

Tel: (888) 337-BIGGE or (510) 638-8100 Web: www.bigge.com



# Series 1300A





### **features**

#### Why Buy a National Series 1300A



\*Product may be shown with optional equipment.

- 30-ton (27.21-t) maximum capacity
- 163-ft (49.68-m) w/optional jib maximum vertical reach\*
- 119-ft (36.27-m) maximum vertical hydraulic reach'
- 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.

former Series 1300 model. 110-foot Four-section Boom – The longest in its size range. The longer boom allows the

30-ton Rating - The new 1300A is a 30-ton machine and has increased capacities over the

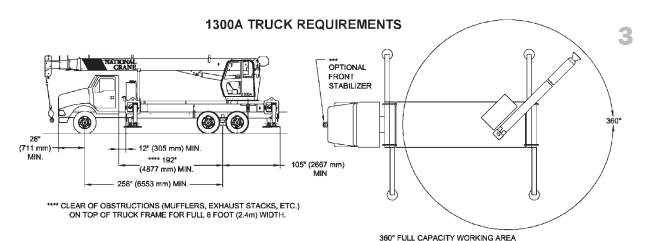
- operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency. A 69-foot four-section boom or a 100-foot four-section boom is also available.
- Overload Protection All National cranes are equipped with overload protection:
  - Load Moment Indicator (LMI) is standard on all series 1300A machines.
  - LMI display console is weatherproof.
  - LCD display is visible in full or low light.
  - All crane load lifting values are displayed simultaneously.
- Self-lubricating "Easy glide" Boom Wear Pads The self-lubricating boom pads, standard on the 1300A, reduce the conditions that cause boom chatter and vibration. The net result is smoother crane operation.
- "HO"-style Outriggers Two sets of "HO"-style outriggers with 20' (6.09 m) span, with 14-ft. (4.27 m) mid span setting with manual locks and reduced capacity chart and fully retracted outrigger spread with reduced capacity chart. Outriggers are equipped with removable ball and socket aluminum foot pads. Independent outrigger controls (umbilical design) are located at rear of the crane and includes level indicator (sight bubble).
- Continuous Rotation/Glide Swing The series 1300A is supplied with 360° continuous rotation as standard, along with the "glide swing" feature - allowing free swing during rotation and a manually applied foot brake.
- Adjustable Swing Speed Standard on the 1300A. A control knob located on the swing motor brake release valve can be easily adjusted to the crane operator's swing speed
- Oil Cooler Radiator mounted on top of front outriggers with electric fan is standard.
- Heavier Duty Torsion Box The stronger standard torsion box improves rigidity, reduces truck frame flex and reduces the need for turret mounted counterweight.
- Speedy-reeve Boom Tip and Sheave Blocks These standard features simplify rigging changes by decreasing the time needed to change line reeving.
- Pre-painted Components Painting crane components before assembly reduces the possibility of rust, improves serviceability and enhances the appearance of the machine.
- **Deluxe Operator's Cab** NEW VISION CAB™ has a rigid powder coated steel structure, is well insulated, with ample safety glass for operator visibility and comfort. Multi-position seat with arm rest controls, ventilation fans, diesel heater, wipers. Optional air-conditioning is available. Optional open-seat control station in lieu of enclosed cab is available.
- Improved Serviceability -
  - Bearings on the boom extend and retract cables can be greased through access holes in the boom side plates.
  - Number of internal boom parts has been reduced, decreasing service time when rebuilding the machine.
- New State-of-the-art Control Valve Provides smoother operation. The new design eliminates parts, reducing repair costs and improving the machine's serviceability.
- National Crane Is the Market Leader National is number one in the production of commercial truck-mounted boom trucks. National has many programs and people directly and indirectly involved to provide our customers reliable products.
- National has the boom truck industry's leading test program. Every structural part of the crane is cycle tested up to 60,000 cycles 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 one-millionth of an inch. The net result is that any weak areas are caught in test, not on job sites where costly downtime occurs.
- Lift and telescoping cylinders are manufactured by National Crane, so that the seals, packing glands, and end plates are traced for accurate shipment of replacement parts.
- Parts are available for all National Crane machines, even if they are 35 years old.
- National has a formalized quality program and is ISO 9001 approved.
- You Expect National Crane to be a Quality Product That Will Provide Years of Service, and So Do We.
- National Crane's Quality Management System is ISO 9001:2000 Approved.







