

RTC-80100

Series II

Rough Terrain Crane 100-ton (90.72 mt)

- 100-ton (90 mt) at a 10' (3.05 m) radius
- 88,300 lbs. (40 052 kg) travel vehicle weight
- 40' to 150' (12.2 - 45.7 m) full-power, five-section formed construction boom, quick-reeve boom head
- 31' (9.5 m) one-piece lattice fly, stowable, offsettable to 2°, 25°, and 45°
- 31' to 55' (9.5 - 16.8 m) two-piece bi-fold lattice fly, stowable, offsettable to 2°, 25°, and 45°
- Two optional 15' (4.6 m) fly extensions increasing fly length to 85'
- Maximum tip height of 243' (74.1m)
- Three boom modes - A-max1, A-max2 and standard boom lifting capacities
- No deducts for stowed attachments
- Hydraulic counterweight removal
- Hydraulic pinned, removable front and rear outrigger boxes
- Removable rear winch with quick disconnects
- 21,000 lbs. (9 525 kg) max line pull and 430 fpm (131 mpm) max line speed
- Detroit Diesel, Series 40, 300-hp diesel engine
- Six-wheel hydrostatic drive with fully independent "A" Arm suspensions
- Travel speed 18.5 mph (29.8 km/h)
- Turning radius of 21' (6.4m)
- Ultra-Cab™ with single or dual-axis, pilot operated controls
- CabWalk™



Link-Belt
CONSTRUCTION EQUIPMENT

RTC-80100 Series II

Unveiling the next generation of formed boom design

This new boom design not only delivers full power boom and telescoping load capability but also delivers a superior load chart and a maximum tip height of 243-ft. (69.49 m) with full attachment. This formed boom is designed for larger cranes to meet greater length and stability requirements. The U-shaped, formed construction boom design offers exceptional strength and stability throughout the crane's chart. Strategically placed wear pads are utilized throughout the boom to disperse the load to maximize the overall stability providing greater capacities at longer load radii.

Rough Terrain Crane
100-ton (90.72 mt)

The industry's most innovative solution to big rough terrain crane maneuverability and transportability!

- Revolutionary hydrostatic drive on a three-axle, six-wheeled carrier for the ultimate in job site mobility
- Breakthrough transportability
- Maneuverability redefined
- 45-ton pick & carry capacities
- New U-shaped, formed boom meets greater length and stability requirements

