm)     | 5443 kg (12,000 lb)<br>20 m/min (66 fpm)   | 6804 kg (15,000 lb)<br>16 m/min (53 fpm)   | 8165 kg (18,000 lb)<br>13 m/min (44 fpm)  | 9526 kg (21,000 lb)<br>11 m/min (38 fpm)  |

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. These are shown below:

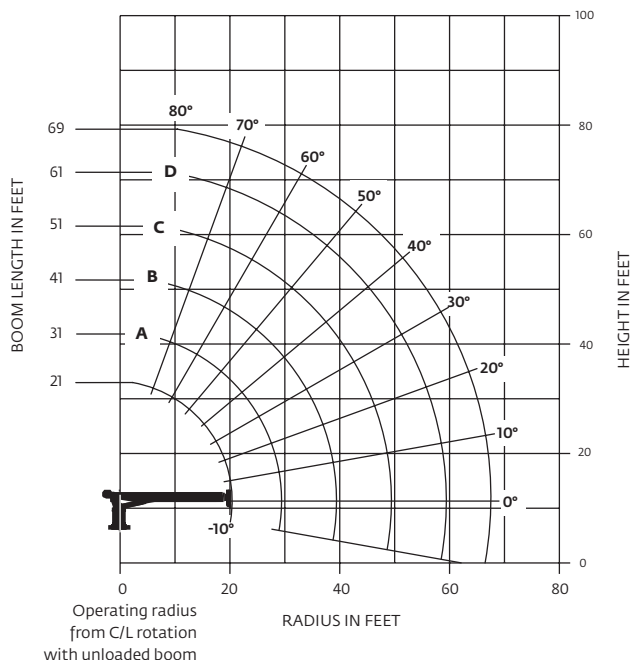
| Winch              | 4th layer drum pull   | Allowable cable pull |
|--------------------|---|----------------------|
| Standard planetary | 3493 kg (7700 lb) (low speed)<br>1361 kg (3000 lb) ("burst of speed") | 3492 kg (7700 lb)    |

| Block type      | Rating           | Weight          |
|-----------------|------------------|-----------------|
| Downhaul weight | 4,53 t (5 Ust)   | 68 kg (150 lb)  |
| 1 Sheave Block  | 10,89 t (12 Ust) | 139 kg (305 lb) |
| 2 Sheave Block  | 17,24 t (19 Ust) | 159 kg (350 lb) |
| 3 Sheave Block  | 27,22 t (30 Ust) | 261 kg (575 lb) |

# Capacities

## Series 1369H: 21,03 m (69 ft) boom/full span outrigger and stabilizer

Other Series 1300H Load Rating Charts are available. National Crane will send you a chart on request – or you may secure needed load rating information through your nearest National Crane dealer.



### CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 3 m (10 ft) 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 appropriate charts are maximum allowable loads with the crane mounted on a factory-approved truck and all outriggers at either full span or at mid span range and set on a firm level surface so that the crane is level and all tires are suspended
- 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 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

### Notes:

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

### Load chart

| LOADED RADIUS (ft) | LOADED BOOM ANGLE (deg) | 21 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | A 31 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | B 41 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | C 51 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | D 61 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | 69 ft BOOM (lb) |
|--------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|-----------------|
| 5                  | 71.6                    | * 60,000        |                         |                   |                         |                   |                         |                   |                         |                   |                         |                 |
| 8                  | 62.5                    | 47,500          | 71.7                    | 33,500            | 76.9                    | 33,400            |                         |                   |                         |                   |                         |                 |
| 10                 | 56                      | 40,300          | 67.7                    | 33,100            | 74                      | 32,300            | 78.1                    | 35,000            |                         |                   |                         |                 |
| 12                 | 49                      | 34,900          | 63.6                    | 32,700            | 71.2                    | 31,100            | 75.7                    | 30,100            | 78.9                    | 29,000            |                         |                 |
| 15                 | 36.5                    | 28,600          | 56.9                    | 27,300            | 66.5                    | 25,900            | 72                      | 24,900            | 75.8                    | 24,200            | 78.1                    | 19,350          |
| 20                 |                         |                 | 44.4                    | 21,200            | 58.3                    | 20,300            | 65.8                    | 19,500            | 70.8                    | 18,850            | 73.6                    | 18,450          |
| 25                 |                         |                 | 27.5                    | 16,550            | 49.2                    | 16,600            | 59.2                    | 16,000            | 65.5                    | 15,450            | 69                      | 15,050          |
| 30                 |                         |                 |                         |                   | 38.6                    | 13,800            | 52.1                    | 13,500            | 60                      | 13,050            | 64.3                    | 12,700          |
| 35                 |                         |                 |                         |                   | 24                      | 10,600            | 44.1                    | 10,750            | 54                      | 10,850            | 59.4                    | 10,950          |
| 40                 |                         |                 |                         |                   |                         |                   | 34.6                    | 8650              | 47.6                    | 8750              | 54.2                    | 8950            |
| 45                 |                         |                 |                         |                   |                         |                   | 23                      | 7200              | 41                      | 7300              | 48.6                    | 7350            |
| 50                 |                         |                 |                         |                   |                         |                   |                         |                   | 32.5                    | 6050              | 43                      | 6100            |
| 55                 |                         |                 |                         |                   |                         |                   |                         |                   | 21.2                    | 5100              | 36                      | 5150            |
| 60                 |                         |                 |                         |                   |                         |                   |                         |                   |                         |                   | 27.3                    | 4350            |
| 65                 |                         |                 |                         |                   |                         |                   |                         |                   |                         |                   | 13.7                    | 3700            |
|                    | 0                       | 15,000          | 0                       | 10,000            | 0                       | 7000              | 0                       | 5000              | 0                       | 3800              | 0                       | 3625            |