### mounting configuration



The mounting configuration shown is based on an 85% stability factor. The complete unit must be installed on the truck in accordance with factory requirements, and a test performed to determine actual stability and counterweight requirements, since individual truck chassis vary. If bare truck weights are not met, counterweight will be required. A summary of mounting and truck requirements are:

Working area 3609

Gross Axle Weight Rating (GAWR), front 18,000 lb (8165 kg)

Gross Axle Weight Rating (GAWR), rear 34,000 lb (15 455 kg)

Gross Vehicle Weight Rating 52,000 lb (23 587 kg)

Wheelbase (WB) 258 in (6.55 m)

Cab to Axle/Trunnion (CT) 192 -in (4877mm);

After Frame (AF) 105-in (2667mm) minimum

Frame Section Modulus (SM), front axle to end of afterframe: 110,000 psi (759 MPa) 20-in3 (327cm3) See "Truck Frame Strength" section.

Estimated bare chassis weight required for stability prior to installation of crane or accessories: Front 9,000 lb (4082 kg) Rear 8,500 lb (3856 kg) 3 10,000 lb (4536 kg) with optional bed

Front Axle Maximum Weight\*\* 10,500 lbs (4763 kg)

\*10,000 lb (4536 kg) is required at the rear axle for 360° stability. This weight does include the weight of the optional bed. Counterweight will be required above the 8500 lb (3856 kg) minimum bare chassis if the

optional bed is not used to attain the 10,000 lb (4536 kg) stability weight.

\*\*Weight in excess of 10,500 lb (4763 kg) will require the addition of a front stabilizer or additional rear axle stability weight for over front stability. One-half of the front axle weight in excess of the maximum at the rear axle will maintain stability.

Example: A 11,000 lb (4990 kg) Bare Front Axle will maintain stability if the rear axle bare is 8750 lb (3969 kg) and 10,250 lb (4649 kg) with the additional optional bed weight.

\*\*\*A single front stabilizer is not necessary for 360° stability if mounting dimensions are maintained and minimum rear axle and maximum front axle weights are not exceeded.

NOTE 1: 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.

NOTE 2: Diesel engines require a variable speed governor and energize-to-run fuel solenoid for smooth crane operation; electronic fuel injection is required.

NOTE 3: All mounting data is based on a National Series 1300A with subbase and an 85 percent stability factor.

NOTE 4: 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.

NOTE 5: Transmission neutral safety interlock switch is required.





### **specifications**

#### **Boom and Jib Combinations Data**

**AVAILABLE IN THREE BASIC MODELS.** 

Model 1369A — Equipped with a 22 ft to 69 ft (6.7-21.03 m) four-section boom. Maximum tip height is 78 ft (23.77 m).

22'-69' (6.7-21.05 m) four-section boom.

Model 13100A — Equipped with a 29 ft to 100 ft (8.83-30.48 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/44ft (13.41 m) jib is 153 ft (44.63 m).

29'-100' (8.83-30.48 m) four-section boom.

29'-100' (8.83-30.48 m) four-section boom.

13FJ44M 25-44 ft. (7.62-13.41 m) two-section jib

Model 13110A — Equipped with a 33 ft to 110 ft (10.05-33.52 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/44ft (13.41 m) jib is 163 ft (49.68 m).

33'-110' (10.05-33.52 m) four-section boom.

33'-110' (10.05-33.52 m) four-section boom.

