

GENERAL INFORMATION ONLY

8665

Hydraulic Truck Crane

- 60-ton (60.0 capacity)
- 71' (52.43 m) on-board tip height
- Designed Area Lifting Capacities (CALC) System
- Optional ULTRA-CAB™ of LFC-2000 construction process
- Electronic Telescope Control (ETC) System
- 7' wide 24" (7.32 m) outrigger stance
- Split-type 3 or 4-piece counterweight for quick set/putdown



Link-Belt leads the way....

The New HTC-8665 hydraulic truck crane features unmatched innovations such as the Electronic Telescope Control (ETC) System, Confined Area Lifting Capacity System (CALC™), revolutionary fibrous composite cabs—the ULTRA-CAB™, piston motor winches, and integral rated capacity limiter (RCL).

An Office With A View....

ULTRA-CAB™

A major step forward in the construction equipment industry, the new environ-

mental ULTRA-CAB found on the HTC-8665 model is molded from an LFC•2000 construction process featuring laminated fibrous composite material. Laminated fibrous composites are a hybrid class of composites with lamination techniques. The layers of fiber-reinforced material are built up with the fiber directions of each layer typically oriented in different directions to add strength and stiffness.

This fibrous composite technology offers superior advantages over steel in sound reduction, with sound levels one-half as loud as conventional cabs. This fibrous composite material, while eliminating corrosion, also adds dimensional stability and allows modern styling techniques to be utilized including molded radii and ribs. Designed with the operator in mind, the HTC-8665 cab features:

Fabric Seat – Six-way adjustable seat with height-adjustable armrests.

Hydraulic Control Levers – Armrest mounted, responsive (joystick type).

Lift-Up Armrest – Left armrest lifts up out of the way providing outstanding operator ease in entering or exiting the cab. For safety, all control functions become inactive when the armrest is in raised position.

Back-lighted Gauges – corner post mounted.

Overhead Console – with switches for outrigger controls, lights, fan, and swing park brake.

Bubble Level – standard sight level mounted on side console.

Single Foot Pedal Control – for simultaneous extension or retraction of power boom sections.

Ducted Air – through automotive style directional vents.



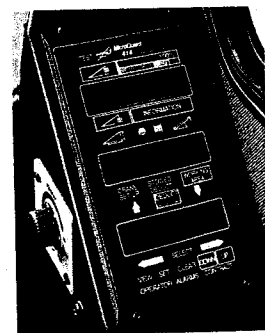
Comprehensive Instrumentation – Corner post mounted gauges monitor hydraulic oil temperature, air pressure, fuel level, water temperature, oil pressure and voltage.

Additional Cab Features:

- Automotive style windshield and large side window provide operator with 25% more glass area.
- Dashless design for superior visibility.
- Wide opening door allows the largest of operators to enter the cab with ease.
- Sliding right side and rear windows and swing-up roof window provide excellent ventilation.
- Large sweep electric windshield wiper.

Integral Rated Capacity Limiter

This "LMI" system aids the operator in safe and efficient operation by continuously monitoring boom length, boom angle, head height, radius of load, machine configuration, allowed load, and percent of allowed load. The Microguard 414 system features improved access time, improved radio frequency shielding, a new built-in color display, total system override capabilities to provide for rigging requirements and an expanded memory which provides capacity information on all possible lift configurations.



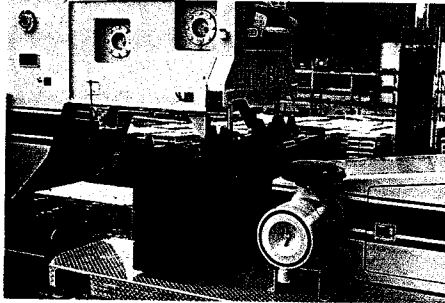
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The new 65-ton (60t) capacity HTC-8665 with 172' (52.43 m) of on-board tip height features superior capacities, attachment flexibility and an innovative slab-type counterweight design for improved gross vehicle weight distribution and transportability.

Job-to-Job Transportability

The HTC-8665 offers superior roadability complete with 172 ft. (52.43 m) of on-board tip height. Transportability is enhanced by the unique 9,000 lb. (4 082 kg) 3-piece counterweight slab-type design. For maximum roadability, the standard counterweight hydraulic removal system positions the desired number of

counterweight slabs on the deck of the carrier for most efficient axle load distribution or can lower them directly onto a trailer for transport. A 12,000 lb. (5 443 kg) 4-piece design is also available.

