HC-238H II

HYLAB Series Lattice Boom Truck Crane
150-ton (136.08 mt)

- 150 tons (136.08 mt) at an 10\' radius
- 50\' to 260\' (15.24 - 79.25 m) of tube boom
- 239\' + 75\' (70.10 + 22.86) boom plus jib combination
- 308\' (93.88) maximum tip height
- 270\' (82.30 m) maximum 360\' working radius
- New luffer design, 27-ton (24.5 mt) capacity, 347 (106.77 m) maximum luffing boom tip height and 240\' (73.15 m) maximum 360\' working radius
- 35,913 lb (16 290 kg) maximum winch line pull
- 557 fpm (169.77 m/min) maximum winch line speed

HC-248H

HYLAB Series Lattice Boom Truck Crane
200-ton (181.5 mt)

- 200 tons (181.5 mt) at a 10\' radius
- 50\' to 280\' (15.24 - 85.34 m) of tube boom
- 240\' + 100\' (73.15 + 30.48 m) boom plus jib combination
- 343\' (104.54 m) maximum tip height
- 270\' (82.30 m) maximum 360\' working radius
- 42.5-ton (38.5 mt) capacity luffer - 375\' (114.30 m) maximum luffing boom tip height and 231\' (70.41 m) maximum 360\' working radius
- 48,620 lb (22 054 kg) maximum winch line pull
- 595 fpm (181.36 m/min) maximum winch line speed

Link-Belt
CONSTRUCTION EQUIPMENT
HC-238H II
HYLAB Lattice Boom Truck Crane
150-ton (136.08 mt)

HC-248H
HYLAB Lattice Boom Truck Crane
200-ton (181.5 mt)

- Bullet-proof HYLAB hydraulic system
- Outstanding features and lift capacity performance
- Industry’s best carriers, PLUS
  - Pick & carry performance
  - Ability to walk with full counterweight and luffing attachment
  - Optimum transportability — fast outrigger box removal

Outstanding carrier features with solid, reliable performance
- Carrier frame — new, improved design provides solid lifting platform for luffer applications
- Comfortable carrier cab provides high visibility
- 430 hp (320 kW) Detroit Diesel Series 60 engine (tuned)
- Eaton RTD 14908EL transmission
- Jake brake provides more braking power
- Separate steering pump allows operator to simultaneously drive and operate outriggers, providing smooth “floating” of outriggers
- Four Series 31 batteries are durable and designed for cold weather use.
- Convenient battery disconnects
- Easy access panels allow full engine, battery & hydraulic filter access
- Fuel cooler keeps fuel temperature constant so fuel injectors won’t overheat.
- Block heater - standard

Link-Belt
CONSTRUCTION EQUIPMENT

Direct drive allows for simultaneous operation of outriggers and steering system for pick & carry operations

Smooth highway travel with superior pick-and-carry capacities
- Front air-ride suspension (standard) provides a smooth ride for precise handling. For “pick-and-carry” operations, the air bags are deflated with a flick of a switch, allowing the suspension to rest solid.
- Rack and pinion Sheppard steering system is more responsive and has less play in the wheel.
- Tubeless 25” on/off highway tires are inherently balanced, giving you a smoother ride.
- Spun disc rims are true with a tighter tolerance and greater capacities.
- Interaxle differential is permanently locked to allow for maximum traction.

No need to remove bumper counterweight for job site travel, unlike competitors.

Partial counterweight charts available

Aluminum fuel tank resists corrosion, reduces travel weight.
Non-slip safety strips and quick storage catwalks provide sure-footed access to the crane upper.

Five conveniently-located remote throttle controls allow a single operator to set the outriggers.
All sheaves are sealed and maintenance-free, giving HYLAB owners outstanding reliability.
**Bullet-proof hydraulics and a strong power plant**

**QUALITY PROVEN FOR MANY YEARS IN QUALITY LINK-BELT PRODUCTS**

Powered by the biggest and most quiet engine in its class, the Isuzu engine is fuel efficient and has proven to be very reliable. It has a high cooling capacity and provides high line speeds at higher line pulls.

**Load control**

The variable displacement system provides infinite control of load speed in hoist and lowering modes. Load speed is directly proportional to lever movement. This infinite control of drum speed allows the operator to choose the most efficient speed for each load.

**Fine inching control**

For super precise control of load lowering/hoisting, hydraulic pump flow can be minimized with the flip of a switch, allowing the operator to place loads with either the main or rear drums with extreme accuracy.

**Boom hoist**

Independent hydraulic boom hoist is driven by a variable displacement axial piston motor through a gear reduction system. This system features infinitely variable boom hoist speed, automatic boom hoist brake and a limiting device that restricts hoisting boom beyond recommended minimum radius.

---

**Comfort and control at your fingertips**

The HYLAB crane operations control center provides excellent visibility and is ergonomically designed for maximum operating comfort and control. Features include:

- Armchair mounted pilot-operated hydraulic controls
- Swing-up roof window with wiper
- Sliding front glass
- Engine instrumentation panel with backlit gauges
- Six-way adjustable seat
- Hand and foot throttle
- 18,500 BTU air conditioning
- 19,000 BTU heater

**Operator’s console features include:**

- Free-fall mode indicator
- Load indicator
- Anti-two block override switch
- Boom hoist override switch
- Limit alarm indicator light
- System override switch and indicator light
- Front, rear and third drum lock switch
- Swing lever with swing brake and horn located on handle
- Mechanical drum rotation indicators in controller

---

**Smooth swing glide**

- Hydraulic swing through two hydraulic motors/drive reductions gives great swing response with fantastic “free swing.”
- Mechanical brake release for use with boom dolley

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*The HC-238H II comes standard with the PAT DS-350/1334 rated capacity limiter with all of the above features in addition to a graphic display. The PAT DS-350/1334 is pictured to the right.*
Moves in 8 loads with max boom, max jib and full counterweight

Link-Belt leads the way in designing roadable, big capacity truck cranes and nowhere is this more evident than with the HYLAB Series. The weight efficient design and built-in stripdown features of the HC-238H II and HC-248H will get your big capacity crane to the next job site quicker and at less cost.

No helper crane required

The HC-238H II and HC-248H are designed to be self-erecting and self-stripping. The optional 10’ extension with lifting sheaves is used to assemble/disassemble, or the live mast can be used as a short boom for loading and handling counterweight, outrigger boxes and boom sections — eliminating the need for a helper crane.

Hydraulic cylinders pull/extend bottom pins and rear outrigger box is simply slipped off of hooks.

The front outrigger box can be easily removed for transport in locations with severe weight restrictions.

HC-238H II base machine travels at under 85,000 lbs (38 555 kg) and the HC-248H travels at under 93,000 lbs (42 145 kg).

Exclusive weight transfer option

To optimize axle loadings, a patented weight transfer system flips the mast over the rear of the upper structure, transferring up to 5,466 lbs. (2 479 kg) for the HC-238H II and 9,101 lbs (4 128 kg) for the HC-248H from the rear axe tandem to the front axe tandem to meet the most strict highway laws, making the HYLAB series the most roadable large truck cranes available today.

Air and electrical hook-ups on the rear of the carrier for boom dolly, trailer or tag axle — standard

Pusher axle mount option allows more weight to be carried on the machine during transport.
Available attachments provide strength and versatility

Conventional open throat boom
- **HC-238H II:** 50’ - 280’ (15.24 - 85.34 m) conventional boom
  - Using pin-connected sections and open throat top section, the HC-238H II provides the longest boom lengths in this machine class.
- **HC-248H:** 50’ - 280’ (15.24 - 85.34 m) conventional boom
  - Main chord members are made with 100,000 psi yield material with high strength lattice.
  - Boom suspension is achieved through 18-part boom hoist reeling with dual pendant ropes.
  - Standard equipment deflector rollers protect lattice sections from wire rope scuffing.

Auxiliary 5’ (1.5 m) tip extension
- Optional — designed to provide clearance between two working hoist lines

Boom and jib — open throat
- **HC-238H II:** 230’ + 75’ (70.10 m + 22.86 m) boom + fixed jib
- **HC-248H:** 240’ + 100’ (73.15 m + 30.48 m) boom + fixed jib
  - Jib is common to other Link-Belt models.

Luffing boom attachment
**HC-238H II:**
- 165° + 160° + 30° (50.29 + 48.77 + 9.14 m) luffing boom + luffing jib + fixed jib
- Luffing boom attachment is common to LS-238H
- Luffing attachment for the HC-238H II is designed with luffing jib reeling anchored off the luffing boom to keep reving down low within operator’s view — easy to assemble.
- Top section assembly of luffing transports as one piece and makes for fast, easy assembly to the luffing jib.

**HC-248H:**
- 180° + 160° + 30° (54.86 + 48.77 + 9.14 m) luffing boom + luffing jib + fixed jib
- Luffing boom attachment is common to LS-248H
- Conventional boom also serves as luffing boom
- This attachment flexibility and simplicity makes the HC-238H II and HC-248H — conventional or with luffing attachment — the first machines of choice to go out of the yard and to the job!
- Hydraulic third drum mounted in boom base to provide two working lines with luffing is also available.