13FJ44M 25-44 ft. (7.62-13.41 m) two-section jib

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

#### 1300 Winch Data

|   | adhead line blo  |                                       | 1 Part Line                               | 2 Part Line                              | 3 Part Line                                | 4 Part Line                                | 5 Part Line                                | 6 Part Line                               | 7 Part Line                               |
|---|--|---------------------------------------|---|--|--|--|--|---|---|
| Keep at lead on drum     Use only resistant | when extendin<br>east 3 wraps o<br>at all times.<br>9/16" diameter<br>cable with 38,5<br>strength on thi | f loadline<br>rotation-<br>500 pounds |   |  | <b>(5)</b>                                 | ( e  |  |   |   |
|   | OM LENGTH AT N   |                                       | 144' boom jib                             | 100′                                     | 75′  | 60'  | 50 <sup>′</sup>                            | 43'                                       | 36′                                       |
|   | LOCK AT GROUN  |                                       | 154' boom jib                             | 110′                                     | 94′  | 78′  | 62'  | 46′                                       | 32'                                       |
| Winch                                       | Average<br>Cable<br>Supplied   | Breaking<br>Strength                  | Lift and<br>Speed                         | Lift and<br>Speed                        | Lift and<br>Speed                          | Lift and<br>Speed                          | Lift and<br>Speed                          | Lift and<br>Speed                         | Lift and<br>Speed                         |
| Standard<br>Planetary<br>Winch              | 9/16" Diameter<br>Rotation<br>Resistant  | 38,500 lb<br>(17 464 kg)              | 7,700 lb (3493 kg)<br>164 fpm (50 m/min)  | 15,400 lb (6986 kg)<br>82 fpm (25 m/min) | 23,100 lb (10 478 kg)<br>55 fpm (16 m/min) | 30,800 lb (13 971 kg)<br>41 fpm (12 m/min) | 38,500 lb (17 464 kg)<br>33 fpm (10 m/min) | 46200 lb (20 956 kg)<br>27 fpm (8 m/min)  | 53,900 lb (24 449 kg)<br>23 fpm (7 m/min) |
| "Burst<br>of<br>Speed"                      | 9/16" Diameter<br>Rotation<br>Resistant  | 38,500 lb<br>(17 464 kg)              | 3,000 lb (1361 kg)<br>365 fpm (111 m/min) | 6,000 lb (2722 kg)<br>132 fpm (40 m/min) | 9,000 lb (4083 kg)<br>88 fpm (27 m/min)    | 12,000 lb (5443 kg)<br>66 fpm (20 m/min)   | 15,000 lb (6804 kg)<br>53 fpm (16 m/min)   | 18,000 lb (8 165 kg)<br>44 fpm (13 m/min) | 21,000 lb (9 526 kg)<br>38 fpm (11 m/min) |

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:

Standard planetary

4th Layer Drum Pull 7,700 lb. (3493 kg) (low speed) 3,000 lb. (1361 kg) ("burst of speed") Allowable Cable Pull 7,700 lb. (3492 kg)

| Block Type      | Rating        | Welght          |
|-----------------|---------------|-----------------|
| Downhaul Weight | 5 Ton (4.53t) | 150 lb (68 kg)  |
| 1 Sheave Block  | 12 Ton        | 305 lb (139 kg) |
| 2 Sheave Block  | 19 Ton        | 350 lb (159 kg) |
| 3 Sheave Block  | 30 Ton        | 575 lb (261 kg) |
|                 |               |                 |



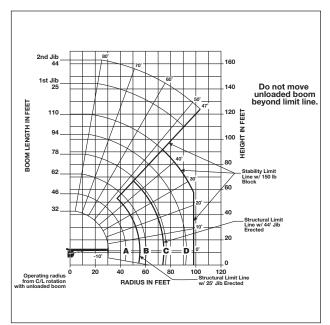


BİGGE

## capacities

#### Load Rating Chart: Series 13110A with 25'-44' Jib / Fullspan Outrigger 20'

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



#### **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 appropriate charts are maximum allowable loads with the crane mounted on a factoryapproved 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 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 13110A** WITH 25'-44' JIB **FULL SPAN OUTRIGGER 20'** 

#### 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.

#### LOADLINE EQUIPMENT DEDUCT (lb.)

| Downhaul weight    | .150 |
|--------------------|------|
| One sheave block   | .305 |
| Two sheave block   | .350 |
| Three sheave block | .575 |
|                    |      |