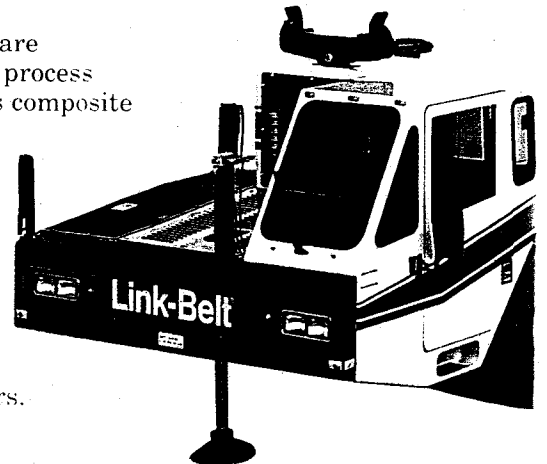


Wide Stance Carrier An 8' 6" (2.59 m) wide based carrier with 228" (5.79 m) wheelbase provides 'big feet' for a sturdy, stable lifting base. This Link-Belt 8 x 4 carrier also features reinforced 12 gauge flat deck sheet metal fenders, large engine access doors for serviceability, newly designed quick-disconnect polyamide (nylon) pontoons, and a self-storing fifth outrigger pontoon. Aluminum "diamond plate" fenders are also available.

Power Train Utilization of a standard Cummins engine and Eaton transmission translates to maximum parts availability as these components are common to many drive trains used in the construction industry. The Cummins 325 horsepower (242 kW) engine is coupled to an Eaton 9-speed forward, 2-speed reverse transmission.

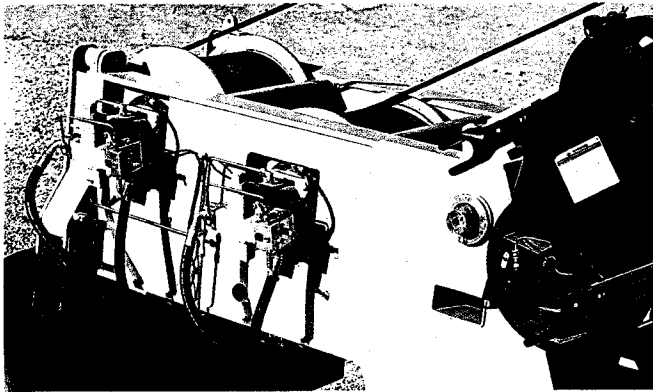


Carrier Cab The carrier cab and engine cowling are manufactured of the same LFC•2000 construction process as the upper operator's cab. This laminated fibrous composite material combined with additional acoustical treatments assure the operator of maximum highway comfort. And the rack and pinion steering puts the operator in complete control. Additional comfort and safety features include dash mounted comprehensive instrumentation with lighted gauges, sliding side and rear windows and roll up/down door window for excellent ventilation, fully adjustable air ride fabric seat, suspended pedals, and rear view mirrors.