### Notes:

1. All capacities are in pounds, angles in degrees, and radii in feet
2. Loaded boom angles are given as reference only
3. Shaded areas are structurally limited capacities
4. Handling of personnel is only permitted with full span extension of all outrigger and stabilizer beams.
- \*5. See owners manuals. The 60,000 lb load requires optional 9/15 in diameter 6x25 IWRC cable

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.

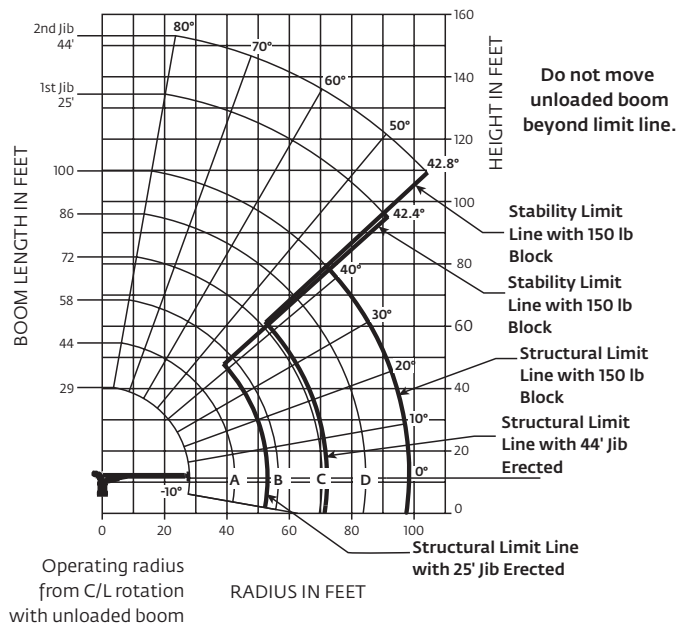




# Capacities

## Series 13100H: 8,99 m - 30,48 m (25 ft - 44 ft) jib/full span outrigger and stabilizer

Other Series 1300H Load Rating Charts are available. National Crane will send you a chart on request – or you may secure needed load rating information through your nearest National Crane dealer.



### CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 3 m (10 ft) 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 and the outrigger lock pins engaged 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 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

### Notes:

- Operate with jib by radius when main boom is fully extended. If necessary increase boom angle to maintain loaded radius
- Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib capacities at any reduced boom lengths

