Features

- 29.9 t (33 USt) rating
- 38.72 m (127 ft) five-section boom
- Self-lubricating “Easy Glide” wear pads
- Internal anti-two-block
- Vision™ cab
Features

National Crane Series 1400A
- 29,9 t (33 USSt) maximum capacity
- 41,15 m (135 ft) maximum tip height (main boom)
- 52,43 m (172 ft) maximum tip height (boom with jib)

Deluxe operator’s cab
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 single axis controls, ventilation fans, diesel heater, and wipers. Optional air conditioning is available. Optional open-seat control station in lieu of enclosed cab is available.

Outriggers
Two sets of “H” style outriggers with 7,47 m (24 ft 6 in) span, with removable ball and socket aluminum foot pads. Independent controls located on each side of the crane can be positioned at mid-span setting of 5,18 m (17 ft). Single front stabilizer (SFO) comes with first-up feature.

Overload protection
All National Crane boom trucks are equipped with overload protection. A Load Moment Indicator (LMI) is standard on all Series 1400A machines. The LMI display console with Work Area Definition System (WADS) is weatherproof. The LCD display is visible in full or low light and displays all crane load lifting values simultaneously.

Five-section boom
At 38,72 m (127 ft), the Series 1400A five-section boom is the longest in its size range. The long boom allows the operator to perform more lifts without the use of a jib, reducing setup time and improving efficiency. Also available are optional four-section boom lengths of 30,5 m (100 ft) and 33,5 m (110 ft).
Best in class performance and serviceability

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

- Easy Glide Boom Wear Pads reduce the conditions that cause boom chatter and vibration. The net result is smoother crane operation.

- Speedy-reeve boom tip and sheave blocks simplify rigging changes by decreasing the time needed to change line reeving.

- Crane components painted before assembly reduce the chance of rust, improve serviceability and enhance the appearance of the crane.

- Internal anti-two block wiring standard on the 1400A routes the wiring through the inside of the boom eliminating the possibility of snagging the wire on obstructions.

- Bearings on the boom and retract cables can be greased through access holes in the boom side plates and number of internal boom parts has been reduced improving serviceability.

- The Series 1400A is supplied with continuous rotation standard, along with the “glide swing” feature, allowing free swing during rotation, and a manually applied foot brake.

- Adjustable swing speed comes standard on the 1400A. A control knob located on the swing motor brake release valve can be easily adjusted to the crane operator’s swing speed preference.

- Oil cooler mounted at boom rest with electric fan is standard.

- Pressure compensated hydraulic system control valves come with load-sensing variable displacement piston pump.

*Product may be shown with optional equipment.
Contents

Mounting configurations 5
Specifications 6
Capacities 8
Dimensions specifications 11
Accessories 12
The mounting configuration shown is based on the Series 1400A 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. If bare truck weights are not met, counterweight will be required. The front bumper stabilizer (SFO) is required for all installations. Chassis must be equipped with a front frame extension suitable for SFO addition. Contact factory for complete chassis specifications.

**Working area** ................................................................. 360°
**Gross Axle Weight Rating Front** ................................................................. 9072 kg (20,000 lb)*
**Gross Axle Weight Rating Rear** ................................................................. 15,422 kg (34,000 lb)*
**Gross Vehicle Weight Rating** ................................................................. 24,494 kg (54,000 lb)*
**Wheelbase** ................................................................. Minimum 655 cm (258 in)
**Cab to Axle/trunnion (CA/CT)** ................................................................. Minimum 457 cm (180 in)
**Frame Section Modulus (SM)** ................................................................. 492 cm³ (30 in³)
**Stability Weight, Front** ................................................................. 4,082 kg (9,000 lb) minimum**
**Stability Weight, Rear** ................................................................. 3,629 kg (8,000 lb) minimum**
**Estimated Average Final Weight** ................................................................. 23,585 kg (51,880 lb)***

The diagram shows the 360° working area that can be achieved with the front stabilizer (standard on the Series 1400A). The front stabilizer is required when extending the boom and lifting loads forward of the outriggers. A minimum of 164 cm³ (10-in³) section modulus at 759 MPa (110,000 psi) is required from the rear of the front spring hanger forward to the front stabilizer. Integral front frame extension required.