Standard for hydraulic truck cranes

Superior Hydraulics

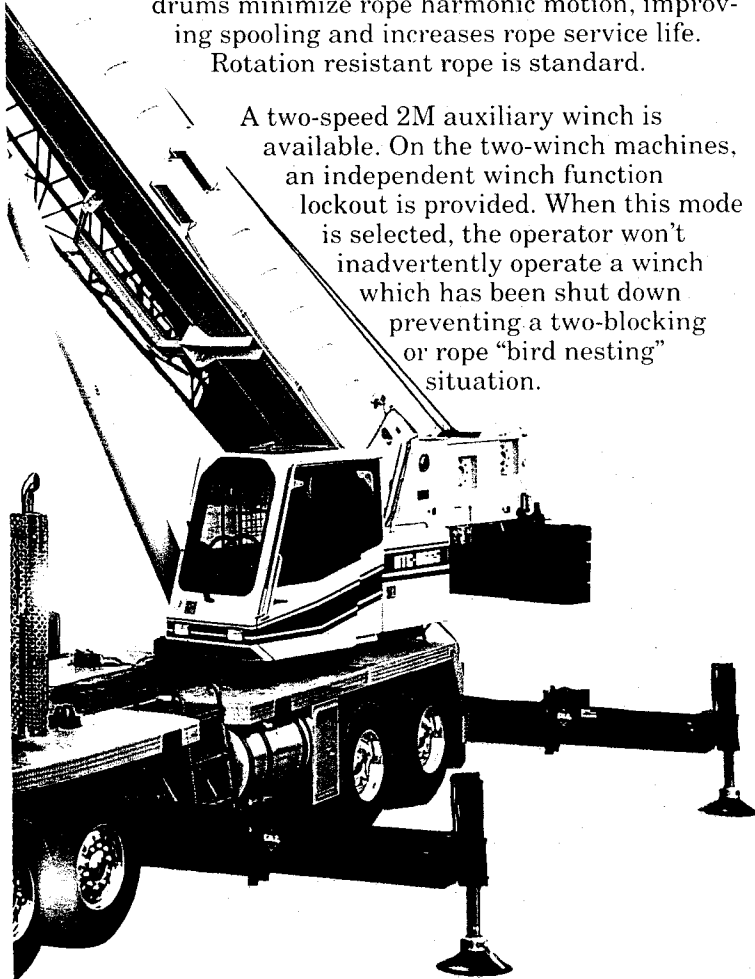


Piston Motor Hydraulic Hoist System

Delivers superior hoisting to the 65 ton (60 metric ton) hydraulic truck crane class The standard load hoist system consists of a 2M main winch with two-speed motor and automatic brake for power up/down mode of operation. A bi-directional piston-type hydraulic motor, driven through a planetary reduction unit provides precise, smooth load control with minimal rpm.

Asynchronous, parallel double cross-over grooved drums minimize rope harmonic motion, improving spooling and increases rope service life. Rotation resistant rope is standard.

A two-speed 2M auxiliary winch is available. On the two-winch machines, an independent winch function lockout is provided. When this mode is selected, the operator won't inadvertently operate a winch which has been shut down preventing a two-blocking or rope "bird nesting" situation.

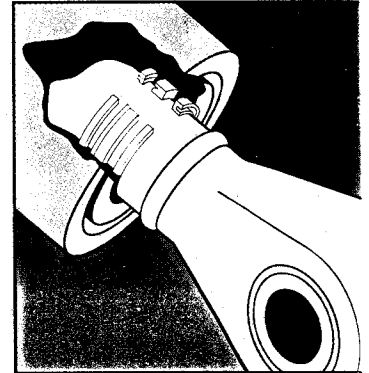


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Multi-Function Control For greater productivity and control, the five pump-section hydraulic circuit allows smooth, simultaneous function of winch, boomhoist, swing, and drums.

State-Of-The-Art Oil Seal Technology

The HTC-8665 features improved seals on boomhoist, boom extend/retract, and outrigger jack cylinders. This new 'redundant' oil seal technology incorporates 3 rod sealing surfaces versus one or two found on competitive models. This new seal design is highly resistant to side loading and pressure spikes for outstanding sealing performance and when incorporated with full o-ring face seal technology used throughout the machine, leads to an environmentally dry system.



Simplified Routings All Link-Belt hydraulic cranes incorporate well thought out routings for easy access. Fittings and connections are staggered where necessary for quick and easy servicing.

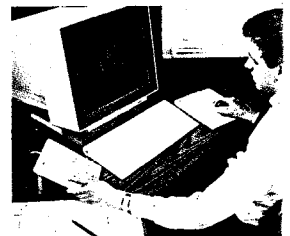


Serviceability Wide opening engine doors provide excellent engine accessibility. And standard quick disconnects installed at various locations in the hydraulic system allow the hydraulic pressure to be quickly and easily checked with Link-Belt's exclusive diagnostic kit.

Computer-Aided Design

Link-Belt has pursued a course of 'continuous innovation' to set new standards for hydraulic crane design... design originals that improve reliability and performance.

Advanced, high speed computer-aided, state-of-the-art designs are measured by their reliable performance through extensive testing and re-testing before Link-Belt endorses a new idea, assuring the customer of real user value...maximum on-the-job performance



Industry First Innovations....