## Load chart

### 29 ft – 100 ft BOOM RATED LOADS WITHOUT JIB

| LOADED RADIUS (ft) | LOADED BOOM ANGLE (deg) | 29 ft BOOM (lb) | 44 ft BOOM (lb) | 58 ft BOOM (lb) | 72 ft BOOM (lb) | 86 ft BOOM (lb) | 100 ft BOOM (lb) |
|--------------------|-------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| 5                  | 77.3                    | *60,000         |                 |                 |                 |                 |                  |
| 8                  | 70.8                    | 44,000          | 29,100          |                 |                 |                 |                  |
| 10                 | 66.4                    | 36,900          | 29,000          |                 |                 |                 |                  |
| 12                 | 61.8                    | 33,450          | 28,600          | 28,600          |                 |                 |                  |
| 15                 | 54.5                    | 28,300          | 24,600          | 23,500          | 79              | 22,900          |                  |
| 20                 | 40.6                    | 21,950          | 21,000          | 19,000          | 74.6            | 17,450          | 78.3             |
| 25                 | 19.9                    | 15,700          | 17,500          | 16,500          | 70.3            | 15,700          | 74.8             |
| 30                 |                         |                 | 12,800          | 13,200          | 65.8            | 13,500          | 71               |
| 35                 |                         |                 | 10,150          | 10,100          | 61.1            | 10,400          | 67.3             |
| 40                 |                         |                 | 16.3            | 8000            | 56.6            | 8250            | 63.8             |
| 45                 |                         |                 |                 | 37              | 6500            | 51.3            | 6700             |
| 50                 |                         |                 |                 | 26.9            | 5250            | 45.5            | 5500             |
| 55                 |                         |                 |                 |                 | 39.1            | 4500            | 50.8             |
| 60                 |                         |                 |                 |                 | 31.7            | 3700            | 45.9             |
| 65                 |                         |                 |                 |                 |                 | 22.1            | 3050             |
| 70                 |                         |                 |                 |                 |                 |                 | 34.7             |
| 75                 |                         |                 |                 |                 |                 |                 | 27.7             |
| 80                 |                         |                 |                 |                 |                 |                 | 18.2             |
| 85                 |                         |                 |                 |                 |                 |                 |                  |
| 90                 |                         |                 |                 |                 |                 |                 |                  |
| 95                 |                         |                 |                 |                 |                 |                 |                  |
| 0                  |                         | 10,000          | 0               | 7600            | 0               | 4350            | 0                |
|                    |                         |                 |                 |                 |                 | 2600            | 0                |
|                    |                         |                 |                 |                 |                 |                 | 1550             |
|                    |                         |                 |                 |                 |                 |                 | 0                |
|                    |                         |                 |                 |                 |                 |                 | 800              |

### 25 ft – 44 ft JIB RATED LOADS

| LOADED RADIUS (ft) | LOADED BOOM ANGLE (deg) | 25 ft JIB (lb) | 44 ft JIB (lb) |
|--------------------|-------------------------|----------------|----------------|
| 35                 | 77.9                    | 4900           |                |
| 40                 | 76.5                    | 4500           |                |
| 45                 | 73.7                    | 4050           | 75.9           |
| 50                 | 71.2                    | 3700           | 74.3           |
| 55                 | 68.7                    | 3400           | 72.4           |
| 60                 | 66.2                    | 3150           | 70.2           |
| 65                 | 63.7                    | 3000           | 68.1           |
| 70                 | 60.7                    | 2700           | 66             |
| 75                 | 57.5                    | 2250           | 63.8           |
| 80                 | 53.9                    | 1800           | 61.3           |
| 85                 | 50.2                    | 1350           | 59             |
| 90                 | 46.2                    | 1000           | 56             |
| 95                 | 42.4                    | 700            | 52.8           |
| 100                |                         |                | 49.5           |
| 105                |                         |                | 46             |
| 110                |                         |                | 42.8           |

### RATED LOAD REDUCTIONS WITH STOWED JIB

| BOOM LENGTH (ft) | 25 ft – 44 ft JIB STOWED |
|------------------|--------------------------|
| 29               | Reduce load 800 lb       |
| 44               | Reduce load 600 lb       |
| 58               | Reduce load 450 lb       |
| 72               | Reduce load 350 lb       |
| 86               | Reduce load 300 lb       |
| 100              | Reduce load 250 lb       |

### Notes:

- All capacities are in pounds, angles in degrees, and radii in feet
- Loaded boom angles are given as reference only
- Shaded areas are structurally limited capacities
- Handling of personnel is only permitted with full span extension of all outrigger and stabilizer beams.
- See owners manuals. The 60,000 lb load requires optional 9/15 in diameter 6x25 IWRC cable

