RPI - Ride-On Plate Inserter

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.

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Save on personnel costs

Are you currently using several crew members to walk alongside a rail lifter machine and insert tie plates? With the RPI, the rail is lifted and the tie plates on both sides of the rail are automatically 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 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.

Use your smartphone to scan this code for more information.

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
	Electric emergency pump	Allows workhead to be moved if engine fails
Other Accessories	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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