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Electronic Telescope Control (ETC) System

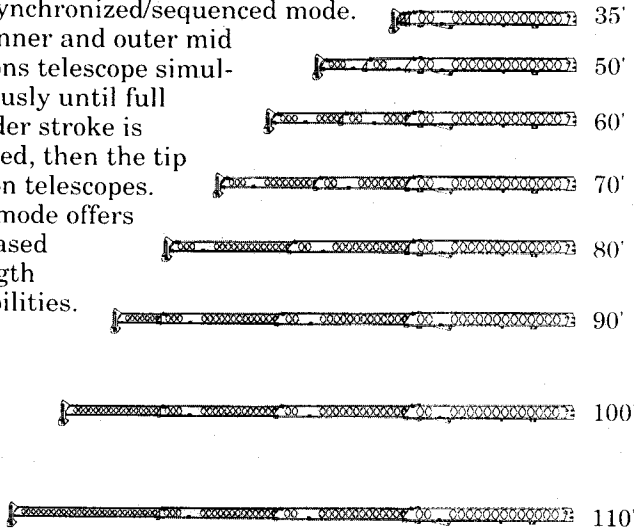
Link-Belt's new ETC System is a simple, yet highly flexible full power extension system that utilizes one single stage and one double acting cylinder. The system features single foot pedal controlled boom extension, no hose loops, wire ropes or sheaves and has considerably less valving and componentry that lead to improved performance and low maintenance.

Boom telescoping is controlled by an Electronic Telescope Control System which features a microprocessor controlled two mode extension. Standard boom extension, "**Mode A**,"

is a synchronized/sequenced mode.

The inner and outer mid sections telescope simultaneously until full cylinder stroke is reached, then the tip section telescopes.

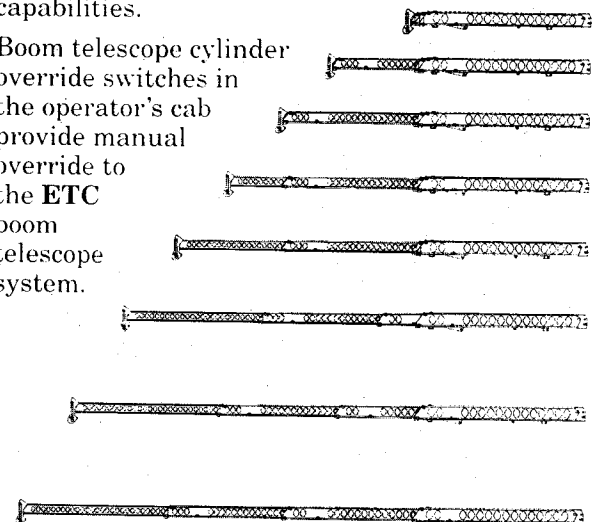
This mode offers increased strength capabilities.



Synchronized/Sequenced Mode "A"

"**Mode B**" is a sequenced mode of telescoping. The outer mid section telescopes fully, then the tip section telescopes fully and then the inner mid section. This mode offers increased stability capabilities.

Boom telescope cylinder override switches in the operator's cab provide manual override to the ETC boom telescope system.

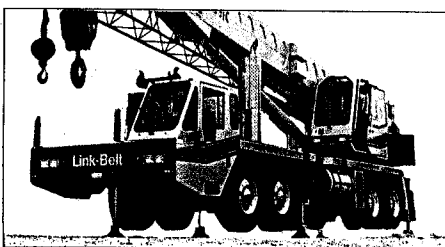
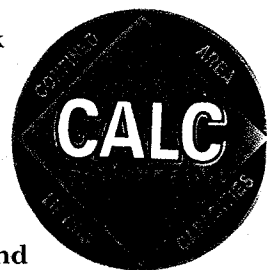


Sequenced Mode "B"

Confined Area Lifting Capacities



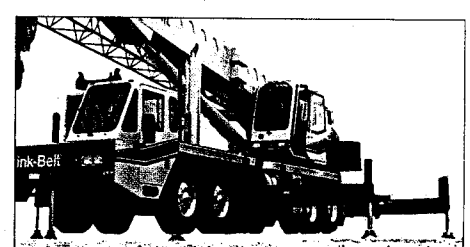
The new HTC-8665 is specifically designed to allow contractors to work in confined work areas where full outrigger extension is not possible. The CALC system provides the operator with three outrigger positions (full extension, intermediate, and retracted). Outriggers may be extended to an intermediate position where working area is limited or, in extremely tight quarters, lifts can be made with outriggers fully retracted. In the fully retracted outrigger mode, lift capacities are significantly improved over the 'on tires' configuration. When the **extend position pins**, located on top the outrigger boxes, are applied, the operator can set the crane in the intermediate or fully retracted outrigger mode without having to leave the cab. A thorough, easy-to-read crane rating manual gives the operator comprehensive capacities covering the three outrigger positions and all attachments plus 'on tires' capacities.



