HTC-1170 Specifications

Boom Standard — 38'0"-120'6" *(11.58 m-36.73 m)* 4-section power pinned boom includes base, two power sections and power pinned fourth section. Load moment indicator with function kickout.

Boom head — Standard are five 14¼" *(0.36 m)* root diameter head sheaves to handle up to 10 parts of ¾" *(19 mm)* wire rope.

Optional auxiliary lifting sheave — single 16½" *(0.42 m)* root diameter sheave.

Boom elevation — Boom elevation from -3° to 80°.

Fly Stowable 35'0" *(10.67 m)* one-piece lattice type. Can be offset 2°, 15° or 30°.

Fly *Optional* — 35'0"-61'0" *(10.67 m-18.59 m)* lattice fly with telescopic box section. Can be offset 2°, 15° or 30°.

Jib *Optional* — 75'0" *(22.86 m)* lattice jib. Can be offset 5°, 17.5°, 30° or 45°.

Cab and Controls
Environmental cab; isolated from sound and vibration by rubber mounts.

All tinted and tempered safety glass windows. Slide-by-door opens to 3'0" *(0.91 m)* width. Six-way adjustable operator's seat. Joy stick controllers for swing, winches and boom hoist. Foot controls for swing brake and boom telescope.

Cab instrumentation — Dash mounted gauges include air pressure gauge, voltmeter, hydraulic oil temperature gauge, fuel gauge, water temperature gauge, oil pressure gauge and tachometer. Dash mounted switches for ignition, throttle lock, lights and windshield wiper. Outrigger controls mounted under left armrest.

Swing Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 2.45 r.p.m.

Swing brake — Foot actuated 360° manually applied, spring released disc brake mounted on speed reducer.

Travel lock — Two position house lock for travel or pick and carry modes.

Swing lock — 360° position pin-type controlled from the operator's cab.

Counterweight Pinned to upperstructure frame. Counterweight removal system available.

Hydraulic System Main pumps are (2) two-section gear-type pumps. Powered by carrier engine with manual pump disconnect which is operated from carrier cab. Maximum system pressure 3,150 p.s.i. *(221.4 kg/cm²)*. Hydraulic oil cooler.

Reservoir — Link-Belt, 173 gallon *(654.87 Liters)* capacity. Diffusers for deareation.

Filtration — One six-micron filter located inside the hydraulic reservoir.

Control valves — Separate control valves for each crane function. All valves pilot operated.

Load Hoist System
Model 2M main winch with two-speed motor and automatic brake; power up/power down mode of operation. Bi-directional gear type hydraulic motor.

Optional — **Model 2M** auxiliary winch.

Optional — **Model 3M** winch with power up/power down, two-speed motor and exclusive controlled true gravity freefall. Available on main or both winches.

Line pulls and speeds — Maximum available line pull is 15,870 lbs. *(7 199 kg)* and maximum line speed is 548 f.p.m. *(167.03 m/min)* on 17" *(0.43 m)* root diameter drums.

Carrier Link-Belt 8 × 4 drive, 11'0" *(3.35 m)* wide, 233" *(5.92 m)* wheelbase.

Frame All welded high strength alloy steel plate construction with box-type design and integral 100,000 p.s.i. *(689.5 mPa)* steel outrigger boxes.

Engine GM 6-71TA, 300 H.P. @ 2,100 r.p.m.

Optional — Cummins NTC-300, 300 H.P. @ 2,100 r.p.m.

Optional — Cummins NTC-400, 400 H.P. @ 2,100 r.p.m.

Fuel Tank 100 gal. *(378.5 Liters)*

Outriggers Power hydraulic, double box, single beam outriggers, front and rear. Beams extend to 23'6" *(7.16 m)* centerline-to-centerline. Equipped with stowable, aluminum 30½" *(.77 m)* diameter floats.

Bumper outrigger — A front center vertical jack mounted under bumper with 24" *(0.61 m)* diameter aluminum float.

Axles
Front — tandem; 109" *(2.77 m)* track.

Rear — tandem; 100.65" *(2.56 m)* track, 6.14 to 1.0 ratio with interaxle differential lockout.

Suspension
Front — Spring suspension with torque rods.

Rear — Solid mount 54" *(1.37 m)* bogie beam.

Wheels Cast, six-spoke.

Tires Front — 445/65R22.5 radials.

Rear — 13R20 radials.

Optional — 14R20 radials, front and rear.

Brakes
Front — S-cam type, 16.5" × 6" *(.42 m × .15 m)* shoe diameter, 760 sq. in. *(4 904 cm²)*.

Rear — S-cam-type, 16.5" × 7" *(0.42 m × .18 m)* shoe diameter, 968 sq. in. *(6 245 cm²)*.

Steering Sheppard Steering, rack-and-pinion design. Provides a wall-to-wall turning radius of 50'0" *(15.24 m)*.

Clutch 14" *(0.36 m)* diameter, spring loaded, double plate dry disc. 15.5" *(.39 m)* diameter double plate with Cummins NTC-400.

Transmissions Fuller Roadranger; 9 speeds forward, 2 reverse.

Optional — Allison HT750DR automatic (available on NTC-400 engine only).

Electrical System Two 12-volt batteries; 2,160 cold cranking amps available, 80 amp alternator.

Lights Four dual-beam sealed headlights, front and rear directional signals, stop and tail-lights, four way emergency flashers, backup lights, front, rear and side clearance lights with integral reflectors and license plate light.

