STINGER 3063B | Boom Truck Crane

FEATURES

- 30,000 lb (13,607 kg) maximum lifting capacity
- 73’ (22.25 m) maximum sheave height
- 113’ (34.44 m) maximum sheave height with 24-40’ (7.31-12.19 m) jib
- 25-63’ (7.62-19.20 m) three-section full power fully synchronized boom
- Exclusive color coded boom and load charts
- Easy-to-install optional 24’ (7.30 m) one stage or 24-40’ (7.31-12.19 m) two stage telescoping jib, man baskets or work platform increase job capacities
- Electronic Load Moment Indicator and anti-two-block device standard
- Externally located planetary rotation drive for easy accessibility for maintenance
- 2-speed planetary winch has 10,500 lb (4,763 kg) maximum permissible 1 part line, 37,000 lb (16,782 kg) breaking strength, 186 ft/min (57 m/min) maximum line speed
- Dual control station with direct mechanically controlled hydraulic system
- 70 gal (266 L) capacity hydraulic tank
# Load Ratings

## General Notes

**JIB CAPACITIES FOR ALL BOOM LENGTHS**

VERIFY OPERATIONAL MODE SETTING ON LMI DISPLAY BEFORE LIFTING WITH JIB

<table>
<thead>
<tr>
<th>OPERATING RADIUS (FT)</th>
<th>25 FT</th>
<th>35 FT</th>
<th>44 FT</th>
<th>53 FT</th>
<th>63 FT</th>
<th>OPERATING RADIUS (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOADED BOOM ANGLE (DEG)</td>
<td>LOAD RATING (LB)</td>
<td>LOAD RATING (LB)</td>
<td>LOAD RATING (LB)</td>
<td>LOAD RATING (LB)</td>
<td>LOAD RATING (LB)</td>
<td>LOAD RATING (LB)</td>
</tr>
<tr>
<td>5</td>
<td>70°</td>
<td>30,000*</td>
<td>74°</td>
<td>15,800*</td>
<td>78°</td>
<td>15,625*</td>
</tr>
<tr>
<td>6</td>
<td>88°</td>
<td>20,150*</td>
<td>77°</td>
<td>14,750*</td>
<td>76°</td>
<td>14,400*</td>
</tr>
<tr>
<td>10</td>
<td>63°</td>
<td>17,050*</td>
<td>77°</td>
<td>14,750*</td>
<td>76°</td>
<td>14,400*</td>
</tr>
<tr>
<td>12</td>
<td>56°</td>
<td>14,650*</td>
<td>68°</td>
<td>12,650*</td>
<td>73°</td>
<td>12,200*</td>
</tr>
<tr>
<td>15</td>
<td>49°</td>
<td>12,125*</td>
<td>63°</td>
<td>10,475*</td>
<td>68°</td>
<td>10,050*</td>
</tr>
<tr>
<td>20</td>
<td>31°</td>
<td>8,900*</td>
<td>53°</td>
<td>8,190*</td>
<td>69°</td>
<td>7,190*</td>
</tr>
<tr>
<td>25</td>
<td>26°</td>
<td>6,400*</td>
<td>54°</td>
<td>6,675*</td>
<td>61°</td>
<td>5,975*</td>
</tr>
</tbody>
</table>

**NOTE:**

STRUCTURAL STRENGTH RATINGS IN CHART ARE INDICATED WITH AN ASTERISK (*).

<table>
<thead>
<tr>
<th>STOWED JIB DEDUCTIONS (POUNDS)</th>
<th>450</th>
<th>325</th>
<th>250</th>
<th>200</th>
<th>175</th>
</tr>
</thead>
</table>