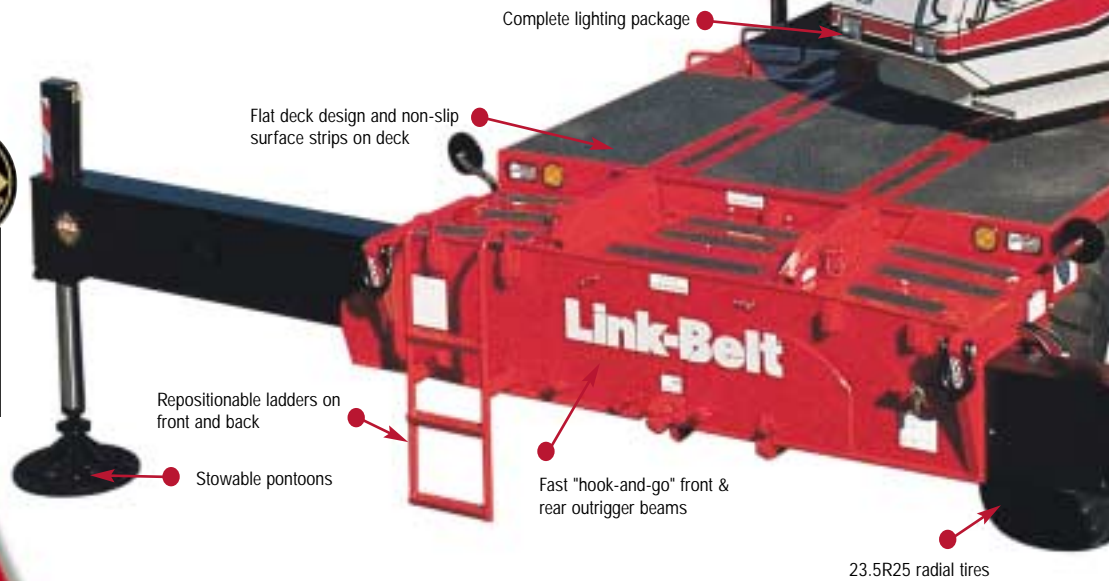


Optional two-piece bi-fold lattice fly can be extended with two optional 15' (4.57 m) fly extensions for up to 85' of fly

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Three position outrigger beams extend to 22' 6" and retract to 9' 7" with use of hand-held outrigger controls



Complete lighting package

Flat deck design and non-slip surface strips on deck

Repositionable ladders on front and back

Stowable pontoons

Fast "hook-and-go" front & rear outrigger beams

23.5R25 radial tires

Independent front



Independent rear



Coordinated six wheel drive



Six wheel "crab"





Partial counterweight and no counterweight charts



Catwalks on both sides of upper



Revolutionary hydrostatic drive on a three-axle carrier design

Not only is the RTC-80100 Series II easy to get from jobsite to jobsite, it also has extraordinary creep control and jobsite maneuverability, thanks to its hydrostatic powered motors in each wheel. With the smaller tires giving it an overall height of 12' 2.5" (3.72 m), along with its' individual six-wheel hydrostatic drive, there is no crane in the world, any size, that can come close to the job site maneuverability and performance of the RTC-80100. On the job, the RTC-80100's outstanding pick and carry capacity coupled with its long reach, maneuverability, incredible gradeability and low height make it truly an ideal solution for industrial sites.



Because of the innovative 6x6x6 hydrostatic drive/steer on each wheel, the turning radius of the 30' 10" (9.4 m) long carrier is a remarkable 21' (6.4 m).



Braden winch package with available line pull of 21,000 lbs

Standard load hoist system consists of a main winch with two-speed motor and automatic brake for power up/down mode of operation.

Bi-directional hydraulic motor, driven through a planetary reduction unit provides precise smooth load control with minimal rpm's.

Asynchronous, parallel double-over grooved drums minimize rope harmonic motion, improving spooling and increasing rope service life. A two-speed auxiliary winch is an available option.

Deflector rollers prevent premature wire rope wear when working at low boom angles.



The Ultra-Cab is roomier and quieter than traditional cabs

- Six-way adjustable fabric seat with lift-up armrest (which deactivates control functions when raised)
- Armrest mounted, responsive **dual or single axis hydraulic controllers**
- Bubble level sight level mounted on side console
- **Single foot pedal control**
- **Ducted air** through automotive-style directional vents
- **Tilt steering column**
- **Sliding right side**, rear windows and swing-up roof window
- **Automotive-style windshield**
- Corner-post-mounted, **backlit gauges**
- Large, sweeping electric wipers
- **Dashless design**

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↑ Powered by 300 hp (224 kW) Detroit Diesel Series 40, six-cylinder diesel engine with 1,050 ft.-lb. (1,424 nm) of torque.

Swing-out doors provide exceptional access to engine components.

↓ → Access is superb with strategically-located ladders, steps, catwalks and CabWalk.



New innovative 5-section full power boom with attachment flexibility

Introducing a new boom design, Link-Belt is unveiling the next generation formed boom design for larger cranes to meet greater length and stability requirements. The U-shaped, formed construction boom design offers exceptional strength and stability throughout the crane's chart. Strategically placed wear pads are utilized throughout the boom to disperse the load to maximize the overall boom strength and stability providing greater capacities at longer load radii.

- 150' (45.72 m)
- Maximum tip height is 243' (74.1 m) with the full attachment and main boom used in combination
- Can telescope loads of greater capacity than power-pinned booms
- No deducts for stowed attachments



Wear shoes all the way around the circumference of the boom spreads the load out and gives you good capacity and extended wear shoe life.