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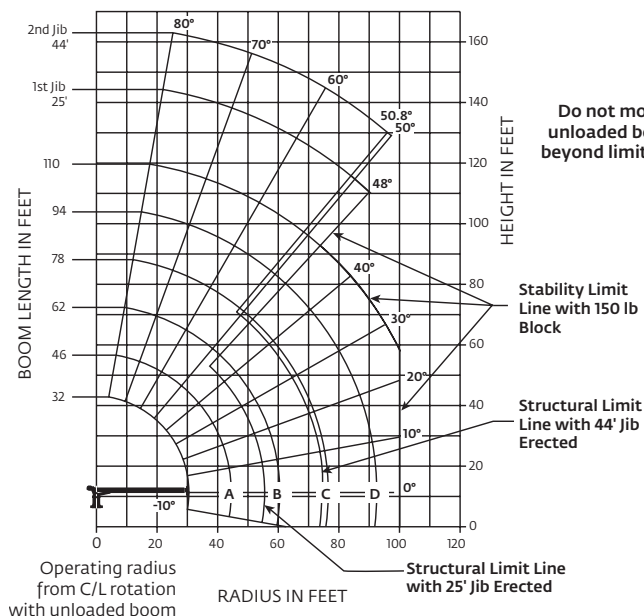
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



# Capacities

## Series 13110H: 9,75 m - 33,53m (25 ft - 44 ft) jib/full span outrigger and stabilizer

Other Series 1300H Load Rating Charts are available. National Crane will send you a chart on request - or you may secure needed load rating information through your nearest National Crane dealer.



### CAUTION:

- Do not operate crane booms, jib extensions, any accessories or loads within 3 m (10 ft) 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 appropriate charts are maximum allowable loads with the crane mounted on a factory-approved truck and all outriggers at either full span or at mid span range and set on a firm level surface so that the crane is level and all tires are suspended
- 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 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

### Notes:

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

## Load chart

### 32 ft – 110 ft BOOM RATED LOADS WITHOUT JIB

| LOADED RADIUS (ft) | LOADED BOOM ANGLE (deg) | 32 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | A 46 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | B 62 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | C 78 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | D 94 ft BOOM (lb) | LOADED BOOM ANGLE (deg) | 110 ft BOOM (lb) |
|--------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|------------------|
| 6                  | 76.7                    | *60,000         |                         |                   |                         |                   |                         |                   |                         |                   |                         |                  |
| 8                  | 72.5                    | 43,000          | 78.6                    | 29,100            |                         |                   |                         |                   |                         |                   |                         |                  |
| 10                 | 68.5                    | 35,900          | 76.1                    | 29,000            |                         |                   |                         |                   |                         |                   |                         |                  |
| 12                 | 64.4                    | 32,000          | 73.6                    | 28,000            | 78                      | 28,000            |                         |                   |                         |                   |                         |                  |
| 15                 | 57.9                    | 27,000          | 69.5                    | 24,000            | 76.1                    | 23,000            | 80                      | 19,500            |                         |                   |                         |                  |
| 20                 | 45.9                    | 19,500          | 62.5                    | 18,300            | 71.1                    | 17,500            | 76.4                    | 17,500            | 80                      | 16,300            |                         |                  |
| 25                 | 30.6                    | 14,900          | 55                      | 14,500            | 65.9                    | 14,050            | 72.4                    | 14,000            | 76.8                    | 13,700            | 79.3                    | 10,450           |
| 30                 |                         |                 | 46.3                    | 12,000            | 60.8                    | 11,600            | 68.2                    | 11,500            | 73.4                    | 11,350            | 76.5                    | 9150             |
| 35                 |                         |                 | 36.2                    | 9450              | 54.8                    | 9800              | 64                      | 9700              | 70.1                    | 10,600            | 74.1                    | 8950             |
| 40                 |                         |                 | 23.9                    | 7250              | 48.5                    | 8100              | 59.6                    | 8300              | 66.7                    | 8450              | 71.2                    | 7700             |
| 45                 |                         |                 |                         |                   | 42                      | 6550              | 55.4                    | 7000              | 63.3                    | 6900              | 68.7                    | 6950             |
| 50                 |                         |                 |                         |                   | 34                      | 5300              | 50.4                    | 5550              | 59.4                    | 5650              | 65.6                    | 5900             |
| 55                 |                         |                 |                         |                   | 23.8                    | 4300              | 45                      | 4550              | 55.4                    | 4700              | 62.3                    | 4900             |
| 60                 |                         |                 |                         |                   |                         |                   | 39                      | 3700              | 51.3                    | 3800              | 58.9                    | 4000             |
| 65                 |                         |                 |                         |                   |                         |                   | 32.1                    | 3000              | 46.8                    | 3100              | 55.4                    | 3300             |
| 70                 |                         |                 |                         |                   |                         |                   | 23.5                    | 2350              | 42.1                    | 2550              | 51.8                    | 2700             |
| 75                 |                         |                 |                         |                   |                         |                   |                         |                   | 36.9                    | 2050              | 48.1                    | 2200             |
| 80                 |                         |                 |                         |                   |                         |                   |                         |                   | 30.9                    | 1650              | 44.2                    | 1750             |
| 85                 |                         |                 |                         |                   |                         |                   |                         |                   | 23.4                    | 1250              | 39.9                    | 1400             |
| 90                 |                         |                 |                         |                   |                         |                   |                         |                   | 11.9                    | 900               | 35.2                    | 1050             |
| 95                 |                         |                 |                         |                   |                         |                   |                         |                   |                         |                   | 29.9                    | 750              |
| 100                |                         |                 |                         |                   |                         |                   |                         |                   |                         |                   | 23.4                    | 500              |
|                    | 0                       | 8000            | 0                       | 4800              | 0                       | 2600              | 0                       | 1200              | 0                       | 850               |                         |                  |