10’ (3.05 m) self-assembly section
- Shown on luffing boom — is available for all configurations.
- Required on the HC-238H II luffing boom make-up

All boom sections are manufactured in Lexington, Kentucky for fast, easy service, parts and replacement.
Specifications
Hydraulic Lattice Boom Truck Crane

HC-248H  200-Ton (181.50 metric ton)

General dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>Feet</th>
<th>Meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall width, outriggers retracted (floats removed)</td>
<td>11'0&quot;</td>
<td>3.35</td>
</tr>
<tr>
<td>Minimum ground clearance (at bottom of front bogie beam)</td>
<td>11&quot;</td>
<td>.33</td>
</tr>
<tr>
<td>Ground clearance under counterweight with machine on tires</td>
<td>5'8.75&quot;</td>
<td>1.75</td>
</tr>
<tr>
<td>Overall cab width (upper)</td>
<td>11'0&quot;</td>
<td>3.35</td>
</tr>
<tr>
<td>Radius of boom hinge pin</td>
<td>3'3.4&quot;</td>
<td>1.00</td>
</tr>
<tr>
<td>Vehicle turning diameter - Centerline outside front tire</td>
<td>106&quot;</td>
<td>32.30</td>
</tr>
<tr>
<td>Vehicle turning diameter - Outside of outer front tire (curb clearance)</td>
<td>107.3&quot;</td>
<td>32.69</td>
</tr>
<tr>
<td>Vehicle clearance over front bumper</td>
<td>11'1&quot;8&quot;</td>
<td>34.03</td>
</tr>
<tr>
<td>Vehicle clearance over &quot;A&quot; front bumper cwt</td>
<td>113'2&quot;</td>
<td>34.49</td>
</tr>
<tr>
<td>Vehicle clearance over &quot;AB&quot; front bumper cwt</td>
<td>113'10&quot;</td>
<td>34.70</td>
</tr>
</tbody>
</table>
Boom, Live Mast and Jib

- **Tubular Boom**
  
  **Basic Boom** – Two-piece 50' (15.24 m) long. Each section is 80" (2.03 m) wide by 68" (1.73 m) deep at the connections. Chords are 4" (.10 m) diameter alloy steel.

  **Boom Connections** – In-line pin connections.

  **Base Section** – 20' (6.10 m) long with the boomfleets on 55.12" (1.40 m) centers.

  **Boom Extensions** – Available in 10’, 20’, 30’, 40’ and 50’ (3.05, 6.10, 9.14, 12.19 and 15.24 m) lengths with appropriate length pendants. Maximum boom length combination is 280’ (85.34 m).

  **Boom Extension with lifting Sheaves** – An optional 10’ (3.05 m) long section with lifting sheaves is designed to assist in the assembly and disassembly of the counterweights and outriggers.

  **Tip Section** – 30’ (9.14 m) long with open-throat top section.

  **Boompoint Machinery** – Six 20.75" (.53 m) root diameter sheaves mounted on sealed anti-friction bearings for lift crane applications.

  **Boom Angle Indicator** – Pendulum type mounted on boom base section.

- **Boom Live Mast**
  
  **Standard** – 30’ (9.14 m) long supports the boomhoist bridle and boom pendants, and is required for all boom lengths and combinations. May be used in the assembly and disassembly of the boom, counterweights and outriggers, but not intended for lift crane service.

    **Note:** The mast may be self-stored either over the rear or the front of the upperstructure to help meet weight restriction when traveling.

  **Optional (Live Mast Weight Transfer System)** – Hydraulic cylinders position the live mast over the rear of the upperstructure to transfer weight from one axle group to the other.

- **Tubular Jib**
  
  **Basic Jib** – Two-piece 30’ (9.14 m) long. Each section is 32’ (.81 m) wide by 24” (.61 m) deep at the connections. Chords are 2.25” (57 mm) diameter alloy steel.

  **Jib Connections** – In-line pin connections.

  **Jib Offsets** – All jib length combinations can be offset to 5, 15 and 25 degrees.

  **Base Section** – 15’ (4.57 m) long.

- **Jib Extensions** – Available in 10’ and 20’ (3.05, and 6.10 m) lengths with appropriate length pendants. Maximum jib length combination is 100’ (30.48 m). Maximum boom plus jib combination is 240’ (73.15 m) plus 100’ (30.48 m).

  **Tip Section** – 15’ (4.57 m) long equipped with a single peak 21” (.53 m) root diameter sheave. The sheave is mounted on sealed anti-friction bearings for lift crane applications. An anchor is provided at the peak for two-part load hoist wire rope (whipline) connection.

  **Jib Mast** – 17’10” (5.44 m) long is mounted on the jib base section. A deflector sheave is mounted within the mast to guide the whipline. Two equalizer sheaves are mounted to the top of the mast – one for the front stayline and the other for the back stayline. All sheaves are mounted on sealed anti-friction bearings for lift crane applications.

  **Jib staylines** – The back staylines vary in length depending on the degree of jib offset from the boom centerline and attaches at the bottom end of the boom top section. The front staylines vary in length depending on the length of the jib.

  **Jib stops** – Telescoping type, pinned from jib mast to boom top section and from jib mast to jib base section.

Upperstructure

- **General**
  
  **Frame** – High strength alloy steel.

  **Machinery Cab** – Hinged doors (one on right side and two on the left side) for machinery access. Equipped with rooftop access ladder, electric warning horn and skid-resistant finish on roof.

  **Catwalks** – Standard on operator’s side. Catwalks remove to reduce travel width.

  **Bail** – Mounted on sealed anti-friction bearings, seven sheaves are provided for 16 part boom hoist wire rope reeving.

- **Swing**
  
  Independent, an axial piston motor through a gear reduction system drives hydraulic swing. Free swing when lever is in neutral position.

  **Swing Brake** – 360 degree; spring applied, hydraulically released; electrically controlled by a button on the swing control lever.

  **Travel Swing Lock** – Two position locking mechanism mechanically controlled from the operator’s cab.

  **Turntable bearing** – Inner race with integral swing (race) gear mounted on carrier.

  **Swing Speed** – Variable from 0 to 2 rpm

- **Load Hoist System**
  
  Mounted on sealed anti-friction bearings, the main (front) and auxiliary (rear) hoists are 19” (.48 m) root diameter grooved for 1” (25 mm) wire rope. Each drum is reduction geared and powered by a fixed displacement axial piston motor. Actuating or reversing the hydraulic motor provides load hoisting or lowering. Smooth, precise power load lowering is attained with an automatic hydraulic brake. The operator control levers provides two speeds for hoisting and lowering. Additional, each drum is equipped with audible-type rotation indicators.

  **Drum Clutches** – Speed-o-Matic power two-shoe clutches; 30” (.76 m) diameter, 6.5” (.17 m) width; internal expanding, lined shoes. Clutch spiders are splined to shafts; clutch drums are integral with hoist drums.

  **Freefall** – For use in high cycle and duty cycle applications, hydraulic controlled two-shoe clutches allow freefall operation of the main and auxiliary hoist drums. Electrically activated by a mode selection switch in the operator’s cab.

  **Drum Brakes** – External contracting band-type; operated by foot pedal equipped with a locking latch. Operator may select automatic brake mode* (spring applied, hydraulic release), which will apply brakes when the hoist lever is in the neutral position.

  *Automatic brake mode meets all OSHA requirements for personnel handling.

  **Drum Locking Pawls** – Electrically actuated and prevents drum rotation in a load lowering condition.
## Load Hoisting Performance

Available line speed and line pull
Line pulls are not based on wire rope strength. See wire rope chart below for maximum permissible single part of line working loads.

### Line Speeds and Pulls

<table>
<thead>
<tr>
<th>Rope layer</th>
<th>Front Drum - 1&quot; (25 mm) wire rope</th>
<th>Rear Drum - 1&quot; (25 mm) wire rope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maximum line pull</td>
<td>No load line speed</td>
</tr>
<tr>
<td></td>
<td>lbs.</td>
<td>kg</td>
</tr>
<tr>
<td>1</td>
<td>48,622</td>
<td>22,055</td>
</tr>
<tr>
<td>2</td>
<td>44,198</td>
<td>20,048</td>
</tr>
<tr>
<td>3</td>
<td>40,512</td>
<td>18,376</td>
</tr>
<tr>
<td>4</td>
<td>37,393</td>
<td>16,961</td>
</tr>
<tr>
<td>5</td>
<td>34,720</td>
<td>15,749</td>
</tr>
<tr>
<td>6</td>
<td>32,404</td>
<td>14,688</td>
</tr>
<tr>
<td>7</td>
<td>30,374</td>
<td>13,779</td>
</tr>
</tbody>
</table>