Lightweight nylon head sheaves (including the optional auxiliary lifting sheave shown here) reduce overall machine weight and increase lift capacities.

Quick reeve boom head allows rope to be easily reeved over boom head.

Hammerhead boom nose allows the operator to work at high boom angles.

Type "RB" wire rope is standard

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A-max modes

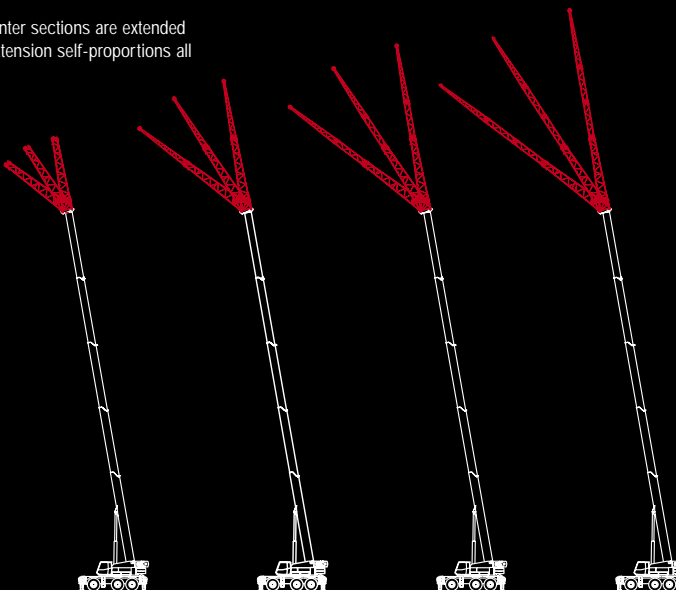
The exclusive A-max modes offer substantially increased capacities for in-close, maximum capacity picks, and provide the operator the capability to match the crane's configuration to specific job site conditions.

A-max¹ - 95' (29 m): Inner and center sections are extended, offering maximum strength

A-max² - 122' 6" (37.34 m): Tip, outer and center sections are extended yielding maximum stability. The basic boom extension self-proportions all four sections equally.

Optional lattice fly attachments

- 31' (9.44 m) one-piece lattice fly with lugs to allow addition of second section
- 31' - 55' (9.44 - 16.76 m)
- Also available are optional 15' (4.57 m) fly extensions that extend the bi-fold attachment to 70' with one section and 85' using two sections
- Erection of two-piece (bi-fold) lattice fly is a one-man operation
- Exclusive design reduces side deflection when lifting load
- Easy to erect and stow
- Attachments offset to 2°, 25° and 45°



Breakthrough transportability

- Unlike any other rough terrain crane in this class, in less than an hour, without a helper crane, the RTC-80100 is stripped to less than 90,000 lbs. and is ready for transport.
- Unlike other big RT's, the tires do not need to be removed for transport.
- Only the counterweights and outrigger boxes need to be removed to get the crane's vehicle width under 10' (3.05 m).
- Because it is under 10-ft wide and features a low 12' 2.5" (3.72 m) overall height, the RTC-80100 Series II incurs no daytime or weekend travel restrictions unlike competitor's cranes which exceed width and weight restrictions, which require special permits.
- The crane ships in two loads. Using an 18" conventional, drop deck trailer the crane unit is easily loaded out. The second truck handles the counterweights, fly extensions and outrigger boxes.



Link-Belt Construction Equipment Company is a leader in the design, manufacture and sales of telescopic and lattice boom cranes, with headquarters in Lexington, Kentucky.

In the recent decade, a dynamic and highly focused Link-Belt has emerged as a market leader in crane design and product quality standards by focusing on continuous improvement and employee empowerment.

Link-Belt operates on the principles of continuous quality improvement, ISO 9001, and established values that support the vision of quality. These principles result in reduction in waste, better use of company resources and improved employee and customer satisfaction.

With major capital improvements over the last ten years, along with continuous improvement philosophies, this facility has emerged as the most modern crane facility in North America.

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Lexington, Kentucky
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