Carrier Cab One man, acoustically treated, rear view mirrors, heater, forced air defroster, horn, windshield wiper/washer, trailboss seat with seat belt, door/window locks, fire extinguisher and tilt/telescoping steering column.

Cab instrumentation — Illuminated instrument panel with speedometer, odometer, tachometer, voltmeter, hourmeter, front and rear air pressure gauges, low air pressure light and warning buzzer, automotive-type ignition (common with upper), engine oil pressure gauge, water temperature gauge, fuel gauge, turn signal indicator, high beam light switch, adjustable defroster vents, and resettable circuit breakers.

Travel Speeds and Gradeability

Engine	Maximum Speed	*Gradeability at peak engine torque
GM 6-71TA	45.5 mph *(73.21 km/h)*	26.1%
Cummins NTC-300	45.5 mph *(73.21 km/h)*	33.4%
Cummins NTC-400	45.5 mph *(73.21 km/h)*	41.8% 28.9% w/auto.

*low gear, high range

Link-Belt
CONSTRUCTION EQUIPMENT

Link-Belt Construction Equipment Company Lexington, Kentucky
A unit of Sumitomo Construction Machinery Co., Ltd.

#4100

Link-Belt
CONSTRUCTION EQUIPMENT

HTC-1170

Hydraulic Truck Crane

- 70 Ton *(63.55 metric ton)* Capacity
- 98,202 lbs. *(44 544 kg)* Working Weight
- 187 ft. *(57.00 m)* Maximum On-Board Tip Height
- 199 ft. *(60.66 m)* Maximum Available Tip Height

Courtesy of Crane Market

Patented boom design

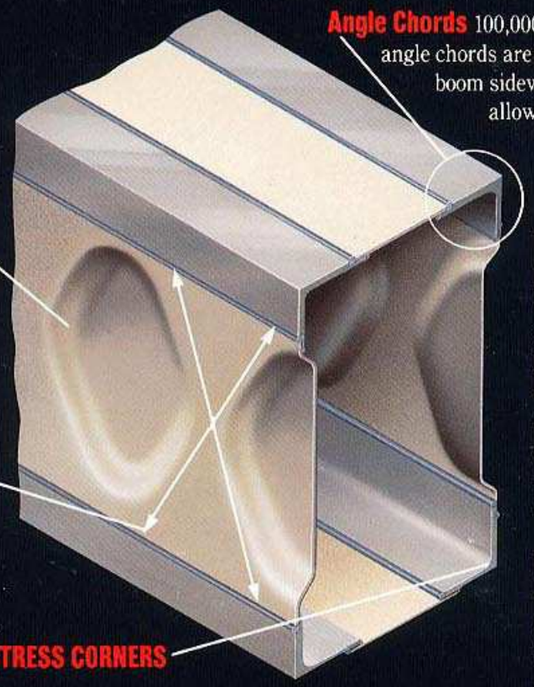
EXCLUSIVE

Patented Design
THE BOSS
THE ORIGINAL EMBOSSED BOOM STIFFENER

Embossed 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.



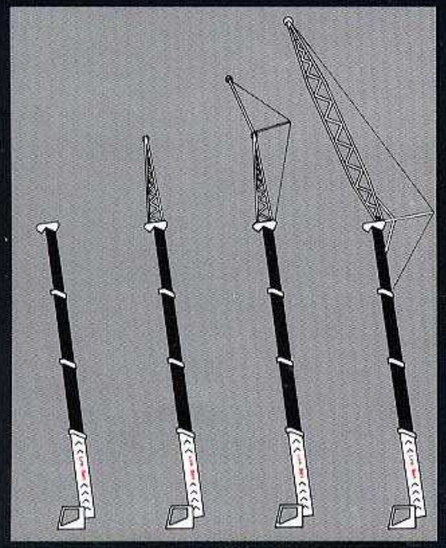
Angle Chords 100,000 psi high strength steel angle chords are precision machined for boom sidewall overlap. This design allows all interior and exterior boom welds to be offset or staggered for maximum structural integrity.

Embossed 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.

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.



Stowable Attachments

Swing-away lattice flys are easily stored for transportability or can be removed to meet specific road laws.

Attachment Flexibility

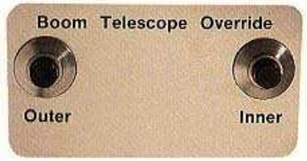
Your choice:

- 120'6" *(36.73 m)* four section boom with power pinned tip section.
- 35' *(10.67 m)* stowable one piece lattice fly—offsets to 2°, 15° or 30°.
- 35' *(10.67 m)* - 61' *(18.59 m)* stowable lattice fly with telescopic box section—offsets to 2°, 15° or 30°.
- 75' *(22.86 m)* tubular lattice jib—offsets to 5°, 17.5°, 30° or 45°.

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 telescope 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.

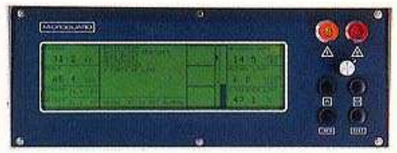


Additional Cab Features Include:

- Large front window for excellent visibility.
- Tinted glass.
- Sliding right side and rear windows and swing-up top window provide excellent ventilation.

EXCLUSIVE

- 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. Both audio and visual alarms warn 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, freefall, 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 rest of operator's control center. Outrigger controls are also provided on each side of carrier at ground level.