Retracted Outriggers
7' 9" (2.36 m) Spread



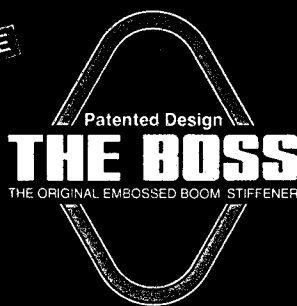
Intermediate Outriggers
14' 7" (4.45 m) Spread



Fully Extended Outriggers
24' 0" (7.32 m) Spread

Patented boom design

EXCLUSIVE



Embossed sidewall stiffeners with no-weld corners

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

Embossed Sidewall Stiffeners Increases sidewall stiffness.

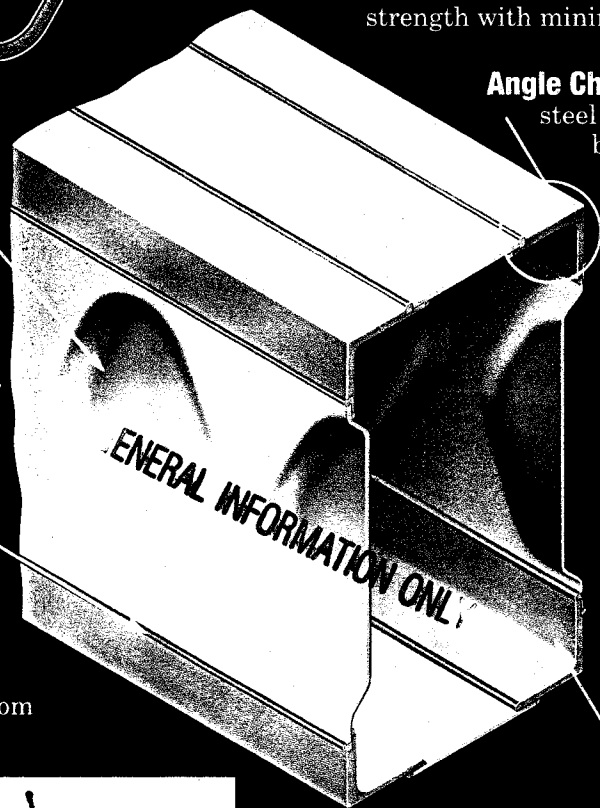
Sidewall Design Concept Not only do the embossments increase sidewall stiffness, but because of their placement they naturally transfer stresses uniformly to the high strength angle chords (corners)—a concept derived from Link-Belt lattice boom technology.

Boom Wear Shoes Boom wear shoes are replaceable without boom disassembly.

Angle Chords 100,000 psi (689.5 MPa) 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

Stowable Attachments

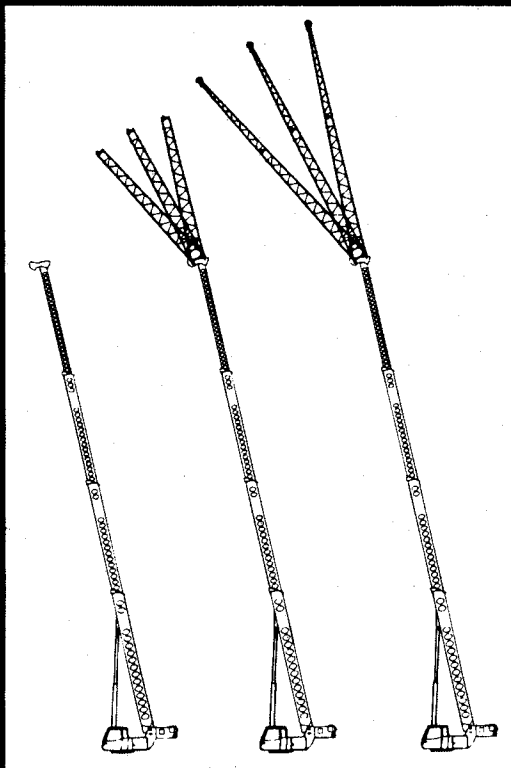
Swing-away lattice flies are easily stored for transportability or can be removed to meet specific road laws.



Attachment Flexibility

Maximum Tip Height;

- 35' 6" – 110' 0" (10.82 – 33.53 m) four section full power boom.
- Stowable, 34' (10.36 m) offsettable (1°, 15°, or 30°) lattice fly.
- Stowable, 34' – 56' (10.36 – 17.07 m) offsettable (1°, 15°, or 30° offset) 2-stage lattice fly.



Link-Belt Construction Equipment Company Lexington, Kentucky

A unit of Sumitomo Construction Machinery Co., Ltd.

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