

TRIPP - Tie Remover/Inserter



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Key Features

The TRIPP - Tie Remover/Inserter includes the following key features:

- Single-operator climate-controlled, enclosed cab
- 82-inch-stroke-length workheads for work on either side of track; 12,880 lbs. insertion force / 20,740 lbs. removal force
- Automatic controls, with manual override
- Cummins Tier III engine
- Four-wheel, dual-axle, hydraulic drives
- Spring-applied, air-released brakes, with Cobra brake shoes
- 24 VDC, circuit breaker-protected, electrical system
- PLC electrical control system
- Dual, pressure-compensated, hydraulic pumps
- Steel manifold-mounted, electrical control valves
- Cab-controlled locks on all cylinders
- Joystick controls

Remove and insert ties from either side of the track, depending on location restrictions.



Minimal disturbance to track structure

The controlled rail lift height system ensures that there is minimal disturbance to the track structure during removal/insertion operations. The weight of the machine, as well as the load transfer inherent in the machine's design, also stabilizes the track during these operations.

Operates from either side of track

82-inch-stroke-length workheads allow the operator to perform removal/insertions from either side of the track, allowing greater control in obstructed or constricted areas; the operator can also access the cab from either side of the machine.

Handles wood and concrete ties

The TRIPP is designed to handle all wood, as well as wood composite, ties. In addition, optional concrete grippers are available to convert the TRIPP to handle concrete ties.

Adjusts for different rail types and heights

Simple switch settings allow the operator to quickly adjust for jointed or welded rail. In addition, operator-controlled settings allow rail lift height adjustments for different rail heights - even different heights on left and right rails.

Robust extraction/insertion force

The TRIPP has the most robust extraction/insertion forces in the industry:

- Extraction force - 20,700 lbs.
- Insertion force - 12,900 lbs.

Adjustable gripper force

The gripper force for the tie gripper assembly can be adjusted for the following:

- Different tie types
- Tie degradation (to prevent further tie disintegration during removal)
- Tie insertion (to prevent damage to new ties)

The gripper force on the tie gripper assembly can be manually adjusted for different tie types and levels of tie degradation.

Ad-hoc rail lift height adjustments

A rail lift jog option lets the operator make ad-hoc rail lift clearance adjustments to handle specific rail or tie conditions. In addition, in-cab controls allow for precise manual positioning of the rail lift assembly; the assembly then automatically returns to its normal settings for the next tie.

Excellent operator visibility

The open design in the workhead area, as well as the floor-to-ceiling windows in the cab, provide excellent operator visibility of tie removal/insertion operations. Also, operator-controlled tie sweeps and brooms clear ballast from the work area, making it easier to view the ties and rail.

Set removal/insertion speeds

Operators can easily adjust for different working conditions, including gang speeds, ballast conditions, and tie conditions, by setting the removal and insertion speeds.

Stock fewer maintenance parts

Since the TRIPP uses many of the same components as other Nordco machines, you can stock fewer maintenance parts on your parts wagon. In addition, the machine's modular design - especially the workhead assemblies - makes components accessible and easy to maintain.



Rail jacks raise the rail while the gripper assembly inserts or removes the tie.

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
Cabin	Cabin accessories	Cab window shades, vandal guards (protective screens over cab windows)
Tie Control	Tie-related accessories	Concrete tie grippers (1 pair), rail lift spotting feature, tie insertion stop device, upgrades to make machine suitable for work in third-rail territory
Engine	Engine upgrade	John Deere Tier IV diesel engine
Repair & Maintenance	Lubrication system	Air-powered grease lubrication system (35# pail & 32' hose)
	Electric hydraulic tank fill system	Allows quick filling of hydraulic tank
	Spare hose tree	Stores extra hoses on the machine
	Remote coolant filter loops	Allows quick filter maintenance
	Schroeder KF 30 case drain return filtration	Filters oil to remove engine wear-related metal filings
Other Accessories	Drive axles	Cab-selectable insulation by-pass for drive axles
	Gauges and alarms	Fuel level site gauge, hydraulic reservoir temperature gauge, low hydraulic oil level/high hydraulic oil temperature alarm
	Lighting and mirrors	Heated outside mirrors, perimeter lighting package
	Storage	Additional book storage 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 washer fluid tank and nozzles

Product Specifications

Category	Specification	Value
General	Weight	36,000 lbs
	Length	36'
	Width	11'
	Working clearance	12' 1" (from center of track with one tie exchanger extended)
	Height	11' 6"
	Wheel base	25'
	Travel speed	23 mph (maximum)
Capacities	Fuel tank	120 gallons
	Hydraulic tank	2 @85 gallons
Engine	Make/Model	Cummins Tier III diesel engine
Hydraulic System	Pumps	Oil Gear PVG
	Control valves	Piston pump
Electrical System	Battery	24 Vdc (dual 12V DC batteries), 1150 cold-cranking amps
Axle Drive System	Drive type	Dual-axle, chain-drive, hydraulic
Brakes	Type/Style	Pneumatically-applied (air), four-wheel, Cobra-style

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