

RTC-8018 18-ton (16t)

RTC-8020 20-ton (18t)

RTC-8022 22-ton (20t)

Hydraulic Rough Terrain Cranes

- 121' (36.88 m) on-board tip height
- Confined Area Lifting Capacities (CALC™) System
- Piston winches
- Rated load indicator
- Three attachment options

THE RTC MODELS FEATURE THE NEW
CONFINED AREA LIFTING CAPACITIES (CALC™) SYSTEM



The new RTC-8018/20/22....

Featuring unmatched innovations such as the Confined Area Lifting Capacities (CALC™) System, piston motor winches and Integral Rated Capacity Limiter (RCL).

Operator Control Center Designed for maximum operator comfort and control with these features:

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

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

Hydraulic Control Levers – Armrest mounted dual hydraulic controllers.

Electronic Drum Rotation Indicators

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

Foot Controls – For swing brake, travel brake and engine throttle.

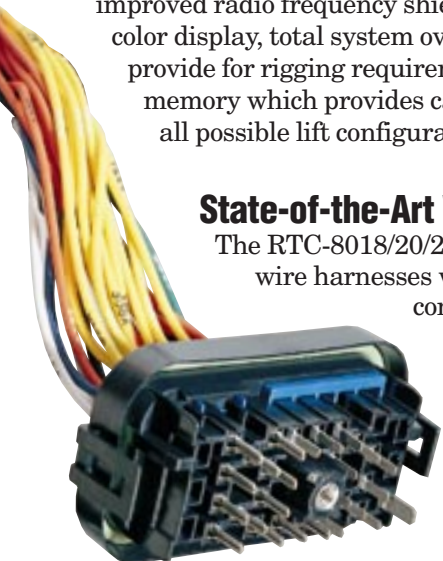
Additional Cab Features Include:

- Sound suppressed environmental cab.
- Large front window for excellent visibility.
- Tinted glass.
- Sliding right side and rear windows and swing-up top window provide excellent ventilation.
- 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 expanded memory which provides capacity information on all possible lift configurations.



State-of-the-Art Wire Harness

The RTC-8018/20/22 have automotive-type wire harnesses with sealed relays and connectors throughout for outstanding long term reliability. In addition, all wires have a flame retardant, polyethylene insulation, resulting in a higher heat resistant wiring system.



Operator Cab Dash Dash panel provides easy control access for the operator. Conveniently located, this panel houses

switches for wiper, fan, lights, function lockout, steering mode select, ignition, throttle lock, and outrigger functions. 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 hydraulic oil temperature, battery charge, fuel level, water temperature, engine oil pressure and transmission temperature. And a standard sight level bubble aids in machine setup.



Outstanding controllability, comfort

The RTC-8018 18-ton (16t) capacity, RTC-8020 20-ton (18t) capacity and the RTC-8022 22-ton (20t) capacity with 121' (36.88 m) of on-board tip height are specifically designed to give you the best equipment value in the 20-ton (18t) RT class.



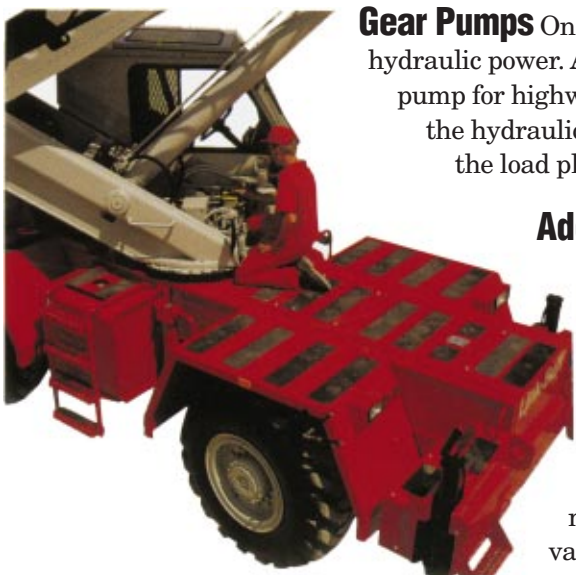
Jobsite Maneuverability Maneuvering the RTC Series machines on the job site is made easier with independent controls for steering. Steering modes include independent front and rear steer, four wheel coordinated steer and “crab” steering for tight job site situations. And, the direction of steering remains the same whether the upper is over the front or rear making it easier for the operator to move the machine without having to relearn his steering habits.



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.

Power Train Utilizing a standard Cummins engine and Clark transmission translates to maximum parts availability as these components are common to many drive trains used in the construction industry. The Cummins 105 horsepower (78 kW) engine is coupled to a Clark 6-speed forward, 6-speed reverse powershift transmission. This electric over hydraulic transmission is far superior to air shift which have the potential to freeze up in cold weather conditions.



Gear Pumps One double gear and one single gear type pump provide hydraulic power. A pump disconnect is available on the double gear pump for highway travel and cold weather starting. Disconnecting the hydraulic pump saves wear on the hydraulic system and reduces the load placed on the engine when travelling long distances.

Added Value Features Large grab handles and steps strategically located around the new RTC Series provide superior accessibility to carrier deck areas and engine for routine maintenance and service. Safety strips adhered on top of the deck and fenders provide a non-slip surface for maintenance personnel. A standard oversize storage compartment with key locking hatch is ideal for tools, slings, etc. And a recessed carrier mounted, cab controlled tow winch is available to provide a variety of job site options to the operator.



ort, and big machine performance

Superior Hydraulics

Multi-Function Control For greater productivity and control, the three pump hydraulic circuit allows simultaneous function of boom/hoist, winch and swing... setting the standard in the 20-ton (18t) class.