* Required to mount basic crane with 9.15 m (30 ft) jib option. Additional options or heavier bare chassis weights will require additional axles or a GVWR in excess of 24,494 kg (54,000 lb); in some states, special permits for overload are required.

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

*** Includes basic crane without jib, 379 L (100 gal) fuel tank and two workers, 136 kg (300 lb) in cab.

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

**Notes:**
- Gross Vehicle Weight Rating (GVWR) is dependent on all components of the vehicle (axes, tires, springs, frame, etc.) meeting manufacturers’ recommendations; always specify GVWR when purchasing trucks.
- Diesel engines require a variable speed governor for smooth crane operation. Electronic fuel-injected engines are required.
- All mounting data is based on a National Crane Series 1400A with the standard 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 per SAE J765; contact the factory for details.
- Transmission neutral safety interlock switch is required.
Specifications

Boom and jib combinations data

**Model 14100A** — Equipped with a 9,40 m - 30,49 m (30 ft 10 in - 100 ft) four-section boom. This model can be equipped with a 9,15 m (30 ft) single-section jib or a 9,15 m - 16,46 m (30 ft - 54 ft) two-section jib. Maximum tip height with 9,15 m (30 ft) jib is 41,77 m (137 ft), while maximum tip height with 9,15 m - 16,46 m (30 ft - 54 ft) jib is 49,08 m (161 ft).

Model 14110A — Equipped with a 10,16 m - 33,53 m (33 ft 4 in - 110 ft) four-section boom. This model can be equipped with a 9,15 m (30 ft) single-section jib or a 9,15 m - 16,46 m (30 ft - 54 ft) two-section jib. Maximum tip height with 9,15 m (30 ft) jib is 44,82 m (147 ft), while maximum tip height with 16,46 m (54 ft) jib is 52,13 m (171 ft).

Model 14127A — Equipped with a 9,63 m - 38,72 m (31 ft 7 in - 127 ft) five-section boom. This model can be equipped with a 9,15 m (30 ft) single-section jib. Maximum tip height with 9,15 m (30 ft) jib is 50,00 m (164 ft).

Note: Maximum tip is measured with outriggers/stabilizers fully extended.
### 1400A winch data

- Do not deadhead line block against boom tip when extending boom.
- Keep at least 3 wraps of loadline on drum at all times.
- Use only 5/8 in diameter rotation-resistant cable with 45,400 lb breaking strength on this machine.
- MAXIMUM BOOM LENGTH AT MAXIMUM ELEVATION WITH RIGGING SHOWN WITH LOAD BLOCK AT GROUND LEVEL.

<table>
<thead>
<tr>
<th>Winch</th>
<th>Cable supplied</th>
<th>Average breaking strength</th>
<th>Lift and speed</th>
<th>Lift and speed</th>
<th>Lift and speed</th>
<th>Lift and speed</th>
<th>Lift and speed</th>
<th>Lift and speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low speed</td>
<td>5/8&quot; diameter rotation resistant</td>
<td>20,591 kg (45,400 lb)</td>
<td>4,082 kg (9,000 lb)</td>
<td>4,965 kg (11,000 lb)</td>
<td>12,347 kg (27,000 lb)</td>
<td>16,329 kg (36,000 lb)</td>
<td>20,412 kg (45,000 lb)</td>
<td>24,494 kg (54,000 lb)</td>
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<tr>
<td>High speed</td>
<td>5/8&quot; diameter rotation resistant</td>
<td>20,591 kg (45,400 lb)</td>
<td>1996 kg (4400 lb)</td>
<td>3,992 kg (8,800 lb)</td>
<td>5,987 kg (13,200 lb)</td>
<td>7,983 kg (17,600 lb)</td>
<td>9,979 kg (22,000 lb)</td>
<td>11,975 kg (26,400 lb)</td>
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</table>

<table>
<thead>
<tr>
<th>Winch</th>
<th>Full drum pull</th>
<th>Allowable cable pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard planetary</td>
<td>1996 kg (4400 lb) high speed</td>
<td>4119 kg (9080 lb)</td>
</tr>
<tr>
<td>4082 kg (9000 lb) low speed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Loadline deduct