#### Load Rating: Series 13110A with 25'-44' Jib / Fullspan Outrigger 20'

32 ft - 110 ft BOOM RATED LOADS WITHOUT JIB

| BOOM   | - 1           |        |        |        |        |        | _      |        | _      |        | _      |        |                |
|--|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|
| RADILS   |               | LOADED | 00 (1  | LOADED | A      | LOADED | В      | LOADED | C      | LOADED | D      | LOADED |                |
| (ff)         (deg)         (ff)         (deg) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>110 ft<br/>BOOM</td></t<> |               |        |        |        |        |        |        |        |        |        |        |        | 110 ft<br>BOOM |
| 5         78.5         *60,000         8         74.5         43,000         8         74.5         43,000         77.5         29,100         9   |               |        |        |        |        |        |        |        |        |        |        |        | (ft)           |
| 8         74.5         43,000         77.5         29,100         8         8         74.5         35,900         77.5         29,900         9  |               |        | . ,    | (==3)  | 19     | (== 5) | 19     | (== 3) | ()     | (=-5)  | 17     | (==5)  | ()             |
| 10   |               |        |        |        |        |        |        |        |        |        |        |        |                |
| 12         66.5         30,900         75         28,900         7         23,000         7         23,000         7         23,000         7         23,000         7         17,000         7         18,000         7         17,000         7         17,000         7         17,000         7         17,000         7         17,000         17,000         17,000         17,000   | -             |        |        |        |        |        |        |        |        |        |        |        |                |
| 15         60         25,500         71         24,000         77         23,000           20         48.5         19,450         63.5         18,450         72         17,550         77         17,000           25         34         14,900         56         14,800         67         14,100         73         13,600         77.5         13,300           30         48         12,150         61.5         11,650         69         11,200         74         10,950         77         7           35         38.5         9,600         56         9,850         64.5         9,450         70.5         9,200         74         60           40         27         7,600         49.5         7,950         60.5         8,100         67         7,850         71.5         5           45         36         5,100         51.5         5,530         60         6,800         69         5           50         36         5,100         51.5         5,530         60         5,550         60         5,550         60         5,550         63         4           60         26         4,050         46         4,300   |               |        |        |        |        |        |        |        |        |        |        |        |                |
| 20         48.5         19,450         63.5         18,450         72         17,550         77         17,000           25         34         14,900         56         14,800         67         14,100         73         13,600         77.5         13,300           30         48         12,150         61.5         11,650         69         11,200         74         10,950         77         7           35         38.5         9,600         56         9,850         64.5         9,450         70.5         9,200         74         6           40         27         7,600         49.5         7,950         60.5         8,100         67         7,850         71.5         5           45         43.5         6,350         56         6,600         64         6,800         69         5           50         36         5,100         51.5         5,550         60         5,550         66         5           55         26         4,050         46         4,300         56         4,550         63         5           66         8.5         2,650         40         3,500         52         3,700  | $\overline{}$ |        | ,      |        | .,     |        |        |        |        |        |        |        |                |
| 25         34         14,900         56         14,800         67         14,100         73         13,600         77.5         13,300         77.5         13,300         77         4         6         8         8         11,200         74         10,950         77         7         7         4         6         5         5         5         5         6         5         5         5         6         5         5         5         6         5  |               |        | -,     |        | ,      |        | - 7    |        |        |        |        |        |                |
| 30   | _             |        | -, -   |        | -,     |        |        |        |        |        |        |        |                |