## Jib Capacities for All Boom Lengths

<table>
<thead>
<tr>
<th>Loaded Boom Angle</th>
<th>Retracted 24 ft Jib</th>
<th>Extended 40 ft Jib</th>
</tr>
</thead>
<tbody>
<tr>
<td>35°</td>
<td>700</td>
<td>520</td>
</tr>
<tr>
<td>40°</td>
<td>825</td>
<td>580</td>
</tr>
<tr>
<td>45°</td>
<td>1,000</td>
<td>650</td>
</tr>
<tr>
<td>50°</td>
<td>1,150</td>
<td>730</td>
</tr>
<tr>
<td>55°</td>
<td>1,340</td>
<td>810</td>
</tr>
<tr>
<td>60°</td>
<td>1,600</td>
<td>930</td>
</tr>
<tr>
<td>65°</td>
<td>1,900</td>
<td>1,080</td>
</tr>
<tr>
<td>70°</td>
<td>2,300</td>
<td>1,400</td>
</tr>
<tr>
<td>75°</td>
<td>3,100</td>
<td>1,810</td>
</tr>
<tr>
<td>80°</td>
<td>4,160</td>
<td>2,260</td>
</tr>
</tbody>
</table>

## General Notes

1. The operator must read and understand the Owner’s Manual before operating this crane.
2. Positioning or operation of crane beyond areas shown on this chart is not intended or approved except where specified in Owner’s Manual.
3. Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for deflections. Do not exceed the operating radius for rated loads.
4. Use rating of next longer boom for boom lengths not shown. Use rating of next greater radius for load radii not shown.
5. Boom must be fully retracted when jib is erected before lowering below minimum angle. Retracted jib has no lifting capacity below a 50° boom angle.
6. Use rating of next lower boom angle for boom angles not shown on jib load rating chart.
7. Lifting off the main boom point while the swing around jib is erected is not intended or approved.
8. Do not lower boom into this area, as hydraulic pressure will not allow raising the boom without retracting boom first.
9. Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on a firm uniform supporting surface. No attempt shall be made to move a load horizontally on the ground in any direction.
10. Practical working loads depend on supporting surface, wind and other factors affecting stability such as hazardous surroundings, experience of personnel, and proper handling, must all be taken into account by the operator.
11. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, and boom lubrication. It is safe to attempt to telescope any load within the limits of the load rating chart.

## Definitions

1. Load ratings must be made from rated loads for stowed jib, optional attachments, hooks and loadblocks (see deduction chart). Weights of slings and other load handling devices shall be considered a part of the load.
2. Crane load ratings with outriggers are based on outriggers and stabilizers extended and set with all load removed from the carrier wheels.
3. Load ratings do not exceed 85% of tipping load.

## Information

1. Deductions must be made from rated loads for stowed jib, optional attachments, hooks and loadblocks (see deduction chart). Weights of slings and other load handling devices shall be considered a part of the load.
2. Crane load ratings with outriggers are based on outriggers and stabilizers extended and set with all load removed from the carrier wheels.
3. Load ratings do not exceed 85% of tipping load.

## Diagram

- **RANGE DIAGRAM (25 - 63 FT BOOM)**
- **CORE OF ROTATION**
- **CENTRELINE OF ROTATION**
- **CAUTION: DO NOT EXCEED JIB INTO THIS AREA**
- **SEE NOTE 5**

This information is for reference use only. Operators manual should be consulted and adhered to. Please contact Bigge Crane and Rigging Co. at 888-337-BIGGE or email info@bigge.com for further information.
**WINCH DATA**

<table>
<thead>
<tr>
<th>Winch</th>
<th>Cable Supplied</th>
<th>Lift and Speed</th>
<th>Lift and Speed</th>
<th>Lift and Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Std.</td>
<td>9/16” Diam IP</td>
<td>10,500 lb</td>
<td>186 fpm</td>
<td>21,000 lb</td>
</tr>
<tr>
<td>MT</td>
<td>9/16” Diam Rotation Resistant</td>
<td>6,720 lb</td>
<td>186 fpm</td>
<td>13,440 lb</td>
</tr>
</tbody>
</table>

**BLOCK TYPE**

- **Overhaul Ball**: Rating: 6.25 ton (5.7 mt)
- **1 Sheave Block**: Rating: 17.5 ton (15.9 mt)

**CAUTION**

Overload and anti-two block systems must be in good operating condition before operating crane. Refer to Owners Manual. Keep at least 3 wraps of loadline on drum at all times. Use only 9/16” diameter cable with 37,000 lb. breaking strength on this machine.

