HTC-1170 Specifications

Boom
- Standard - 309° 1299° (11.56 m)
- 36.23 m section power groin
- Includes rear, two power sections and power groin fourth section. Load moment indicator with function limits.
- Boom head - Standard are five 146° (0.26 m)
diameter head sheaves. Bunds up to 10 parts of 12μ 17μ wide wire rope.
- Optional auxiliary lifting sheave - single 169° (0.42 m)
diameter head sheave.
- Boom boom - Boom booms from 3° to 80°.

Fly
- Swivel 200° (20.67 m) one-place lattice type.
- Fly can be off 2°, 15° or 30°.
- Fly - Optional: 35 Volvo D11 (29.67 m) lattice type with telescopic test section. Can be off 2°, 15° or 30°.
- Jib - Optional: 75° (22.86 m) lattice jib. Can be off 2°, 15°, 30° or 45°.

Cab and Controls
- Environmental cab isolated from sound and vibration by rubber mount.

Counterweight
- Placed to upperstructure frame. Counterweight removal system available.

Hydraulic System
- Main pumps - 1095 kNm (1211.4 kgm) 1450 kNm (1777.8 kgm). Hydraulic oil cooler available for high ambient temperature service.
- Reserve - Link Belt 177 gallon (654.87 liters).
- Capacity - 1130 (0.125 liters) 500 (0.425 liters) per minute.
- Optional: Franklin 22U 0001B filters.
- Filter - On aluminum filter located inside the hydraulic reservoir.

Load Hoist System
- Load 2M main winch with two-speed motor and automatic brake. Upper power down mode of operation. Bidirectional gear type hydraulic motor.
- Optional: Model 2M auxiliary winch.

Suspension
- Front - Spring suspension with torque rods. Rear - Solid mount 54° (1.37 m) beame.

Wheels
- Cast, six-spoke.
- Tires - Front - 440/60R22.5 radial.
- Rear - 1320R22.5 radial.

Brakes
- Front - Drum type. Rear - 16.5 (0.42 m) x 15 (0.15 m) 760 sq in.
- Rear - 16.5 (0.42 m) x 15 (0.15 m) 3200 sq in.

Steering
- Push-pull steering, rack-and-pinion design. Provides a smooth, reliable turning radius of 800 (2.54 m).

Clutch
- 0.36 m diameter, spring loaded, double plate dry disc. 16.5 (0.42 m) x 15 (0.15 m) 3200 sq in.
- Carrier
- Link Belt 54 x 6 drive, 11° (3.35 m)

Frame
- All welded high-strength alloy steel plate construction with box type design and integral 100,000 lb. (226 kNm) 17° (0.45 m) radius, and aluminum in 300 GPa (43.5 m) radius draw.

Engine
- Cummins NTC-380, NTC-400, NTC-400, NTC-600, NTC-600, NTC-600, NTC-600.

Outriggers
- Power hydraulic, double box, single beam outriggers, front and rear. External outrigger extends 20° (0.55 m) centerline to centerline. Equipped with rotate, aluminum 30° (0.77 m) diameter tubes.

Rear outrigger - A front center vertical jack mounted under tender with 24° (0.61 m) diameter aluminum rod.

Axles
- Front - tandem, 16.5 (0.42 m) x 15 (0.15 m) track.
- Rear - 16.5 (0.42 m) x 15 (0.15 m) track, 16.5 (0.42 m) x 15 (0.15 m) track.

Travel Speeds and Gradeability

<table>
<thead>
<tr>
<th>Engine Type</th>
<th>Maximum Speed</th>
<th>Gradeability at Peak Engine Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-71T</td>
<td>25.6 mph</td>
<td>25.7%</td>
</tr>
<tr>
<td>Cummins NTC-380</td>
<td>30.5 mph</td>
<td>33.7%</td>
</tr>
<tr>
<td>Cummins NTC-400</td>
<td>30.5 mph</td>
<td>33.7%</td>
</tr>
<tr>
<td>Cummins NTC-600</td>
<td>25.6 mph</td>
<td>25.7%</td>
</tr>
</tbody>
</table>

*low gear, high range
Patented boom design

Embosed sidewall stiffeners with no-weld corners

**Boom Concept** The arrangement of high strength angle chords (corners) with high formability steel sidewalls (embossments) places the most steel at corners where maximum stress is concentrated. The result: maximum strength with minimum weight.

**Angle Chords** 100,000 psi high strength steel angle chords are precision machined for boom sidewall overlap. This design allows all interior and exterior boom welds to be offset or staggered for maximum structural integrity.

**Time Proven Boom Design** Over a decade and thousands of hydraulic crane booms later, Link-Belt's exclusive, patented design is unchanged—state-of-the-art—before its time, providing superior capacities, tip heights and reliability.

It is true testimony to Link-Belt's engineering design achievement that this design concept is being imitated today for optimum performance.

**No Welds in High Stress Corners**

Embosed Sidewall Stiffeners Increases sidewall stiffness.

Sidewall Design Concept Not only do the embossments increase sidewall stiffness, but because of their placement they naturally transfer stresses uniformly to the high strength angle chords (corners)—a concept derived from Link-Belt lattice boom technology.

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The HTC-1170 puts you in complete control

**Operator Control Center** Designed for maximum operator comfort and control with these features:
- Six-way adjustable fabric seat.
- Boom telescopic overrides allow operating flexibility of powered sections.
- Arm rest mounted dual hydraulic controllers.
- Electronic drum rotation indicators.
- Single foot pedal control for simultaneous extension or retraction of power boom sections.

**Additional Cab Features Include:**
- Large front window for excellent visibility.
- Tinted glass.
- Sliding right side and rear windows and swing-up top window provide excellent ventilation.
- Load Moment Indicator aids the operator in safe and efficient operation by continuously displaying machine configuration, boom angle, boom length, radius, height, allowed load, actual load, and percent of allowable load. Each audio and visual alarm warns the operator of an overload or two-block condition.

**Lift-up Arm Rest** Left arm rest lifts up out of the way providing outstanding operator ease in entering or exiting cab. For safety, all control functions become inactive when the arm rest is in raised position.

**Operator Cab Dash** Dash panel provides easy control access for the operator. Conveniently located, this panel houses switches for wiper, fan, lights, horn, function lockout, freewheel, ignition and throttle lock. Mechanical controls are provided for 360° swing lock and travel swing lock. Toggle switches are rubber encased for protection against dust and moisture. Comprehensive and easy to read gauges monitor air pressure, hydraulic oil temperature, battery charge, fuel level, water temperature and engine oil pressure.

**Outrigger Controls** Outrigger controls are conveniently located in the left arm of operator's control center. Outrigger controls are also provided on each side of carrier at ground level.