| 35   38.5   9,800   56   9,850   64.5   9,450   70.5   9,200   74   6     40   27   7,600   49.5   7,950   60.5   8,100   67   7,850   71.5   5     45   43.5   6,350   56   6,600   64   6,800   69   5     50   36   5,100   51.5   5,350   60   5,550   66   5     55   26   4,050   46   4,300   56   4,550   63   4     60   8.5   2,650   40   3,500   52   3,700   59.5   3     65   33.5   2,250   48   3,000   56   3     70   25.5   2,250   43   2,450   52.5   2     75   13   1,750   38   1,950   49   2   | 25            | 34     | 14,900 | 56     | 14,800 | 67     | 14,100 | 73     | 13,600 | 77.5   | 13,300 |        |                |
| 40         27         7,600         49.5         7,950         60.5         8,100         67         7,850         71.5         5           45         43.5         6,350         56         6,600         64         6,800         69         5           50         36         5,100         51.5         5,350         60         5,550         66         5           55         26         4,050         46         4,300         56         4,550         63         4           60         8.5         2,650         40         3,500         52         3,700         59.5         3           65         33.5         2,850         48         3,000         56         3           70         25.5         2,250         43         3,00         52.5         2           75         13         1,750         38         1,950         49         2  | 30            |        |        | 48     | 12,150 | 61.5   | 11,650 | 69     | 11,200 | 74     | 10,950 | 77     | 7,950          |
| 45   | 35            |        |        | 38.5   | 9,600  | 56     | 9,850  | 64.5   | 9,450  | 70.5   | 9,200  | 74     | 6,300          |
| 50         36         5,100         51.5         5,350         60         5,550         66         5           55         26         4,050         46         4,300         56         4,550         63         4           60         8.5         2,650         40         3,500         52         3,700         59.5         3           65         33.5         2,850         48         3,000         56         3           70         25.5         2,250         43         2,450         52.5         2           75         13         1,750         38         1,950         49         2  | 40            |        |        | 27     | 7,600  | 49.5   | 7,950  | 60.5   | 8,100  | 67     | 7,850  | 71.5   | 5,950          |
| 55         26         4,050         46         4,300         56         4,550         63         4           60         8.5         2,650         40         3,500         52         3,700         59.5         3           65         33.5         2,850         48         3,000         56         3           70         25.5         2,250         43         2,450         52.5         2           75         13         1,750         38         1,950         49         2   | 45            |        |        |        |        | 43.5   | 6,350  | 56     | 6,600  | 64     | 6,800  | 69     | 5,700          |
| 60 8.5 2,650 40 3,500 52 3,700 59.5 3<br>65 33.5 2,850 48 3,000 56 3<br>70 25.5 2,250 43 2,450 52.5 2<br>75 13 1,750 38 1,950 49 2   | 50            |        |        |        |        | 36     | 5,100  | 51.5   | 5,350  | 60     | 5,550  | 66     | 5,400          |
| 65         33.5         2,850         48         3,000         56         3           70         25.5         2,250         43         2,450         52.5         2           75         13         1,750         38         1,950         49         2  | 55            |        |        |        |        | 26     | 4,050  | 46     | 4,300  | 56     | 4,550  | 63     | 4,750          |
| 70 25.5 2,250 43 2,450 52.5 2<br>75 13 1,750 38 1,950 49 2   | 60            |        |        |        |        | 8.5    | 2,650  | 40     | 3,500  | 52     | 3,700  | 59.5   | 3,900          |
| 75 13 1,750 38 1,950 49 2  | 65            |        |        |        |        |        |        | 33.5   | 2,850  | 48     | 3,000  | 56     | 3,200          |
|  | 70            |        |        |        |        |        |        | 25.5   | 2,250  | 43     | 2,450  | 52.5   | 2,600          |
| 80 32 1.500 45 1   | 75            |        |        |        |        |        |        | 13     | 1,750  | 38     | 1,950  | 49     | 2,100          |
|  | 80            |        |        |        |        |        |        |        |        | 32     | 1,500  | 45     | 1,650          |
|  | 85            |        |        |        |        |        |        |        |        | 25     | 1,100  | 41     | 1,250          |
|  | 90            |        |        |        |        |        |        |        |        | 15     | 750    | 36     | 900            |
|  | 95            |        |        |        |        |        |        |        |        |        |        | 31     | 600            |
| 100  | 100           |        |        |        |        |        |        |        |        |        |        |        |                |
|  |               |        |        |        |        |        |        |        |        |        |        |        |                |