<table>
<thead>
<tr>
<th>Block type</th>
<th>Rating</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aux boom head</td>
<td>4.53 t (5 USt)</td>
<td>45 kg (100 lb)</td>
</tr>
<tr>
<td>Downhaul weight</td>
<td>4.53 t (5 USt)</td>
<td>82 kg (180 lb)</td>
</tr>
<tr>
<td>1-sheave block</td>
<td>13.60 t (15 USt)</td>
<td>170 kg (375 lb)</td>
</tr>
<tr>
<td>2-sheave block</td>
<td>22.67 t (25 USt)</td>
<td>290 kg (640 lb)</td>
</tr>
<tr>
<td>3-sheave block</td>
<td>31.74 t (35 USt)</td>
<td>395 kg (870 lb)</td>
</tr>
<tr>
<td>4-sheave block</td>
<td>32.65 t (36 USt)</td>
<td>440 kg (970 lb)</td>
</tr>
</tbody>
</table>
Capacities

100 ft boom with 30 ft jib, full-span outrigger

Other Series 1400A 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 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.

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.

Load chart

<table>
<thead>
<tr>
<th>31 ft - 100 ft BOOM RATED LOADS WITHOUT JIB</th>
<th>30 ft JIB RATED LOADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOADED RADIUS (ft)</td>
<td>LOADED BOOM ANGLE</td>
</tr>
<tr>
<td>6</td>
<td>25.5</td>
</tr>
<tr>
<td>8</td>
<td>31.2</td>
</tr>
<tr>
<td>10</td>
<td>36.9</td>
</tr>
<tr>
<td>12</td>
<td>42.5</td>
</tr>
<tr>
<td>15</td>
<td>55.4</td>
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<tr>
<td>20</td>
<td>62.6</td>
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<td>25</td>
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<td>30</td>
<td>84.5</td>
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<td>45</td>
<td>107.2</td>
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<td>50</td>
<td>114.5</td>
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<td>55</td>
<td>121.7</td>
</tr>
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<td>60</td>
<td>128.9</td>
</tr>
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<td>65</td>
<td>136.1</td>
</tr>
<tr>
<td>70</td>
<td>143.3</td>
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<td>75</td>
<td>150.5</td>
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<td>80</td>
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<td>85</td>
<td>164.9</td>
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<tr>
<td>90</td>
<td>172.1</td>
</tr>
<tr>
<td>95</td>
<td>179.3</td>
</tr>
<tr>
<td>100</td>
<td>186.5</td>
</tr>
</tbody>
</table>

*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.
Other Series 1400A 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 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.

**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.

---

**Load chart**

### 33 ft - 110 ft Boom Rated Loads Without Jib

<table>
<thead>
<tr>
<th>LOAD RADIUS (ft)</th>
<th>LOADED BOOM ANGLE</th>
<th>33 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>46 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>62 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>78 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>94 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>110 ft BOOM (lb)</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>6.7</td>
<td>66,300</td>
<td>10</td>
<td>78.8</td>
<td>51,300</td>
<td>15</td>
<td>58.6</td>
<td>32,300</td>
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<td>28,000</td>
<td>75.6</td>
<td>24,900</td>
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<tr>
<td>10</td>
<td>58.9</td>
<td>42,200</td>
<td>17</td>
<td>43.2</td>
<td>21,650</td>
<td>24</td>
<td>44.2</td>
<td>15,100</td>
<td>59.8</td>
<td>13,600</td>
<td>57.1</td>
<td>12,400</td>
</tr>
<tr>
<td>20</td>
<td>61.3</td>
<td>37,600</td>
<td>30</td>
<td>46.2</td>
<td>21,650</td>
<td>40</td>
<td>10.2</td>
<td>67</td>
<td>71.9</td>
<td>12,300</td>
<td>75.1</td>
<td>9,200</td>
</tr>
<tr>
<td>35</td>
<td>36.1</td>
<td>12,750</td>
<td>45</td>
<td>22.9</td>
<td>10,100</td>
<td>60</td>
<td>24.3</td>
<td>31.9</td>
<td>40.0</td>
<td>32.1</td>
<td>46.3</td>
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<tr>
<td>45</td>
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<td>50</td>
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<td>16,200</td>
<td>65</td>
<td>26.0</td>
<td>44.5</td>
<td>56.0</td>
<td>44.5</td>
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<td>60.0</td>
</tr>
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<td>30.0</td>
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<td>24.7</td>
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<td></td>
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<td>600</td>
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</tbody>
</table>

*Shaded areas are structurally limited capacities.