### Boomhoist Drum Capacities

<table>
<thead>
<tr>
<th>Rope layer</th>
<th>Boomhoist Drum Capacity - 7/8&quot; (22 mm) wire rope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pitch Diameter</td>
</tr>
<tr>
<td></td>
<td>in.</td>
</tr>
<tr>
<td>1</td>
<td>15.88</td>
</tr>
<tr>
<td>2</td>
<td>17.63</td>
</tr>
<tr>
<td>3</td>
<td>19.38</td>
</tr>
<tr>
<td>4</td>
<td>21.13</td>
</tr>
<tr>
<td>5</td>
<td>22.88</td>
</tr>
<tr>
<td>6</td>
<td>24.63</td>
</tr>
<tr>
<td>7</td>
<td>26.38</td>
</tr>
</tbody>
</table>

### Rear Drum Capacities

<table>
<thead>
<tr>
<th>Rope layer</th>
<th>Rear Drum Capacity - 1&quot; (25 mm) wire rope</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pitch Diameter</td>
</tr>
<tr>
<td></td>
<td>in.</td>
</tr>
<tr>
<td>1</td>
<td>20</td>
</tr>
<tr>
<td>2</td>
<td>22</td>
</tr>
<tr>
<td>3</td>
<td>24</td>
</tr>
<tr>
<td>4</td>
<td>26</td>
</tr>
<tr>
<td>5</td>
<td>28</td>
</tr>
<tr>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>7</td>
<td>32</td>
</tr>
</tbody>
</table>

### Wire Rope: size, type and working strength

<table>
<thead>
<tr>
<th>Wire rope application</th>
<th>Size: diameter in.</th>
<th>Type</th>
<th>Max. permissible load lbs.</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boomhoist</td>
<td>7/8</td>
<td>LB</td>
<td>25,000</td>
<td>11340</td>
</tr>
<tr>
<td>Main load hoist</td>
<td>1</td>
<td>LB</td>
<td>32,500</td>
<td>14740</td>
</tr>
<tr>
<td>Jib load hoist (1-part)</td>
<td>1</td>
<td>RB</td>
<td>22,760</td>
<td>10320</td>
</tr>
<tr>
<td>Jib load hoist (2-parts)</td>
<td>1</td>
<td>RB</td>
<td>45,520</td>
<td>20640</td>
</tr>
<tr>
<td>Boom pendants (dual)</td>
<td>1</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Jib staylines</td>
<td>7/8</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Wire Rope**: types available
- Type "N" - 6 x 25 (6 x 19 class) filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.
- Type "LB" - 6 strand, compacted strand, Seale or Warrington Seale, preformed, independent wire rope center, right lay, regular lay.
- Type "RB" - Rotation resistant, 19 strand, Compacted strand, Extra-extra improved plow steel, preformed, right regular lay.
Upperstructure

**Boom Hoist System**
Mounted on sealed anti-friction bearings, the boom hoist is driven by a hydraulic motor through a gear reduction system. Boom lowering is performed by actuating or reversing the piston motor. Boom hoist speed from 0 to 70 degrees boom angle is 90 seconds.

**Boom Hoist Brake** – Spring applied, hydraulic release, which will apply the brake when the boom hoist lever is in the neutral position.

**Drum Locking Pawl** – Electrically actuated and prevents drum rotation in a boom lowering condition.

**Boom Hoist Limiting Device** – Restricts boom from being hoisted beyond recommended minimum radius.

**Hydraulic System**
**Main Pumps** – Two variable displacement piston pumps operating at 4,000 psi (281.24 kg/cm²) power main drum, auxiliary drum and boom hoist drum. Two fixed displacement gear pumps operating at 3,000 psi (211 kg/cm²) power swing function. One fixed displacement gear pump operating at 1,210 psi (85 kg/cm²) powers pilot control system, clutches, brakes and pump controls.

**Pump Control (“Fine Inching”) mode** – Special fine metering pump setting, selectable from the operator’s cab, allows very slow movements to the main hoist, auxiliary hoist and boom hoist for precision work.

**Hydraulic Reservoir** – 42 gallons (158 L) capacity equipped with sight level gauge. Diffusers built in for deaeration.

**Filtration** – One 10 micron, full flow, line filter in the control circuit. All oil is filtered prior to return to sump tank.

**Counterbalance Valves** – All hoist motors are equipped with counterbalance valves to provide load lowering and prevents accidental load drop when hydraulic power is suddenly reduced.

**Pump Drive**
All functions are hydraulically powered allowing positive, precise control with independent or simultaneous operation of all functions.

**Electrical**
Two batteries provide 24-volt operating and starting.

**Swing Alarm** – Audio/visual warning device signals when upper is swinging.

**Lights** – Two 70 watt sealed beam on the front of the upper superstructure.

**Fuel Tank**
One 76 gallon (288 liter) capacity tank.

**Counterweight**
**Standard** - Three-piece “ABC” counterweight consisting of 23,000 lbs. (10 433 kg) “A” counterweight, 19,330 lbs. (8 768 kg) “B” counterweight, and 21,110 lbs. (9 575 kg) “C” counterweight. Total weight - 64,440 lbs. (29 229 kg).

* See carrier section for carrier counterweights.

**Operators Cab**
Fully enclosed, one person. Galvanized steel construction lined with vinyl covered acoustical insulation.

<table>
<thead>
<tr>
<th>Engine Specifications</th>
<th>Isuzu 6SD1TQB-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Bore and stroke: inch (mm)</td>
<td>4.72 x 5.71</td>
</tr>
<tr>
<td>Piston displacement - cu. in. - (cm³)</td>
<td>120 x 145</td>
</tr>
<tr>
<td>High idle speed - rpm</td>
<td>2,400</td>
</tr>
<tr>
<td>Engine rpm at full load speed</td>
<td>2,200</td>
</tr>
<tr>
<td>Net engine hp at full load speed - (kw)</td>
<td>248</td>
</tr>
<tr>
<td>Peak torque - foot pounds - (joules)</td>
<td>186</td>
</tr>
<tr>
<td>Peak torque - rpm</td>
<td>873.3</td>
</tr>
<tr>
<td>Electrical system</td>
<td>1,500</td>
</tr>
<tr>
<td>Batteries</td>
<td>24-volt</td>
</tr>
</tbody>
</table>

**Cab Instrumentation** – The instrument panels houses:
- Service center that monitors oil filter, engine oil pressure, radiator water level, engine temperature, air cleaner, battery charge, battery fluid and swing brake.
- Switches for fine inching control, 2-speed electric windshield wiper/washer, heater, fan, working lights, ignition and drum locks.
- Bubble-type level
- Tachometer
- Voltmeter
- Fuel gauge
- Hydraulic oil temperature gauge
- Engine temperature gauge

**Lever Control System** – Remote controlled hydraulic servo for main and auxiliary drums. Mechanical linkage controls swing. Function speed is proportional to lever movement. Levers are adjustable for operator comfort.

**Rated Capacity Limiter** – PAT DS-350 audio-visual warning system with function limiters. Programmed with multiple charts it provides operator with:
- Main boom and jib angle
- Operating mode
- Load radius
- Boom tip height
- Anti-two block indicator
- Pre-warning light, audible alarm and overload light
- Allowed and actual load on hook
Carrier

■ **General**

11' 0" (3.35m) wide, 282' (7.16 m) wheelbase.

**Standard** – 8 x 4 x 4 drive.

**Frame** – 100,000 PSI (689.5 MPa) alloy steel, triple box construction.

■ **Outriggers**

Double-box, dual beams front and rear, pin connected to carrier frame.

Hydraulically operated beams and jack cylinders are individually controlled from each side of carrier. Single hydraulically operated front jack cylinder is individually controlled from front bumper of carrier. Each jack cylinder is equipped with integral holding valves.

**Rear outriggers** – Quick-attach, self-aligning system with hydraulic box pin puller and box mounting controls.

**Front outriggers** – Roll-out system with tilting left jack cylinder for frame clearance during box removal. Quick-attach, self-aligning system with hydraulic box pin puller and box mounting controls.

**Floats** – Four main stowable, quick-release, steel floats with 34' (.86 m) diameter base. A stowable, quick-release, aluminum float with 24' (.71 m) diameter base for front bumper jack.

**Jack reactions** – 252,000 lbs. (114 305 kg) force and 278 PSI (19.55 kg/cm²) ground bearing pressure maximum on main outriggers. 75,000 lbs. (34 019 kg) force and 167 PSI (11.74 kg/cm²) ground bearing pressure maximum on front bumper outrigger.

■ **Steering**

Sheppard full integral hydraulic power. Steering mounted on high side of frame to minimize exposure to hazards. High speed, high powersystem to maximize maneuverability both on the job and on the move.

■ **Axles**

**Front** – Tubular, bogie beam mounted, tandem axles, 105" (2.67m) track with single wheels.

**Rear** – Planetary, bogie beam mounted, tandem axles, 100.25" (2.56 m) track with dual wheels.

**Pusher** – Optional; 22,000 lb. (9 979 kg) rated tubular trunnion axle with dual 275/70R22.5 tubeless radial tires on disc wheels and lift-type air suspension system. Axle centerline located at 91' (2.71 m) ahead of drive axle tandem centerline. 91.75" (2.33 m) track.

■ **Suspension**

**Front** – Air-ride system, 4-bag walking beam style that deflates to solid mount for increased stability during job site travel.