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.

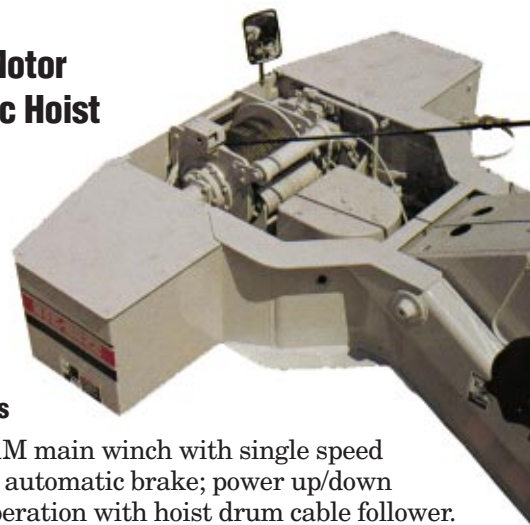
Serviceability Standard quick disconnects installed at various locations in the hydraulic system allows the hydraulic pressure to be quickly and easily checked with Link-Belt's exclusive diagnostic gauge kit.



Diagnostic Kit

Piston Motor Hydraulic Hoist System

Delivers superior hoisting to the 20-ton (18t) rough terrain class



Model 1M main winch with single speed motor and automatic brake; power up/down mode of operation with hoist drum cable follower. Bi-directional piston-type hydraulic motor, driven through a double planetary reduction unit provides precise, smooth load control with minimal engine rpm.

Matched sizes of main and auxiliary winches provide equal maximum available line pulls of 9,000 lbs. (4 082 kg) and maximum line speeds of 282 f.p.m. (84.60 m/min.) on 10-5/8" (270 mm) root diameter drums. 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 rope "bird caging" situation.



Industry first innovations...

Confined Area Lifting Capacities (CALC™) System



The new RTC-8018/8020/8022 rough terrain cranes are 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 fully 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 because of the ability to fully level the machine, no matter the ground conditions.



Fully Extended Outriggers – 18' 6-3/4" (5.66 m) spread



Intermediate Extended Outriggers – 12' 11-3/4" (3.96 m) spread



Fully Retracted Outriggers – 7' 4-3/4" (2.25 m) spread



The outrigger **extend position pins** are easily applied through the top of the outrigger boxes. Once the pins are inserted, the operator can set the crane in the intermediate or fully retracted outrigger mode without having to leave the cab.

Under full extension, the outrigger beams extend to a wide 18' 6-3/4" (5.66 m) base centerline to centerline. Centerline to centerline base dimension for intermediate outriggers measures 12' 11-3/4" (3.96 m) and 7' 4-3/4" (2.25 m) for fully retracted... narrow enough to fit in extremely tight working areas but with the stability and capacities provided by being set on outriggers.

A thorough, easy-to-read crane rating manual gives the operator comprehensive capacities covering the three outrigger positions with all attachments plus 'pick and carry' capacities.

The CALC System...another industry innovation from Link-Belt designed for exceptional customer value.

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 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

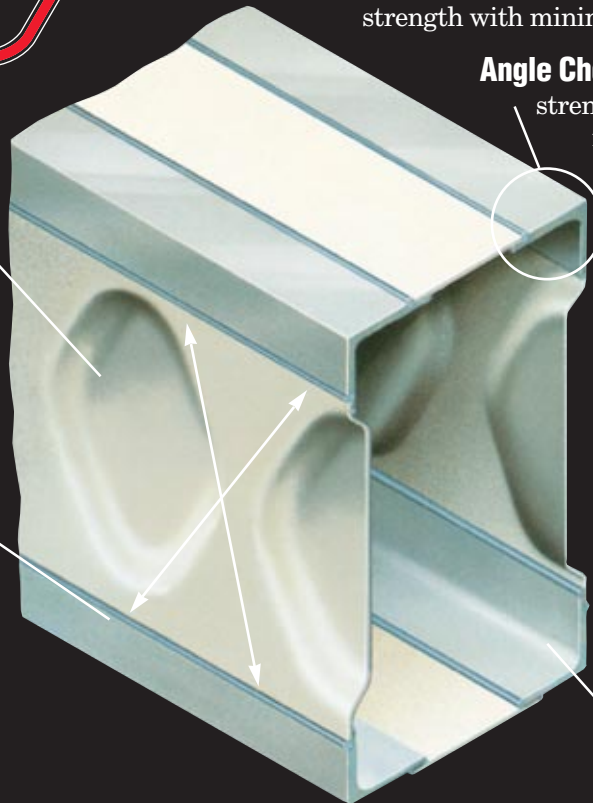
Boom wear shoes are replaceable without boom disassembly.

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 two decades 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:

- Stowable, 25' (7.62 m) fixed, one piece lattice type fly.
- Stowable, 25' (7.62 m) offsettable (2°, 15°, or 30° offset), one piece lattice type fly.
- Stowable, 25' – 43' (7.62 m – 13.10 m) offsettable (2°, 15°, or 30° offset) lattice type fly with telescoping box section.