

# 18-Ton Rail Crane

New or Rebuilt



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## Key Features

The 18-Ton Rail Crane includes the following key features:

- Enclosed single-operator (with space for one additional passenger), climate-controlled cab
- Lattice-style boom, with 18-ton capacity
- 35 ft. boom; 55 ft maximum with optional extensions
- 360-degree continuous upper deck rotation
- Integrated CraneSmart load moment indicator (LMI) system (optional)
- John Deere Tier III, 275 HP engine
- Railcar couplings and train line air brake system
- Hydrostatic traction system
- 24Vdc (dual 12V) batteries, 1150 cold-cranking amps
- Funk three-speed power shift transmission
- 28 mph maximum travel speed
- Electric-over-hydraulic proportional joystick winch control
- Pullmaster winches

*Redesigned lattice boom and power shift transmission provide excellent reliability.*



## Completely redesigned

The Nordco 18-Ton Rail Crane is the next generation of the classic industry workhorse: the Pyke 18-ton material handling crane.

The completely redesigned crane features updated hydraulic and electrical systems, as well as an ergonomically designed two-person (one operator and one passenger), climate-controlled cab.

In addition, the new lattice boom design and the hydrostatically driven power shift transmission provide increased reliability.

## Purchase or rebuild options

Select one of our two convenient purchasing options:

- Purchase a new 18-Ton Rail Crane.
- Have us rebuild and upgrade your existing crane into a Nordco 18-Ton Rail Crane; your crane will be rebuilt from the frame up, will incorporate the latest technology upgrades, and will carry a full new machine warranty.

## Integrated LMI system

The optional integrated CraneSmart load moment indicator (LMI) uses the following five areas, in concert, to determine if load stability has been compromised according to the pre-programmed load charts.

- Level — measures the superelevation of the track
- Boom Angle Indicator — measures the angle of the boom; the LMI will stop operations if the boom is too high
- Boom Direction Indicator — a sensor mounted on the upper deck directly below the winch area work with eight directional tags mounted on the lower deck. When the boom comes into close proximity to any of these tags, the information is sent back to the LMI
- Anti-Two-Block — prevents hook block contact with the sheaves
- Load Cell — measures the weight of the total load

## Lower cost of ownership

Since the Rail Crane uses many of the same components as other Nordco machines, you can stock fewer maintenance parts on your parts wagon.

In addition, your staff can easily transition their existing Nordco equipment knowledge to the Rail Crane, shortening the amount of time required to master diagnostic or preventive maintenance procedures.

## Optional Equipment

Option Type	Description
Boom	10- and 20-foot boom extensions
LMI	Cranesmart load management system
Lighting	Locomotive and perimeter lighting
Generator	10 KW Rud-o-matic magnet generator
Pumps	Electric emergency pump
Other	Outriggers

## Crane Specifications

Specification	Value
Boom Lengths	17' 7" (primary) 17' 6" (secondary)
Boom Rated Capacity	See load chart in operator's manual
Main Winch	Hoisting line pull at maximum pressure: 6,250 lbs (full drum) 9,756 lbs (bare drum)
	Lowering line pull at maximum pressure: 1,474 lbs (full drum) 2,252 lbs (bare drum)
	Hoisting line speed at maximum volume: 201 fpm (full drum) 129 fpm (bare drum)
	Lowering line speed at maximum value: 871 fpm (full drum) 558 fpm (bare drum)
	Cable Type: 262 ft (maximum cable capacity) 2200 psi (maximum operating pressure) 17 gpm/50 gpm (minimum/maximum operating volume) 1.5 gallons (lubricating oil volume required)
Boom Winch	Line pull at maximum pressure: 6,250 lbs (full drum) 9,756 lbs (bare drum)
	Line speed at maximum volume: 201 fpm (full drum) 129 fpm (bare drum)
	Cable type: 5/8" diameter, Class 6-19 IWRC, non-rotating, right lay/normal lay 262 ft (maximum cable capacity) 2200 psi (maximum operating pressure) 17 gpm/50 gpm (minimum/maximum operating volume) 1.5 gallons (lubricating oil volume required)
Magnet Reel	Cable type: 2 core, #8 gauge cab type wire Maximum cable capacity: 60 ft Lubricating oil type/volume: SAE 90 Heavy
Magnet Generator	Gensco model HMG - 10 KW
Maximum Round Magnet Size	45" diameter

## Ask us about...

### Rebuild Programs

Are your maintenance-of-way machines getting older and less reliable? Nordco can rebuild virtually all maintenance-of-way equipment, regardless of original manufacturer, restoring your machines to like-new status.

### Component Exchange Programs

Do you only need a replacement component, such as a workhead or axle, for your maintenance-of-way machine? You can order new or rebuilt components to be delivered directly to your shop or field operations.

### Trade-In Programs

Interested in purchasing a new maintenance-of-way machine, but wondering what to do with your existing equipment? In many cases, you can trade in your current equipment for credit towards a new machine.

### Rental Programs

Have a short-term need for a particular maintenance-of-way machine? Check our website for a current list of available rental equipment.

### Parts Availability

Need parts for your maintenance-of-way machine? Contact our part experts at 1-800-647-1724, Monday through Friday, 7:30 a.m. to 5:00 p.m. US Central Time.

Want to ensure that you order the most essential parts to keep your maintenance-of-way machine operational? Check our website or ask your parts sales representative about the available critical component kits and basic spare part kits for your machine.

Not sure what parts to order for preventive maintenance or winterization? You'll find a large range of kits available - check our website or ask your parts sales representative.

## General Product Specifications

Category	Specification	Value
<b>General</b>	Weight	98,500 lbs (approximate - actual weight may vary based on selected options)
	Rated capacity	18 tons
	Length	17' 4" (without boom) 49' 9" (overall length with boom in travel position)
	Width	10' 4"
	Height	13' 6" (top of engine exhaust, with crane at lowest angle and position) 42' 9" (with crane at highest angle)
	Boom lengths	17' 7" (primary) 17' 6" (secondary)
	Travel speed	28 mph maximum
	Towing speeds	30 mph (disconnect drive shafts before towing to prevent transmission damage)
	Towing limitation	10 rail cars maximum
	Tail swing	6' 11"
<b>Capacities</b>	Fuel tank	110 gallons
	Hydraulic oil tank	220 gallons
	Axle housing	4.2 gallons
	Oil cooler	2 @ 44.25 gpm, 89.5 gpm total
	Air compressor	.75 gallons
	Cable winder	2 gallons
	Boom capacity	See load chart in operator's manual
<b>Engine</b>	Make	John Deere
	Model	6068HF485, Tier III
	Idle Speed	1,100-1,200 rmp
	Rated horsepower	275 @ 2400 rpm (under load)
	Run speed	2100 rpm (running faster will cause cavitation damage to load sense pump)
<b>Transmission</b>	Type	Funk 2000 series, three-speed
<b>Electrical System</b>	Battery	24Vd (two 12 VDdc batteries), 1150 cold-cranking amps
	Ground	Negative
<b>Brakes</b>	Type	Heavy-duty air brakes
	Compressor	1800 rpm, 78.8 cfm
	Tank drier	SKF Turbo 2000
	Hand brakes	Ellcon National, model 1180
<b>Hydraulic System</b>	Double Gear Pump (optional)	Permco 257 series, 48.3 gpm @ 2100 rpm (x 2)
	Single Gear Pump	Permco 257 series, 48.3 gpm @ 2100 rpm
	Load Sensing Pump	77.5 gpm, 2175 psi, 2100 rpm, 500 psi LS setting

[www.nordco.com](http://www.nordco.com)

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