**Rear** – Solid mount, bronze brushed equalizer beams with rubber bushed torque rods.

■ **Wheels**

**Front** – Hub mounted steel disc.

**Rear** – Integral with planetary hubs.

■ **Tires**

**Standard** – 14R24 3- star radial with on-off highway tread.

■ **Brakes**

**Service** – Full air brakes on all wheel ends. Dual circuit with modulated emergency brakes.

**Front** – 16.5" x 6" (.42 m x .15 m) S-Cam brakes.

**Rear** – 20.25" x 7" (.51 m x .17 m) S-Cam brakes.

**Parking/emergency** – One spring set, air released chamber per rear axle end. Emergency brakes apply automatically when air pressure drops below 60 PSI (413.7 kPa) in both systems.

■ **Electrical**

Four group 31 batteries provide 12-volt operating system and 12-volt starting with 1,600 cold cranking amps available.

**Lights** – Four dual sealed beam headlights; front, side and rear directional signals with 4-way hazard system; stop and tail lights; rear and side clearance lights; side turn indicators and lighted license plate bracket.

■ **Transmissions**

**Manual** – Eaton RTO-14908LL with 8 progressive highway gears and 2 “super low” gears for 10 forward and 3 reverse speeds.

**Auxiliary** –Spicer P-1241-C; used with manual transmission; midship mounted with 4-speed gearing; 2.31:1 first gear ratio.

**Automatic** – Optional; Eaton RTO-14109B ATE CEMAT (Converter Enhanced Electronically Managed Automatic Transmission) 9 speeds forward and 1 reverse. Ratios and speeds similar to manual transmission package.

**Auxiliary** – Optional: Spicer P-1241-D; used with automatic transmission; midship mounted with 4-speed gearing; 1:59:1 first gear ratio.

■ **Carrier Speeds**

<table>
<thead>
<tr>
<th>Gear</th>
<th>Ratio</th>
<th>4th (81) mph</th>
<th>km/h</th>
<th>3rd (1.00) mph</th>
<th>km/h</th>
<th>2nd (1.24) mph</th>
<th>km/h</th>
<th>1st (2.37) mph</th>
<th>km/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>High 8th</td>
<td>.74</td>
<td>58.5*</td>
<td>94.2*</td>
<td>47.4</td>
<td>76.3</td>
<td>38.2</td>
<td>61.5</td>
<td>20.0</td>
<td>32.2</td>
</tr>
<tr>
<td>7th</td>
<td>1.00</td>
<td>43.2</td>
<td>69.5</td>
<td>35.1</td>
<td>56.5</td>
<td>28.3</td>
<td>45.5</td>
<td>14.8</td>
<td>23.8</td>
</tr>
<tr>
<td>6th</td>
<td>1.36</td>
<td>31.8</td>
<td>51.2</td>
<td>25.8</td>
<td>41.5</td>
<td>20.8</td>
<td>33.5</td>
<td>10.9</td>
<td>17.5</td>
</tr>
<tr>
<td>5th</td>
<td>1.83</td>
<td>23.6</td>
<td>38.0</td>
<td>19.2</td>
<td>30.9</td>
<td>15.5</td>
<td>24.9</td>
<td>8.1</td>
<td>13.0</td>
</tr>
<tr>
<td>Low 4th</td>
<td>2.53</td>
<td>17.1</td>
<td>27.5</td>
<td>13.9</td>
<td>22.4</td>
<td>11.2</td>
<td>18.0</td>
<td>5.9</td>
<td>9.5</td>
</tr>
<tr>
<td>3rd</td>
<td>3.40</td>
<td>12.7</td>
<td>20.4</td>
<td>10.3</td>
<td>16.6</td>
<td>8.3</td>
<td>13.4</td>
<td>4.4</td>
<td>7.1</td>
</tr>
<tr>
<td>2nd</td>
<td>4.63</td>
<td>9.3</td>
<td>15.0</td>
<td>7.6</td>
<td>12.2</td>
<td>6.1</td>
<td>9.8</td>
<td>3.2</td>
<td>5.1</td>
</tr>
<tr>
<td>1st</td>
<td>6.24</td>
<td>6.9</td>
<td>11.1</td>
<td>5.6</td>
<td>9.0</td>
<td>4.5</td>
<td>7.2</td>
<td>2.4</td>
<td>3.9</td>
</tr>
<tr>
<td>L</td>
<td>9.42</td>
<td>4.6</td>
<td>7.4</td>
<td>3.7</td>
<td>6.0</td>
<td>3.0</td>
<td>4.8</td>
<td>1.6</td>
<td>2.6</td>
</tr>
<tr>
<td>Deep Reduction</td>
<td>LL</td>
<td>14.56</td>
<td>3.0</td>
<td>4.8</td>
<td>2.4</td>
<td>3.9</td>
<td>1.9</td>
<td>3.1</td>
<td>1.0</td>
</tr>
<tr>
<td>Hi Rev.</td>
<td>Rev.</td>
<td>2.89</td>
<td>15.0</td>
<td>24.1</td>
<td>12.1</td>
<td>19.5</td>
<td>9.8</td>
<td>15.8</td>
<td>5.1</td>
</tr>
<tr>
<td>Lo Rev.</td>
<td>Rev.</td>
<td>9.85</td>
<td>4.4</td>
<td>7.1</td>
<td>3.6</td>
<td>5.8</td>
<td>2.9</td>
<td>4.7</td>
<td>1.5</td>
</tr>
<tr>
<td>Deep Reduction</td>
<td>Rev.</td>
<td>15.22</td>
<td>2.8</td>
<td>4.5</td>
<td>2.3</td>
<td>3.7</td>
<td>1.9</td>
<td>3.1</td>
<td>1.0</td>
</tr>
<tr>
<td>Deep Reduction @ 600 rpm</td>
<td>LL</td>
<td>14.56</td>
<td>.85</td>
<td>1.4</td>
<td>.7</td>
<td>1.2</td>
<td>.55</td>
<td>.9</td>
<td>.3</td>
</tr>
<tr>
<td>Deep Reduction @ 600 rpm</td>
<td>Rev.</td>
<td>15.22</td>
<td>.8</td>
<td>1.3</td>
<td>.65</td>
<td>1.1</td>
<td>.5</td>
<td>.8</td>
<td>.3</td>
</tr>
</tbody>
</table>

* Radial tires and pick and carry axles and rims required for top speeds above 50 mph (80.45 km/h).
Carrier

**Fuel Tank**
- One 85 gallon (322 liter) capacity tank.

**Bumper Counterweight**
- **Standard** - Two-piece “AB” counterweight consisting of 13,500 lbs. (6 124 kg) “A” counterweight and 11,500 lbs. (5 216 kg) “B” counterweight. Total weight - 25,000 lbs. (11 340 kg).
- **Optional** - One-piece “auxiliary” counterweights. Total weight - 10,000 lbs. (4 536 kg). For use with luffing boom attachment only.

**Carrier Cab**
- Fully enclosed, one person. Galvanized steel construction lined with vinyl covered acoustical insulation. Equipped with:
  - Air ride seat with seat belt
  - 2-speed electric windshield wiper and washer
  - Tilt/telescoping steering column
  - Cruise control
  - Front and roof fresh air vents
  - Roll-down, left-side window
  - Sliding tinted rear and right-side window
  - Door and window locks
  - Accessory plug/lighter
  - Fire extinguisher
  - 19,800 BTU heater/defroster
  - Rubber floor mat
  - Horn
  - Dome light

**Cab Instrumentation** – Tilt-out (for service access) illuminated instrument panel includes:
- Speedometer with LCD readout for odometer, hour meter, two trip odometers, and a clock
- Tachometer
- Voltmeter
- Stop and check engine warning lights
- Fuel gauge
- Engine oil pressure gauge
- Engine temperature gauge
- Front and rear air pressure gauges with low air pressure warning buzzer/light
- Transmission temperature gauge with overheat warning buzzer/light (available only with automatic)
- Cruise controls
- Engine fan clutch switch
- Heater and defroster controls
- Light controls
- Park brake switch and applied light
- Engine diagnostic request switch

**Additional Equipment**
- **Standard:**
  - Towing shackles front and rear
  - Aluminum full deck fenders and ladders
  - Outrigger controls with engine throttle-up control
  - West coast type rear view mirrors with adjustable convex mirror
  - Trailer electrical and air connections
  - 2-way reading bubble levels
  - Back-up alarm
  - Mud flaps
  - Air dryer
  - Lug wrench
  - Tire inflation system
- **Optional:**
  - Spare tires and rims

<table>
<thead>
<tr>
<th>Engine Specifications</th>
<th>Detroit Diesel Series 60 - 12.7 liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Bore</td>
<td>5.12” (.13 m)</td>
</tr>
<tr>
<td>Stroke</td>
<td>6.30” (.16 m)</td>
</tr>
<tr>
<td>Piston displacement</td>
<td>778 cu. in. (12 751 cm³)</td>
</tr>
<tr>
<td>Max. brake h.p. @ rpm</td>
<td>430 (321 kw) @ 2,100</td>
</tr>
<tr>
<td>Governed load speed rpm</td>
<td>2,100</td>
</tr>
<tr>
<td>Peak torque @ rpm</td>
<td>1,450 ft. lbs. (1 966 J) @ 1,200</td>
</tr>
<tr>
<td>Alternator</td>
<td>130 amps</td>
</tr>
<tr>
<td>Air compressor</td>
<td>28 cfm (.85 m³/min)</td>
</tr>
</tbody>
</table>
### Axle Loads

**Base machine:** Standard revolving upperstructure equipped with Isuzu engine, hydraulic backstops, mast, bridge, ball, boomhoist rope with mast to rear of upper and 1,050 (320 m) of front drum rope; Standard carrier equipped with Detroit Diesel Series 60 engine, manual transmission, aluminum fenders, 14R24 front and rear radial tires, full fuel and front center hydraulic jack.