### 25 ft – 44 ft JIB RATED LOADS

| LOADED RADIUS (ft) | LOADED BOOM ANGLE (deg) | 25 ft JIB (lb) | LOADED BOOM ANGLE (deg) | 44 ft JIB (lb) |
|--------------------|-------------------------|----------------|-------------------------|----------------|
| 40                 | 77.4                    | 4400           |                         |                |
| 45                 | 75.8                    | 4400           | 76.7                    | 2700           |
| 50                 | 73.6                    | 4100           | 75.1                    | 2650           |
| 55                 | 69.5                    | 1900           | 73.2                    | 2500           |
| 60                 | 66.6                    | 1450           | 71.1                    | 2300           |
| 65                 | 63.8                    | 1000           | 69.2                    | 1250           |
| 70                 | 60.8                    | 600            | 64.5                    | 750            |
| 75                 |                         |                | 61.7                    | 500            |
| 80                 |                         |                |                         |                |

### RATED LOAD REDUCTIONS WITH STOWED JIB

| BOOM LENGTH (ft) | 25 ft – 44 ft JIB STOWED |
|------------------|--------------------------|
| 32               | Reduce load 800 lb       |
| 46               | Reduce load 600 lb       |
| 62               | Reduce load 450 lb       |
| 78               | Reduce load 350 lb       |
| 94               | Reduce load 300 lb       |
| 110              | Reduce load 250 lb       |