1.450

6,300 0 3,250 0

| 2      | 25 - 44 ft JIB RATED LOADS |       |        |       |  |  |  |  |
|--------|----------------------------|-------|--------|-------|--|--|--|--|
|        | LOADED                     |       | LOADED |       |  |  |  |  |
| LOADED | воом                       | 25 ft | воом   | 44 ft |  |  |  |  |
| RADIUS | ANGLE                      | JIB   | ANGLE  | JIB   |  |  |  |  |
| (ft)   | (deg)                      | (ft)  | (deg)  | (ft)  |  |  |  |  |
| 35     | 76.5                       | 4,200 |        |       |  |  |  |  |
| 40     | 75                         | 4,100 | 76.5   | 2,500 |  |  |  |  |
| 45     | 73                         | 4,000 | 75.5   | 2,500 |  |  |  |  |
| 50     | 71                         | 3,850 | 74     | 2,500 |  |  |  |  |
| 55     | 69                         | 3,600 | 72.5   | 2,500 |  |  |  |  |
| 60     | 66.5                       | 3,300 | 70.5   | 2,350 |  |  |  |  |
| 65     | 64                         | 3,050 | 68.5   | 2,250 |  |  |  |  |
| 70     | 61.5                       | 2,500 | 66.5   | 2,150 |  |  |  |  |
| 75     | 59                         | 2,000 | 64.5   | 2,050 |  |  |  |  |
| 80     | 56                         | 1,550 | 62     | 1,900 |  |  |  |  |
| 85     | 53.5                       | 1,100 | 60     | 1,800 |  |  |  |  |
| 90     | 50.5                       | 700   | 57     | 1,400 |  |  |  |  |
| 95     |                            |       | 54.5   | 1,050 |  |  |  |  |
| 100    |                            |       | 51.5   | 650   |  |  |  |  |
| 105    |                            |       |        |       |  |  |  |  |
|        |                            |       |        |       |  |  |  |  |
|        |                            |       |        |       |  |  |  |  |

\*SHADED AREAS ARE STRUCTURALLY LIMITED CAPACITIES

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.



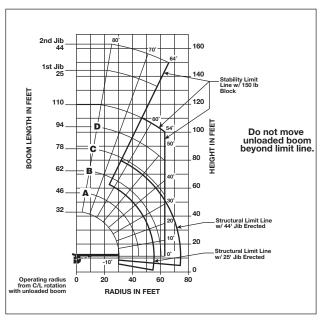




### capacities

#### Load Rating Chart: Series 13110A with 25'-44' Jib / Midspan Outrigger 14'

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



#### 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 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 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 13110A WITH 25'-44' JIB MIDSPAN OUTRIGGER 14'

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#### Load Rating Chart: Series 13110A with 25'-44' Jib / Midspan Outrigger 14'

32 ft - 110 ft BOOM RATED LOADS WITHOUT JIB

| l      | LOADED |          | LOADED | Α      | LOADED | В      | LOADED | С      | LOADED | D      | LOADED |        |
|--------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| LOADED |        | 32 ft    | воом   | 46 ft  | воом   | 62 ft  | воом   | 78 ft  | воом   | 94 ft  | воом   | 110 ft |
| RADIUS | ANGLE  | воом     | ANGLE  | воом   | ANGLE  | воом   | ANGLE  | воом   | ANGLE  | воом   | ANGLE  | воом   |
| (ft)   | (deg)  | (ft)     | (deg)  | (ft)   | (deg)  | (ft)   | (deg)  | (ft)   | (deg)  | (ft)   | (deg)  | (ft)   |
| 5      | 78.5   | * 60,000 |        |        |        |        |        |        |        |        |        |        |
| 8      | 74.5   | 43,000   |        |        |        |        |        |        |        |        |        |        |
| 10     | 70.5   | 35,900   | 77.5   | 34,100 |        |        |        |        |        |        |        |        |
| 12     | 66.5   | 30,900   | 75     | 29,200 |        |        |        |        |        |        |        |        |
| 15     | 60     | 24,300   | 71     | 24,000 | 77     | 20,000 |        |        |        |        |        |        |
| 20     | 48.5   | 13,300   | 63.5   | 13,950 | 72     | 14,400 | 76.5   | 14,900 |        |        |        |        |
| 25     | 34     | 8,350    | 56     | 8,900  | 66.5   | 9,600  | 72     | 9,600  | 76.5   | 10,000 |        |        |
| 30     |        |          | 48     | 6,150  | 61.5   | 6,500  | 68.5   | 6,750  | 73     | 6,900  | 76.5   | 7,250  |
| 35     |        |          | 38.5   | 4,300  | 55.5   | 4,650  | 64     | 4,850  | 69.5   | 5,050  | 73.5   | 5,350  |
| 40     |        |          | 26.5   | 3,050  | 49.5   | 3,350  | 59.5   | 3,550  | 66     | 3,700  | 70.5   | 3,900  |
| 45     |        |          |        |        | 43     | 2,350  | 55     | 2,550  | 62.5   | 2,700  | 67     | 2,850  |
| 50     |        |          |        |        | 35     | 1,650  | 50     | 1,800  | 58.5   | 1,950  | 64     | 2,050  |
| 55     |        |          |        |        | 25     | 1,000  | 45     | 1,200  | 55     | 1,350  | 61     | 1,450  |
| 60     |        |          |        |        | 8      | 550    | 39     | 750    | 50.5   | 850    | 58     | 950    |
| 65     |        |          |        |        |        |        |        |        |        |        | 54.5   | 500    |
| 70     |        |          |        |        |        |        |        |        |        |        |        |        |
|        |        |          |        |        |        |        |        |        |        |        |        |        |
|        | 0      | 5,300    | 0      | 2,100  | 0      | 500    |        |        |        |        |        |        |