<table>
<thead>
<tr>
<th>Axle</th>
<th>Maximum Allowable Load @ 65 mph (105 km/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>43,660 lbs (19804 kg)</td>
</tr>
<tr>
<td>Rear</td>
<td>85,840 lbs (38936 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gross Vehicle Weight</th>
<th>Upper Facing Rear</th>
<th>Upper Facing Front</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Front Axle</td>
<td>Rear Axle</td>
</tr>
<tr>
<td>lbs</td>
<td>kg</td>
<td>lbs</td>
</tr>
<tr>
<td>93,167</td>
<td>42273</td>
<td>43,933</td>
</tr>
</tbody>
</table>

- **Add Rear Outrigger Box:** 13,160 lbs (5969 kg) | -3,620 lbs (-1642 kg) | 16,780 lbs (7611 kg) | -3,620 lbs (-1642 kg) | 16,780 lbs (7611 kg)
- **Add Front Outrigger Box:** 11,960 lbs (5425 kg) | 6,830 lbs (3098 kg) | 5,130 lbs (2327 kg) | 6,830 lbs (3098 kg) | 5,130 lbs (2327 kg)
- **Add Main Outrigger Floats to Storage Racks:** 660 lbs (299 kg) | 230 lbs (104 kg) | 430 lbs (195 kg) | 230 lbs (104 kg) | 430 lbs (195 kg)
- **Add Bumper Outrigger Float to Storage Rack:** 80 lbs (36 kg) | 60 lbs (27 kg) | 20 lbs (9 kg) | 60 lbs (27 kg) | 20 lbs (9 kg)
- **Replace Std Front Tires with 14.00 x 24 Bias Tires:** -130 lbs (-59 kg) | -130 lbs (-59 kg) | 0 lbs (0 kg) | -130 lbs (-59 kg) | 0 lbs (0 kg)
- **Add Pusher/Lift Axle (Consult factory for effects on axle groups):** 2,250 lbs (1021 kg)
- **Add "A" Bumper Counterweight:** 13,500 lbs (6123 kg) | 17,718 lbs (8037 kg) | -4,218 lbs (-1913 kg) | 17,718 lbs (8037 kg) | -4,218 lbs (-1913 kg)
- **Add "B" Bumper Counterweight:** 11,500 lbs (5216 kg) | 15,625 lbs (7087 kg) | -4,125 lbs (-1871 kg) | 15,625 lbs (7087 kg) | -4,125 lbs (-1871 kg)
- **Add "C" Bumper Counterweight:** 10,000 lbs (4536 kg) | 13,348 lbs (6054 kg) | -3,348 lbs (-1518 kg) | 13,348 lbs (6054 kg) | -3,348 lbs (-1518 kg)
- **Add Driver to Carrier Cab:** 220 lbs (100 kg) | 245 lbs (111 kg) | -25 lbs (-11 kg) | 245 lbs (111 kg) | -25 lbs (-11 kg)
- **Remove 1,050 ft of Wire Rope from Front Drum:** -1,940 lbs (-880 kg) | -668 lbs (-303 kg) | -1,272 lbs (-577 kg) | 63 lbs (29 kg) | 2,003 lbs (-909 kg)
- **Add 850 ft of Wire Rope to Rear Drum:** 1,700 lbs (771 kg) | 887 lbs (402 kg) | 813 lbs (369 kg) | -357 lbs (-162 kg) | 2,057 lbs (933 kg)
- **Remove Mast, Bridge, Ball & Boom Hoist Rope:** -7,614 lbs (-3454 kg) | -6,342 lbs (-2877 kg) | -1,272 lbs (-577 kg) | 3,966 lbs (1799 kg) | -11,580 lbs (-5253 kg)
- **Remove Boom Foot Pin Puller:** -320 lbs (-145 kg) | -5 lbs (-2 kg) | -315 lbs (-143 kg) | -95 lbs (-45 kg) | -225 lbs (-102 kg)
- **Flip Mast to Front of the Upper:** 0 lbs (0 kg) | 9,101 lbs (4128 kg) | 9,101 lbs (4128 kg) | 9,101 lbs (4128 kg) | 9,101 lbs (4128 kg)
- **Replace hydraulic backstops w/ rigid (mast over front of upper):** 0 lbs (0 kg) | 9,101 lbs (4128 kg) | 9,101 lbs (4128 kg) | 9,101 lbs (4128 kg) | 9,101 lbs (4128 kg)
- **Add "A" Upper Counterweight:** 23,000 lbs (10433 kg) | 18,639 lbs (8455 kg) | 4,361 lbs (1978 kg) | -11,462 lbs (-5199 kg) | 34,462 lbs (15632 kg)
- **Add "B" Upper Counterweight:** 19,330 lbs (8768 kg) | 16,798 lbs (7619 kg) | 2,532 lbs (1149 kg) | -10,766 lbs (-4833 kg) | 30,096 lbs (13651 kg)
- **Add "C" Upper Counterweight:** 21,110 lbs (9575 kg) | 17,422 lbs (7903 kg) | 3,688 lbs (1673 kg) | -10,835 lbs (-4915 kg) | 31,945 lbs (14490 kg)
- **Add 20 ft. Lattice Base Section:** 4,647 lbs (2108 kg) | -1,822 lbs (-826 kg) | 6,469 lbs (2934 kg)
- **Add 850 ft Type RB 1’ rope to third drum:** 2,350 lbs (1066 kg) | -761 lbs (-345 kg) | 3,111 lbs (1411 kg)
- **Add 1050 ft Type RB 1’ rope to third drum:** 2,280 lbs (1034 kg) | -598 lbs (-271 kg) | 2,443 lbs (1108 kg)
- **Add third drum deflector sheave assembly:** 600 lbs (272 kg) | -462 lbs (-210 kg) | 1,062 lbs (482 kg)
- **Add 10 ft Lattice Extension w/ Lifting Sheaves:** 2,574 lbs (1168 kg) | 2,765 lbs (1254 kg) | 5,339 lbs (2422 kg)
Link-Belt® HC-248H Lifting Crane Capacities — open throat boom

Boom — Tube; 80" (2.03 m) wide, 68" (1.73m) deep with open throat top section.

Jib — Tube; 32" (.81 m) wide, 24" (.61m) deep.

Counterweights — Refer to chart below.

Mounting — rubber tire mobile base:
Link-Belt; 8 x 4 drive, 282" (7.16m) wheelbase, 11" (3.35m) wide.

<table>
<thead>
<tr>
<th>Counterweights</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;A&quot; upper</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>Pounds</td>
</tr>
<tr>
<td>23,000</td>
</tr>
<tr>
<td>13,500</td>
</tr>
</tbody>
</table>

Open throat boom or boom + jib machine can lift off ground unassisted, without load.

<p>| Standard HC-248H must be equipped with the counterweights listed below when the indicated boom or boom + jib lengths are used. |</p>
<table>
<thead>
<tr>
<th>Boom or boom + jib lengths allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over rear</td>
</tr>
<tr>
<td>Feet</td>
</tr>
<tr>
<td>Boom</td>
</tr>
<tr>
<td>Cwt. ABC + 0</td>
</tr>
<tr>
<td>Maximum</td>
</tr>
<tr>
<td>Cwt. ABC + A</td>
</tr>
<tr>
<td>Maximum</td>
</tr>
<tr>
<td>Cwt. ABC + AB</td>
</tr>
<tr>
<td>Maximum</td>
</tr>
</tbody>
</table>

Machine travel with open throat boom + jib, with no load.

<p>| Standard HC-248H must be equipped with the counterweights listed below when the indicated boom or boom + jib lengths are used. |</p>
<table>
<thead>
<tr>
<th>Boom or boom + jib lengths allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>On tires</td>
</tr>
<tr>
<td>Jobsite moves at 1 mph (1.61 km/h) with boom or boom + jib in the air, and with upper facing rear or front.</td>
</tr>
<tr>
<td>Jobsite moves at 5 mph (8.05 km/h), with boom or boom + jib horizontal over rear only, and supporting with standard suspension.</td>
</tr>
<tr>
<td>Boom</td>
</tr>
<tr>
<td>Feet</td>
</tr>
<tr>
<td>Cwt. ABC + 0</td>
</tr>
<tr>
<td>Maximum</td>
</tr>
<tr>
<td>Cwt. ABC + A</td>
</tr>
<tr>
<td>Maximum</td>
</tr>
<tr>
<td>Cwt. ABC + AB</td>
</tr>
<tr>
<td>Maximum</td>
</tr>
</tbody>
</table>

1) Hook block may be carried only when attached to carrier.
2) Limited to 85% of available stability with machine standing level on firm supporting surface.
3) For air pressure in front and rear tires refer to operator's manual or tire inflation chart on machine.
4) Refer to operator's manual for permissible boom angles during travel.