### Notes:

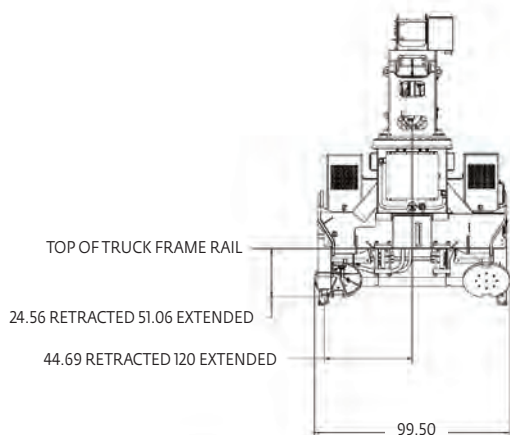
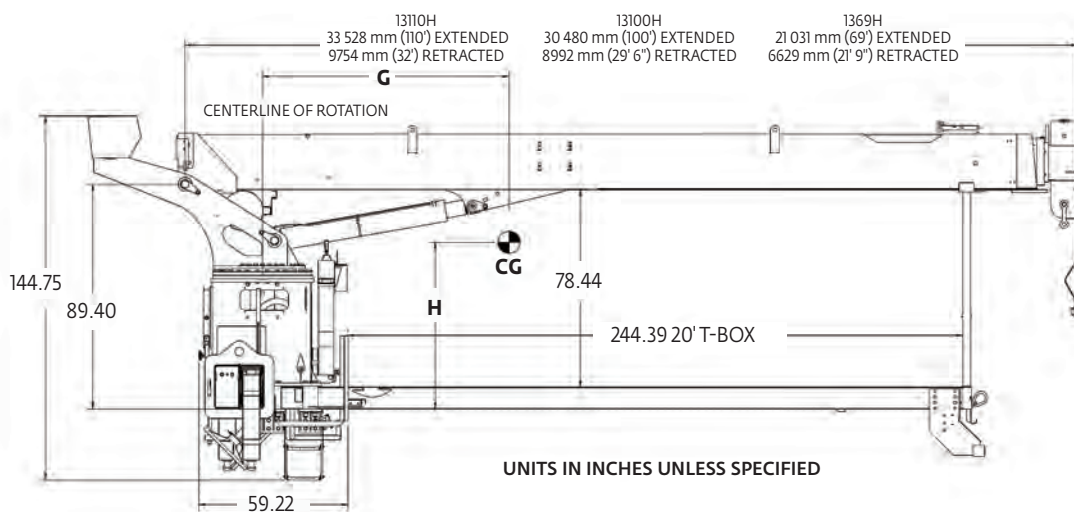
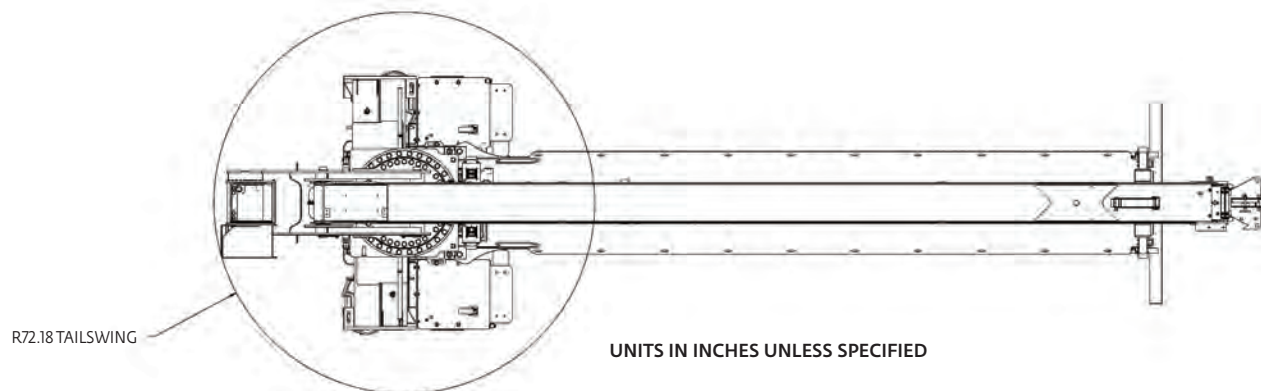
1. All capacities are in pounds, angles in degrees, and radii in feet
2. Loaded boom angles are given as reference only
3. Shaded areas are structurally limited capacities
4. Handling of personnel is only permitted with full span extension of all outrigger and stabilizer beams.
- \*5. See owners manuals. The 60,000 lb load requires optional 9/15 in diameter 6x25 IWRC cable

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.



# Dimensions



| G CENTER OF GRAVITY FROM CENTERLINE |                  |                  |                     |                       |
|-------------------------------------|------------------|------------------|---------------------|-----------------------|
| Series                              | G                | H                | Dry weight*         | With oil weight*      |
| 1369H                               | 155 cm (61.2 in) | 152 cm (59.8 in) | 8374 kg (18,462 lb) | 8707 kg (19,196 lb)   |
| 13100H                              | 226 cm (89.1 in) | 163 cm (64.1 in) | 9348 kg (20,608 lb) | 9681 kg (21,342 lb)   |
| 13110H                              | 251 cm (98.7 in) | 166 cm (65.4 in) | 9682 kg (21,346 lb) | 10 015 kg (22,080 lb) |

\* Above weights do not include reservoir, RSOD, jib, PTO, pump, BED.

\*\* Weight includes boom, winch, rope, turret, lift cylinder, frame, controls, outriggers, platforms, torque box, boom rest, bumper, downhaul weight.

# Accessories

## Radio Remote Controls –

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

- NB4R

## One-Person Basket –

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

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

## Heavy-duty Personnel Basket –

544 kg (1200 lb) capacity steel basket with safety loops for two passengers. Gravity leveling 183 cm x 107 cm (72 in x 42 in) platform. Fast attachment and secure locking systems. Load chart must show 1043 kg (2300 lb) minimum to operate this accessory.

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

## Winch Drum Rotation Indicator

- WDRI

**Last Wrap Indicator Option** on winch with indicator on Easy Reach console.

- LLI

## Single Front Outrigger

Center front stabilizer with a 25 in vertical stroke

- SFO

## Steel Tool Box Options

**Bulkhead-steel for super-duty beds**

- BHSD

# Notes



# Notes





# Notes



Grove   Maniowoc   National Crane   Potain



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## Factories

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Zhangjiagang

**France**

Charlieu

La Clayette

Moulins

**Germany**

Wilhelmshaven

**India**

Pune

**Italy**

Niella Tanaro

**Portugal**

Baltar

Fânzeres

**Slovakia**

Saris

**USA**

Maniowoc

Port Washington

Shady Grove

This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.