---

**30 ft - 54 ft Jib Rated Loads**

<table>
<thead>
<tr>
<th>LOAD RADIUS (ft)</th>
<th>LOADED BOOM ANGLE</th>
<th>30 ft JIB (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>54 ft JIB (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>79.1</td>
<td>5950</td>
<td>15</td>
<td>79.1</td>
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<td>40</td>
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</tr>
<tr>
<td>45</td>
<td>74.7</td>
<td>4700</td>
<td>25</td>
<td>77.1</td>
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<td>50</td>
<td>71.2</td>
<td>4400</td>
<td>30</td>
<td>77.1</td>
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<td>72.5</td>
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<td>60</td>
<td>67.3</td>
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<td>65</td>
<td>65.1</td>
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<td>70</td>
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<td>50</td>
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<td>2850</td>
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<td>51.2</td>
<td>1000</td>
<td>90</td>
<td>51.2</td>
</tr>
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<td>115</td>
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<td>750</td>
<td>95</td>
<td>48.7</td>
</tr>
<tr>
<td>120</td>
<td>46.1</td>
<td>500</td>
<td>100</td>
<td>46.1</td>
</tr>
</tbody>
</table>

*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._

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9
Operating 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 exceed jib capacities 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.

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.

**Load chart**

<table>
<thead>
<tr>
<th>LOAD RADIUS (ft)</th>
<th>LOADED BOOM ANGLE</th>
<th>1/2 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>1/2 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>1/2 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>1/2 ft BOOM (lb)</th>
<th>LOADED BOOM ANGLE</th>
<th>1/2 ft BOOM (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>76.5</td>
<td>66,000</td>
<td>12</td>
<td>47.1</td>
<td>3700</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>8</td>
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<td>48,060</td>
<td>10</td>
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**30 ft jib rated loads**

<table>
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<tr>
<th>LOAD RADIUS (ft)</th>
<th>LOADED BOOM ANGLE</th>
<th>30 ft JIB (lb)</th>
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</thead>
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*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 are in mm (in) unless otherwise specified.

<table>
<thead>
<tr>
<th>G center of gravity from centerline</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td><strong>G</strong></td>
<td><strong>w/oil weight</strong></td>
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<tr>
<td>14100A</td>
<td>2032 mm (80 in)</td>
<td>13 473 kg (29,640 lb)</td>
</tr>
<tr>
<td>14110A</td>
<td>2083 mm (82 in)</td>
<td>13 868kg (30,510 lb)</td>
</tr>
<tr>
<td>14127A</td>
<td>2159 mm (85 ft)</td>
<td>14 718 kg (32,380 lb)</td>
</tr>
</tbody>
</table>

*Weight includes all items including complete HO outriggers, 82 kg (180 lb) downhaul weight, reservoir, decks, ladders and SFO. Booms fully retracted. Pump, and PTO not included.
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

Heavy-duty Personnel Basket –
One and two person baskets for main boom and jib are available.

• BSA-1
• BSA-R1 (provides rotation)
• BSAY-2

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

• AC

Outrigger Controls at operator’s seat in addition to ground controls.

• ICORC

Open Seat Controls

• SSC

Auxiliary Winch –
9000 lb line pull with 375 ft of 5/8 in diameter rotation-resistant wire rope.

• WOAW

Spanish-Language Danger Decals, Control Knobs, and Operators’ Manuals

• SDD
• SOM
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Russia  
Moscow  
South Africa  
Johannesburg  
U.A.E.  
Dubai  
U.K.  
Buckingham

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