Working Areas

1. These lines determine the limiting position of any load for operation within working areas indicated.

2. Do not swing over side until all outrigger beams are fully extended, until all tires are clear of the ground
   and machine is properly leveled on a firm supporting surface on 5 jacks.

Caution: This material is for reference only. Operator must refer to in-cab capacity plate to determine allowable machine lifting capacities and operating procedures.

Litho in U.S.A. 2/95

#6204 (supersedes #6190)
### HC-248H Lift Crane Capacities

**Boom - tube:**
80' (2.43 m) wide and 68' (2.07 m) deep with open throat top section. Hammock tip required for 35' (10.67 m) boom length.

**Mounting - Link-Belt carrier:**
6 x 4 drive, 282" (7.16 m) wheelbase 11° 0' (3.35 m) wide.

### Counterweights:
- Upper cwt: "ABC": 63,440 lbs. (28,776 kg)
- Bumper cwt. "A": 13,500 lbs. (6,216 kg)
- Bumper cwt. "AB": 25,000 lbs. (11,354 kg)

<table>
<thead>
<tr>
<th>Length</th>
<th>Radius</th>
<th>Angle</th>
<th>Boom Pt. Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>feet</td>
<td>degree</td>
<td>feet</td>
</tr>
<tr>
<td>35' (10.67 m)</td>
<td>10</td>
<td>3.05</td>
<td>82.0</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>4.57</td>
<td>73.5</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>6.10</td>
<td>63.8</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>9.14</td>
<td>40.1</td>
</tr>
<tr>
<td>50' (15.24 m)</td>
<td>12</td>
<td>3.66</td>
<td>80.0</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>4.57</td>
<td>76.4</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>6.10</td>
<td>70.5</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>7.62</td>
<td>64.3</td>
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<tr>
<td></td>
<td>30</td>
<td>9.14</td>
<td>57.7</td>
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<tr>
<td></td>
<td>40</td>
<td>12.19</td>
<td>42.7</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>15.24</td>
<td>20.9</td>
</tr>
<tr>
<td>60' (18.29 m)</td>
<td>13</td>
<td>3.96</td>
<td>80.7</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>4.57</td>
<td>76.7</td>
</tr>
<tr>
<td></td>
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<td>6.10</td>
<td>73.8</td>
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<td>7.62</td>
<td>68.8</td>
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<td>30</td>
<td>9.14</td>
<td>63.6</td>
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<td></td>
<td>40</td>
<td>12.19</td>
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<td></td>
<td>50</td>
<td>15.24</td>
<td>38.9</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>18.29</td>
<td>19.0</td>
</tr>
<tr>
<td>70' (21.34 m)</td>
<td>14</td>
<td>4.27</td>
<td>81.2</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>4.57</td>
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1. Measured vertically from center of boom head sheave to ground.
2. Requires hammerhead tip.
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<th>Length</th>
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**Counterweights:**
- Upper ctwt. "ABC": 63,440 lbs. (28 776 kg)
- Bumper ctwt. "A": 13,500 lbs. (6 124 kg)
- Bumper ctwt. "AB": 25,000 lbs. (11 340 kg)

Refer to notes on page 10.
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**Counterweights:**
- Upper ctwt. "ABC": 63,440 lbs. (28 776 kg)
- Bumper ctwt. "A": 13,500 lbs. (6 124 kg)
- Bumper ctwt. "AB": 25,000 lbs. (11 340 kg)
### HC-248H Lift Crane Capacities

#### Boom - tube:
80" (2.03 m) wide & 68" (1.73 m) deep with open throat top section.

#### Mounting - Link-Belt carrier:
8 x 4 drive, 282" (7.16 m) wheelbase 11' 0" (3.35 m) wide.

#### Counterweights:
- Upper ctwt. "ABC": 63,440 lbs. (28776 kg)
- Bumper ctwt. "A": 13,500 lbs. (6124 kg)
- Bumper ctwt. "AB": 25,000 lbs. (11340 kg)

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#### Capacities

- On outriggers w/ctwt. "ABC"
- On tires w/ctwt. "ABC"

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Refer to notes on page 10.
### HC-248H Lift Crane Capacities

**Boom - tube:** 80" (2.03 m) wide and 66" (1.73 m) deep with open throat top section.

<table>
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### Mounting - Link-Belt carrier:
8 x 4 drive, 282" (7.16 m) wheelbase 11' 0" (3.35 m) wide.

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### Counterweights:
- **Upper ctwl. "ABC":** 63,440 lbs. (28.776 kg)
- **Bumper ctwl. "A":** 13,500 lbs. (6.124 kg)
- **Bumper ctwl. "AB":** 25,000 lbs. (11.340 kg)

*Refer to notes on page 10.*
## HC-248H Lift Crane Capacities

**Boom - tube:**
80° (2.03 m) wide and 68° (1.73 m) deep with open throat top section.

**Mounting - Link-Belt carrier:**
8 x 4 drive, 282° (7.16 m) wheelbase 11°0' (3.35 m) wide.

**Counterweights:**
Upper cwt. "ABC": 63,440 lbs. (28 776 kg)
Bumper cwt. "A": 13,500 lbs. (6 124 kg)
Bumper cwt. "AB": 25,000 lbs. (11 340 kg)

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### Counterweights

Refer to notes on page 10
### HC-248H Lift Crane Capacities

**Boom - tube:**
- 80" (2.03 m) wide and 68" (1.73 m) deep with open throat top section.

**Mounting - Link-Belt carrier:**
- 8 x 4 drive, 282" (7.16 m) wheelbase 11° 0' (3.35 m) wide.

**Counterweights:**
- Upper cwt. "ABC": 63,440 lbs. (28.77 kg)
- Bumper cwt. "A": 13,500 lbs. (6.12 kg)
- Bumper cwt. "AB": 25,000 lbs. (11.34 kg)

Refer to notes on page 10

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*Refer to notes on page 10
## HC-248H Lift Crane Capacities

**Boon - tube:**
80° (2.03 m) wide and 68° (1.73 m) deep with open throat top section.

**Mounting - Link-Belt carrier:**
3 x 4 drive, 282° (7.16 m) wheelbase 11' 0
(3.35 m) wide.

**Counterweights:**
Upper ctw. "ABC": 63,440 lbs. (28 777 kg)
Bumper ctw. "A": 13,500 lbs. (6 124 kg)
Bumper ctw. "AB": 25,000 lbs. (11 340 kg)

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| 260° (79.25 m) | 180    | 54.86 | 45.0            | 194.8                                       | 56.33                                   | 6.100                                       | 2,767                                       |
|              |        |       |                 |                                              |                                         | 8,300                                       | 3,765                                       |
|              | 190    | 57.91 | 41.7            | 174.2                                       | 53.10                                   | 5,100                                       | 2,313                                       |
|              |        |       |                 |                                              |                                         | 7,266                                       | 3,266                                       |
|              | 200    | 60.96 | 38.1            | 162.2                                       | 49.44                                   | 4,200                                       | 1,905                                       |
|              |        |       |                 |                                              |                                         | 6,200                                       | 2,812                                       |
|              | 210    | 64.01 | 34.2            | 148.5                                       | 45.26                                   | 3,400                                       | 1,542                                       |
|              |        |       |                 |                                              |                                         | 5,300                                       | 2,404                                       |
|              | 220    | 67.06 | 30.9            | 132.6                                       | 40.42                                   | 2,700                                       | 1,235                                       |
|              |        |       |                 |                                              |                                         | 4,500                                       | 2,641                                       |
|              | 230    | 70.10 | 24.9            | 113.3                                       | 34.53                                   | 2,000                                       | 907                                         |
|              |        |       |                 |                                              |                                         | 2,800                                       | 1,724                                       |
|              | 240    | 73.15 | 18.8            | 88.3                                        | 26.91                                   | ---                                         | ---                                         |
|              |        |       |                 |                                              |                                         | 3,100                                       | 1,406                                       |
|              | 250    | 76.20 | 9.3             | 48.3                                        | 14.72                                   | ---                                         | ---                                         |
|              |        |       |                 |                                              |                                         | 2,500                                       | 1,134                                       |

| 270° (82.30 m) | 180    | 54.86 | 45.0            | 194.8                                       | 56.33                                   | 6.100                                       | 2,767                                       |
|              |        |       |                 |                                              |                                         | 8,300                                       | 3,765                                       |
|              | 190    | 57.91 | 41.7            | 174.2                                       | 53.10                                   | 5,100                                       | 2,313                                       |
|              |        |       |                 |                                              |                                         | 7,266                                       | 3,266                                       |
|              | 200    | 60.96 | 38.1            | 162.2                                       | 49.44                                   | 4,200                                       | 1,905                                       |
|              |        |       |                 |                                              |                                         | 6,200                                       | 2,812                                       |
|              | 210    | 64.01 | 34.2            | 148.5                                       | 45.26                                   | 3,400                                       | 1,542                                       |
|              |        |       |                 |                                              |                                         | 5,300                                       | 2,404                                       |
|              | 220    | 67.06 | 30.9            | 132.6                                       | 40.42                                   | 2,700                                       | 1,235                                       |
|              |        |       |                 |                                              |                                         | 4,500                                       | 2,641                                       |
|              | 230    | 70.10 | 24.9            | 113.3                                       | 34.53                                   | 2,000                                       | 907                                         |
|              |        |       |                 |                                              |                                         | 2,800                                       | 1,724                                       |
|              | 240    | 73.15 | 18.8            | 88.3                                        | 26.91                                   | ---                                         | ---                                         |
|              |        |       |                 |                                              |                                         | 3,100                                       | 1,406                                       |
|              | 250    | 76.20 | 9.3             | 48.3                                        | 14.72                                   | ---                                         | ---                                         |
|              |        |       |                 |                                              |                                         | 2,500                                       | 1,134                                       |

