

RPI - Ride-On Plate Inserter



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Key Features

The RPI - Ride-On Plate Inserter includes the following key features:

- Single-operator (with two jump seats), climate-controlled, enclosed cab; extended cab option available
- Two heavy-duty plate inserting head assemblies over each rail
- Fully adjustable workhead to adapt to different rail and plate heights
- Cab-controlled power lockups
- Integrated guide rollers for stability during plate insertion
- John Deere four-cylinder, four-stroke diesel engine
- Four-wheel, dual-axle, chain-driven propulsion system
- Spring-applied, hydraulic-released brakes, with Cobra brake shoes
- 24 VDC, circuit breaker-protected, electrical system
- Integrated, positive locking, rail-to-rail turntable
- Single, pressure-compensated hydraulic pump
- Joystick controls

Easily adjust the workhead to adapt to different rail and plate heights.



Save on personnel costs

Are you currently using several crew members to walk alongside a rail lifter machine and insert/position tie plates? With the RPI, the rail is lifted and the tie plates on both sides of the rail are simultaneously inserted and positioned - all by a single operator.

Single- or dual-rail operation

Single- or dual-rail operating modes make the RPI appropriate for use by both rail and tie gangs.

High productivity

The RPI can handle a plate insertion production pace of up to 10 ties per minute.

Select between automatic or manual modes

Use the one-button automatic mode to automatically insert tie plates at pre-set rail and plate heights or, when necessary, switch to manual mode to precisely move the workhead to the desired height/location.

One-button homing

After one set of tie plates is inserted, the one-button homing feature lowers the rail, retracts the plate fingers, and positions the finger assembly - automatically setting up the workhead for the next tie.

Increased operator visibility

An on-board camera and display provides additional visibility of the workhead region, as well as the surrounding area. In addition, the in-cab console notifies the operator of the plate insertion status.

Quickly adjust to different working conditions

Make simple workhead adjustments to handle different rail heights, plate lengths, ballast conditions, as well as curved track. In addition, an integrated turntable allows the RPI to easily reverse direction on the track.

An on-board camera/display allows the operator to clearly see the workhead area.

Ad-hoc rail height adjustments

The Rail Bump-Up feature allows for quick, ad-hoc rail height changes for a single plate insertion.

Use fewer personnel carriers

The optional extended cab allows up to seven extra crew members (total capacity = 8) to ride in the cab. Fewer personnel carriers mean less equipment to maintain and less space needed on sidings for overnight storage.

Stock fewer maintenance parts

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



Rail jacks raise the rail while the finger assembly inserts and positions the plate.

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.

Optional Equipment

Category	Option Type	Description
Cab	Extended cab	Extended cab (includes bench seating, seat belts, and storage)
	Cab accessories	Cab pressurizer, cab window shades for standard and extended cabs
Repair & Maintenance	Corner-mounted jackstands	Lifts the unit to allow under-machine repairs
	Electric hydraulic tank fill system	Allows quick filling of hydraulic tank
	Spare hose tree	Stores extra hoses on the machine
	Remote coolant filter loops / Remote fluid drains	Allows quick filter/fluid maintenance
	Schroeder KF 30 case drain return filtration	Filters oil to remove engine wear-related metal filings
Other Accessories	Electric emergency pump	Allows workhead to be moved if engine fails
	Gauges and alarms	Fuel level site gauge, speedometer, hydraulic reservoir temperature gauge, low hydraulic oil level/high hydraulic oil temperature alarm, turntable warning light and buzzer
	Lighting and mirrors	Heated outside mirrors, perimeter lighting package
	Storage	Additional book storage box, operator belongings box, track tool box
	Miscellaneous	"Danger Live Track" retractable belt, DOT reflective tape, extra parts/operations/maintenance manuals, rail sweeps, tow bar with D-handle hitch pins, windshield wipers and nozzles

Product Specifications

Category	Specification	Value
General	Weight	22,000 lbs
	Length	19' 6"
	Width	8' 6"
	Height	10' 6"
	Wheel base	108"
	Travel/towing speeds	25 mph (maximum); 20 mph (maximum)
Capacities	Fuel tank	60 gallons
	Hydraulic tank	98 gallons
Engine	Make/Model	John Deere 4045T
	Type	Four-cylinder, four-stroke
Hydraulic System	Make/Model	Vickers PVM98 series
	Type	Vickers manifold
Electrical System	Battery	24 Vdc (dual 12V DC batteries), 1150 cold-cranking amps
Axle Drive System	Drive type	Four-wheel, with two solid axles
	Propulsion type	Hydraulic chain drives
Brakes	Type	Spring-applied/hydraulically released
	Style	Four-wheel Cobra-style
Pulling Weights	Rated draw bar pull	1,650 lbs.

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