**INCLUDED OPTIONS**

- Fuel Tank (45 gal) 175 L
- Power steering
- Electric Horn
- Factory A/C
- Power Port (Cigar Lighter)
- AM/FM Radio w/ Clock
- Dual West Coast Stainless Rear View Mirrors
- Standard Factory Warranty

**CHASSIS RECOMMENDATIONS**

- Combined Axle Weight Rating: 33,000 lb (14 969 kg)
- Front Axle Weight Rating: 12,000 lb (5 443 kg)
- Rear Axle Weight Rating: 21,000 lb (9 526 kg)
- Wheel base: 242 in (6.15 m)
- Cab to Axle: 168 in (4.27 m)
- Afterframe: 60 in (1.53 m)
- Frame Section Modulus: 16.98 in3 (278 cm3)
- RMB per Frame Rail: 1,400,000 in/lb (16 130 kg/m)
- Frame Height (Unloaded): 40” (762 cm)
- Exhaust Position: Horizontal Left Side
STINGER 3063B | Boom Truck Crane

**BOOM**

- 25-63’ (7.62-19.20 m) three-section full power mechanically synchronized boom. Patented keel boom design utilizes a keel shaped base plate combined with a deep, four plate boom section to optimize strength / rigidity-to-height ratio. Exclusive, patented color-coded boom and load charts allow the operator to easily determine boom extension, boom angle and load capacity. Maximum tip height with three-section 25-63’ (7.62-19.20 m) boom is 73’ (22.25 m). Maximum tip height with optional two-stage 24-40’ (7.31-12.19 m) jib is 113’ (34.44 m).

**WINCH**

- Hydraulic winch with gear motor and planetary reduction gearing provides 2-speed operation. First layer rope pull is 11,400 lb (5,170 kg). Wire rope size is 9/16’ (14 mm) with 37,000 lb (16,783 kg) breaking strength.

**OPERATING SPEEDS**

- Mainframe / turret assembly planetary gear rotation provides 180º rotation (370º with optional front bumper outrigger). Swing rotation is 55 seconds. Boom up/down is 25/16 seconds and boom extend/retract is 54/26 seconds.

**HYDRAULICS**

- Three-section pump allows the operator to perform simultaneous crane operations (winch, boom and swing). Capacities are 32, 17 and 8 gpm (122, 64 and 30 L/min). Hydraulic tank capacity is 70 gal (265 L/m³).

**CONTROLS**

- Fully proportional, excellent metering characteristics for precise boom movements. Independent outrigger controls allow the crane to be stable and level in rigorous working conditions. Load Moment Indication System has audio alarm and functional shut down when operator encounters an overload situation.

**OUTRIGGERS**

- Front outriggers are Link-Type. The maximum width over main outrigger pad is 20’ 5” (6.23 m), main outrigger spread at maximum ground penetration is 20’ (6.10 m).
- Rear outriggers are A-Frame. The maximum width over auxiliary outrigger pads is 10’ 2” (3.09 m).

**SUBFRAME**

- Single fabricated, closed-box style subframe yields greater strength and rigidity. Wheelbase for standard truck crane mounting configuration is 242” (6.15 m).

**OPTIONS AND ACCESSORIES**

- Single and two-stage jibs
- Multi-part load blocks
- Main winch with 2 speed motor
- Auxiliary winch
- Rotation-resistant load line
- Radio remote controls
- One-man or two-man baskets
- Self-leveling work platform
- Heavy duty wood flatbeds
- Extra heavy duty wood flatbeds
- Extra heavy duty steel flatbeds
- Winch drum tensioner
- Continuous rotation
- Oil cooler
- Tool box
- Single front bumper outrigger (required for 370° or continuous rotation)
- Hydraulic hose reel
- Hydraulic auxiliary tool circuit

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