**N/A: Not Available**

Refer to notes on page 10
HC-248H Lift Crane Capacities

**Boom - tube:**
80' (2.43 m) wide and 68' (2.07 m) deep with open throat top section.

**Mounting - Link-Belt carrier:**
8 x 4 drive, 282" (7.17 m) wheelbase 11' 0"
(3.35 m) wide.

**Counterweights:**
Upper cwt. "ABC": 63,440 lbs. (28,776 kg)
Bumper cwt. "A": 13,500 lbs. (6,124 kg)
Bumper cwt. "AB": 25,000 lbs. (11,340 kg)

**Lifting Crane Notes:**
1. Capacities shown are in pounds (kilograms) and are not more than 65% of the tipping loads on outriggers or 75% of the tipping loads on tires with machine standing level on firm supporting surface.
2. Indicates these capacities are based on factors other than those which would cause a tipping condition.
3. For recommended reeving, parts of line, wire rope type and wire rope inspection, see plate no. C4P0013.
4. The least stable rated condition is over the side.
5. For machines equipped with load weighing devices, deduct 200 lbs. (91 kg) for the weight of the equipment.
6. Boom midpoint suspension required for boom lengths exceeding 240' (73.15 m).
7. These capacities apply only to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.
<table>
<thead>
<tr>
<th>Boom Length</th>
<th>30' Jib</th>
<th>40' Jib</th>
<th>50' Jib</th>
<th>60' Jib</th>
<th>70' Jib</th>
<th>80' Jib</th>
<th>90' Jib</th>
<th>100' Jib</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'</td>
<td>40,000*</td>
<td>36,000*</td>
<td>32,000*</td>
<td>26,900*</td>
<td>21,700*</td>
<td>17,900*</td>
<td>13,700*</td>
<td>9,800*</td>
</tr>
<tr>
<td>10'</td>
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<td>32,000*</td>
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<td>17,900*</td>
<td>13,700*</td>
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<tr>
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<td>21,700*</td>
<td>17,900*</td>
<td>13,700*</td>
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<tr>
<td>20'</td>
<td>40,000*</td>
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<tr>
<td>25'</td>
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<td>32,000*</td>
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<td>21,700*</td>
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<td>30'</td>
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<td>21,700*</td>
<td>17,900*</td>
<td>13,700*</td>
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<tr>
<td>35'</td>
<td>40,000*</td>
<td>36,000*</td>
<td>32,000*</td>
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<td>21,700*</td>
<td>17,900*</td>
<td>13,700*</td>
<td>9,800*</td>
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<tr>
<td>40'</td>
<td>40,000*</td>
<td>36,000*</td>
<td>32,000*</td>
<td>26,900*</td>
<td>21,700*</td>
<td>17,900*</td>
<td>13,700*</td>
<td>9,800*</td>
</tr>
</tbody>
</table>

**Counterweights:**
- Upper cwt. "ABC": 63,440 lbs. (28,776 kg)
- Bumper cwt. "A": 13,500 lbs. (6,124 kg)
- Bumper cwt. "AB": 25,000 lbs. (11,340 kg)
<table>
<thead>
<tr>
<th>Boom Length</th>
<th>Lifting Capacities - Tubular Jib - Open Throat Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'</td>
<td>15'</td>
</tr>
<tr>
<td>100' Boom</td>
<td>100' Boom</td>
</tr>
<tr>
<td>25</td>
<td>40,000 lbs</td>
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<tr>
<td>95</td>
<td>40,000 lbs</td>
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<tr>
<td>100</td>
<td>40,000 lbs</td>
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<tr>
<td>Boom Length</td>
<td>Lifting Capacities - Tubular Jib - Open Throat Boom</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>5' jib</td>
<td>15' jib</td>
</tr>
<tr>
<td>30</td>
<td>40,000*</td>
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<tr>
<td>35</td>
<td>40,000*</td>
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<tr>
<td>40</td>
<td>40,000*</td>
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<tr>
<td>45</td>
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<tr>
<td>90</td>
<td>40,000*</td>
</tr>
<tr>
<td>95</td>
<td>40,000*</td>
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</tbody>
</table>
## HC-248H Tubular Jib Capacities - Open Throat Boom

<table>
<thead>
<tr>
<th>Boom Length</th>
<th>100' Jib</th>
<th>90' Jib</th>
<th>70' Jib</th>
<th>50' Jib</th>
<th>35' Jib</th>
<th>25' Jib</th>
<th>15' Jib</th>
<th>10' Jib</th>
</tr>
</thead>
<tbody>
<tr>
<td>100' Boom</td>
<td>4,300</td>
<td>4,000</td>
<td>3,900</td>
<td>3,800</td>
<td>3,700</td>
<td>3,600</td>
<td>3,500</td>
<td>3,400</td>
</tr>
<tr>
<td>200' Boom</td>
<td>4,200</td>
<td>4,100</td>
<td>4,000</td>
<td>3,900</td>
<td>3,800</td>
<td>3,700</td>
<td>3,600</td>
<td>3,500</td>
</tr>
</tbody>
</table>

Refer to notes on page 6.
| Boom Length | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' | 30' |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' | 15' |
| 50'         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 40'         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 30'         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20'         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10'         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
HC-248H Working Range

Jib Capacity Notes:
1. Capacities are shown in pounds and are the maximum allowable. Capacities are based on the machine standing level on firm supporting surface under ideal jib conditions. Capacities are not more than 85% of the tipping loads unless marked with an asterisk.

2. Capacities are for 360° swing on five outrigger jacks.

3. Capacities are limited to a Link-Belt 68" x 80" (1.73 x 2.03 m) open throat tubular boom, live mast and a Link-Belt 26-ton (18 t), 24" x 32" (.61 x .81 m) cross section jib with a 17' 10" (5.44 m) high jib strut properly assembled.

4. Do not swing over side until all four outrigger beams are fully extended, all five jacks are extended, until all tires are clear of the ground and machine is properly leveled on a firm supporting surface.

5. Two parts of 1" (25.4 mm) diameter type "N" or "RB" wire rope is required for maximum lift.

6. Capacities are for 30° (9.14 m), 40° (12.19 m), 50° (15.24 m), 60° (18.29 m), 70° (21.34 m), 80° (24.38 m), 90° (27.43 m), and 100° (30.48 m) jib lengths only.

7. A jib cannot be used on the open throat boom that is longer than 240° (73.15 m).

8. The least stable condition is over the side.

9. A deduction must be made from the jib capacities for weight of hook block, hook, sling, grapple, load weighing devices, etc.

10. When using main hook, while jib is attached, reduce boom capacities by the following values:
   a. 30° (9.14 m) jib - 2,600 lbs. (1,179 kg)
   b. 40° (12.19 m) jib - 3,300 lbs. (1,496 kg)
   c. 50° (15.24 m) jib - 4,000 lbs. (1,814 kg)
   d. 60° (18.29 m) jib - 4,800 lbs. (2,181 kg)
   e. 70° (21.34 m) jib - 5,600 lbs. (2,540 kg)
   f. 80° (24.38 m) jib - 6,400 lbs. (2,887 kg)
   g. 90° (27.43 m) jib - 7,200 lbs. (3,270 kg)
   h. 100° (30.48 m) jib - 8,000 lbs. (3,629 kg)

11. Refer to all notes on applicable lifting crane capacity chart in addition to these notes.

12. Capacities apply only to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

Link-Belt Construction Equipment Company
A unit of Sumitomo Construction Machinery Co., Ltd.
We are constantly improving our products and therefore reserve the right to change designs and specifications.
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**Link-Belt® HC-248H Luffing Crane Capacities**

**Luffing Boom** — **Tubular**: 80" (2.03 m) wide, 68" (1.73 m) deep.

**Luffing Jib** — **Tubular**: 60" (1.52 m) wide, 50" (1.27 m) deep.

**Fixed Jib** — **Tubular**: 32" (0.81 m) wide, 24" (0.61 m) deep.

**Mounting** — **Rubber tire mobile base**:
Link-Belt 8x4 drive, 282" (7.16 m) wheelbase, 11’ 0” (3.35 m) wide.

**Counterweights** — Refer to chart below.

<table>
<thead>
<tr>
<th>Counterweights</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;ABC&quot; Upper</td>
</tr>
<tr>
<td>&quot;AB&quot; Upper</td>
</tr>
<tr>
<td>&quot;Auxiliary&quot; Bumper</td>
</tr>
<tr>
<td>lbs.</td>
</tr>
<tr>
<td>kgs.</td>
</tr>
<tr>
<td>63,440</td>
</tr>
<tr>
<td>11,300</td>
</tr>
</tbody>
</table>

① "Auxiliary" bumper counterweight used only with 170 - 180 ft. (51.82 - 54.86 m) luffing booms.