| 25 – 44 ft JIB RATED LOADS |                                  |                      |                                  |                      |  |  |  |
|----------------------------|----------------------------------|----------------------|----------------------------------|----------------------|--|--|--|
| LOADED<br>RADIUS<br>(ft)   | LOADED<br>BOOM<br>ANGLE<br>(deg) | 25 ft<br>JIB<br>(ft) | LOADED<br>BOOM<br>ANGLE<br>(deg) | 44 ft<br>JIB<br>(ft) |  |  |  |
| 35                         | 76.5                             | 4,200                |                                  |                      |  |  |  |
| 40                         | 75                               | 4,100                | 76.5                             | 2,500                |  |  |  |
| 45                         | 73                               | 2,650                | 75.5                             | 2,500                |  |  |  |
| 50                         | 71                               | 1,800                | 74                               | 2,500                |  |  |  |
| 55                         | 69                               | 1,200                | 72.5                             | 2,000                |  |  |  |
| 60                         | 66.5                             | 700                  | 70.5                             | 1,400                |  |  |  |
| 65                         |                                  |                      | 68.5                             | 950                  |  |  |  |
| 70                         |                                  |                      |                                  |                      |  |  |  |

1300

\*SHADED AREAS ARE STRUCTURALLY LIMITED CAPACITIES

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.





### accessories

#### 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.

· Model NB4R

#### One-Person Basket -

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

· Model B1-S

· Model 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 lb. (1043 kg) minimum to operate this accessory. • Model BSA-R1 (provides rotation)

· Model BSA-1

#### Air Conditioning -

Back of cab mounted - self contained modular unit with in cab cool air outlets. Requires 130+ amp. chassis alternator.

· Model AC

**Winch Drum Rotation Indicator** 

· Model WDRI

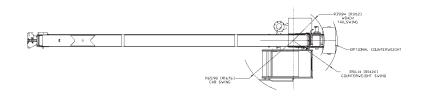
Last Wrap Indicator Option on winch with indicator in cab.

· Model LLI

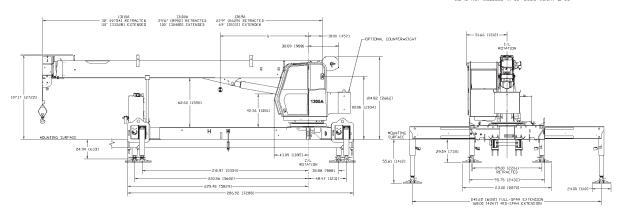
Outrigger Controls at operator's seat in addition to ground controls

· Model ICORC

#### **Dimensions Specifications**



| G C    | ENTER OF GRAVITY | FROM CENTERLINE          |
|--------|------------------|--------------------------|
| SERIES | G                | W/OIL WEIGHT*            |
| 1369A  | 112**            | 25,503 lbs [11,568 kg]** |
| 13100A | 153              | 28,383 lbs [12,474kg]    |
| 13110A | 168              | 29,121 lbs [13,209 kg]   |





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