**Luffing boom and luffing jib + fixed jib machine can lift off ground unassisted, without load.**

<table>
<thead>
<tr>
<th>Standard HC-248H must be equipped with the counterweights listed below when the indicated luffing boom and luffing jib + fixed jib lengths are used.</th>
<th>Luffing boom and luffing jib + fixed jib lengths allowed</th>
<th>On Outriggers</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Remove fixed jib hook ball prior to traveling. Heavy duty pick and carry axles required.</td>
<td>② For air pressure in front and rear tires refer to operator's manual or tire inflation chart on machine.</td>
<td>③ Do not remove 10,000 lb. (4,536 kg) &quot;auxiliary&quot; bumper counterweight for 170 - 180 ft. (51.82 - 54.86 m) luffing boom travel.</td>
</tr>
</tbody>
</table>

**On Outriggers**

| Over Rear (folded or flat) |
|---|---|---|
| Feet | meters | Feet | meters | Feet | meters |
| Luffing Boom | Luffing Jib | Fixed Jib |
| Cwt. "ABC" + "AB" | Minimum | Maximum |
| 80 | 24.38 | 80 | 24.38 | 30 | 9.14 |
| 160 | 48.77 | 160 | 48.77 | 30 | 9.14 |
| Cwt. "ABC" + "AB" + Auxiliary | Minimum | Maximum |
| 170 | 51.82 | 100 | 30.48 | 30 | 9.14 |
| 180 | 54.86 | 160 | 48.77 | 30 | 9.14 |

**Machine travel** ② with luffing boom and luffing jib + fixed jib, with no load.

<table>
<thead>
<tr>
<th>Standard HC-248H must be equipped with the counterweights listed below when the indicated luffing boom and luffing jib + fixed jib lengths are used.</th>
<th>Luffing boom and luffing jib + fixed jib lengths allowed</th>
<th>On Tires ③</th>
</tr>
</thead>
<tbody>
<tr>
<td>① Remove fixed jib hook ball prior to traveling. Heavy duty pick and carry axles required.</td>
<td>② For air pressure in front and rear tires refer to operator's manual or tire inflation chart on machine.</td>
<td>③ Do not remove 10,000 lb. (4,536 kg) &quot;auxiliary&quot; bumper counterweight for 170 - 180 ft. (51.82 - 54.86 m) luffing boom travel.</td>
</tr>
</tbody>
</table>

**On Tires ③**

| Jobsites moves at 1 mph (1.61 km/h) with luffing boom and luffing jib + fixed jib. ④ |
|---|---|---|
| Luffing Boom | Luffing Jib + Fixed Jib |
| Feet | meters | Feet | meters |
| Cwt. "ABC" + "AB" | Minimum | Maximum |
| 80 | 24.38 | 80 + 30 | 24.38 + 9.14 |
| 160 | 48.77 | 160 + 30 | 48.77 + 9.14 |
| Cwt. "ABC" + "AB" + Auxiliary ④ | Minimum | Maximum |
| 170 | 51.82 | 100 + 30 | 30.48 + 9.14 |
| 180 | 54.86 | 160 + 30 | 48.77 + 9.14 |

**Working Areas**

1. These lines determine the limiting position of any load for operation within working areas indicated.

2. Do not swing over side until all outrigger beams are fully extended, until all tires are clear of the ground and machine is properly leveled on a firm supporting surface.

**Caution:** This material is for reference only. Operator must refer to in-cab crane rating manual to determine allowable machine lifting capacities and operating procedures.
<table>
<thead>
<tr>
<th>Luffing Crane Capacities</th>
<th>360 Degrees</th>
<th>Over The Rear</th>
<th>360 Degrees</th>
<th>Over The Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Luffing Boom Length</strong></td>
<td><strong>Radial In Feet</strong></td>
<td><strong>Luffing Boom Angle</strong></td>
<td><strong>Radial In Feet</strong></td>
<td><strong>Luffing Boom Angle</strong></td>
</tr>
<tr>
<td><strong>80’</strong></td>
<td><strong>87°</strong></td>
<td><strong>85°</strong></td>
<td><strong>80°</strong></td>
<td><strong>75°</strong></td>
</tr>
<tr>
<td>38</td>
<td>85.0°*</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>40</td>
<td>82.4°*</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
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<td>75.4°*</td>
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<tr>
<td>60</td>
<td>67.0°</td>
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<tr>
<td>70</td>
<td>56.0°</td>
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<td><strong>100’</strong></td>
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<td><strong>80°</strong></td>
<td><strong>75°</strong></td>
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<td>38</td>
<td>69.9°</td>
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<td><strong>120’</strong></td>
<td><strong>87°</strong></td>
<td><strong>85°</strong></td>
<td><strong>80°</strong></td>
<td><strong>75°</strong></td>
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<tr>
<td>38</td>
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<td><strong>160’</strong></td>
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<tr>
<td>38</td>
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<td>15.0°</td>
<td>-</td>
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<tr>
<td><strong>160’ + 30’</strong></td>
<td><strong>87°</strong></td>
<td><strong>85°</strong></td>
<td><strong>80°</strong></td>
<td><strong>75°</strong></td>
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<tr>
<td>200</td>
<td>6.3°</td>
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<tr>
<td>250</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

**NOTE:** Indicates these capacities are based on factors other than those which would cause a tipping condition. Capacities shown in thousands of pounds.
<table>
<thead>
<tr>
<th>Luffing Boom Length</th>
<th>Luffing Boom in Feet</th>
<th>Radii in Feet</th>
<th>360 Degrees Luffing Boom Angle</th>
<th>Radii in Feet</th>
<th>Over The Rear Luffing Boom Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>80'</td>
<td>40 74.3°</td>
<td>-</td>
<td>40 74.3°</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>60 58.9°</td>
<td>52.8°</td>
<td>60 58.9°</td>
<td>52.8°</td>
<td></td>
</tr>
<tr>
<td></td>
<td>80 37.0°</td>
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</tr>
<tr>
<td></td>
<td>100 - 26.9°</td>
<td>25.3°</td>
<td>100 - 26.9°</td>
<td>-</td>
<td></td>
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<tr>
<td></td>
<td>120 - 18.5°</td>
<td>17.4°</td>
<td>120 - 18.5°</td>
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<td></td>
<td>140 - -</td>
<td>-</td>
<td>140 - -</td>
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**NOTE:** *Indicates these capacities are based on factors other than those which would cause a tipping condition. Capacities shown in thousands of pounds.*
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NOTE: *Indicates these capacities are based on factors other than those which would cause a tipping condition. Capacities shown in thousands of pounds.
## HC-248H Midfall Capacities -- 360 Degrees

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<th>Luffing Jib Length (feet)</th>
<th>Radii In Feet</th>
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<th>Radii In Feet</th>
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**NOTE:** *Indicates these capacities are based on factors other than those which would cause a tipping condition. Capacities shown in thousands of pounds.
HC-248H Luffing Crane Working Ranges
(See Crane Operating Manual for all available working ranges)

70° Luffing Boom Angle

87° Luffing Boom Angle

Luffing Attachment Capacity Notes:

1. Capacities shown are in pounds and are not more than 85% of the tipping loads. Outrigger beams must be fully extended and all (5) outrigger jacks must be extended so tires clear the ground with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device, etc. See Operator’s Manual for all limitations when raising or lowering attachment.

2. The crane capacities marked with an asterisk are based on structural strength. The crane capacities in the non-asterisked areas are based on stability ratings.

3. For recommended reeving, parts of line, wire rope type and wire rope inspection, see Operator’s Manual and Parts Manual.

4. Capacities are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account.

5. The 30 ft. (9.14 m) luffing boom live mast must be used for all capacities shown in these charts.

6. The least stable rated condition is over the side.

7. The attachment must be erected and lowered directly over the rear of the carrier.

8. Do not operate at radii and boom lengths where charts lists no capacities. Do not use longer booms or jibs than those listed in the Crane Rating Manual. Any of the above can cause a tipping condition, or boom and jib failure.

9. Refer to the Crane Rating Manual for wind speed restriction chart for safe operation, travel and storage of the attachment.

10. Refer to the Crane Rating Manual for capacity reductions for auxiliary load handling equipment.

11. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.