

TRACK RENEWAL SYSTEM

Model TRT-909



TRACK RENEWAL SYSTEM

Special Features

Harsco Rail's TRT-909 track renewal system provides a more efficient method to handling major track renewal programs. The TRT-909 works with concrete, pre-plated wood, or steel ties. It delivers simplicity in operation for customers and leaves behind high quality track with precise tie spacing and a smooth ballast bed.

Features & Benefits

- Works with concrete, pre-plated wood, or steel ties
- Removes and replaces crossties
- Pulls and reclaims spikes
- Removes and collects rail anchors
- Removes the old rail and installs the new rail
- Induction Rail Heaters
- Automatically applies McKay rail fasteners (other types of fasteners can be applied)
- Vacuum System



Spike Pullers

Spike pullers remove the field side spikes and leave the gauge side spike to hold the tie plate in a fixed position. There is one spike puller located over each rail. A magnetic spike pick-up wheel reclaims the spikes after they have been pulled.

Old Tie Equipment

The old crossties are lifted from the roadbed and placed on the conveyor by the Old Tie Pick-Up Mechanism. The old ties are then transported by conveyors to a staging area where a gantry collects them for transport to storage areas on the flatcars.

Roadbed Preparation

Immediately behind the Old Tie Pick-Up Mechanism, a ballast spreader/plow destroys the old tie molds and undercuts the ballast section to prepare the roadbed for the new ties.

New Tie Laying

The new ties are then positioned on the prepared roadbed by the New Tie Laying Mechanism. A tie spacer bar squares up the crossties after they are laid on the track bed. A distance counter wheel controls the spacing of the ties and is adjustable to meet various tie spacing requirements.

Rail Laying/Threading

Using a series of rollers, the old rail is removed and threaded out along side of the track, and the new rail is picked up from the shoulder and laid in gauged position. Thus, the machine simultaneously removes the old rail while laying the new rail.

Gantries

Each self-propelled gantry has one operator. The rear gantries transport ties to and from the front gantry which in turn moves the ties to and from the old and new tie conveyors.

Flat Cars

Standard flat cars are equipped with auxiliary rails which form a continuous running rail for the gantries. The flat cars are stocked with new ties in four or five layers. As new ties are used, old ties are stored on the flat cars.

Induction Rail Heater

The Induction Rail Heater provides accurate and efficient rail distressing capability. The heaters raise the rail temperature to the required neutral temperature.



Contract Services

The first track renewal system was built in 1978 and has since installed approximately 15,000,000 ties (equal to 5,700 miles or 8,500 km). Harsco Rail's Contract Services provide customers with a high quality service by crews that know the machine's maintenance and operation best.

TRACK RENEWAL SYSTEM

Specifications

Length	Without Locomotive: 90.2 m (296 ft.)
Width	On Bogie: 3.24 m (10 ft., 8 in.)
Height	4.72 m (15 ft., 6 in.)
Drive Train	525 hp diesel driving variable-flow hydraulic pumps for hydrostatic advance of the machine during work. Three (3) variable-flow hydraulic pumps supplying the Old Tie Pick-up System and the Rail Guide System.
Traction during Operation	6 powered bogies
Min Curve Radius	(Working) 144 m (12 degrees) (478 ft.) (Traveling) 97.5 m (18 degrees) (320 ft.)
Ballast Regulation	Over a width of about 2.79 m (110 ft.)
Plow Height Adjustment	152.4 mm (6 ft.)
Plow Traverse Inclination	(Change in cross level) 38 mm (1 ft., 6 in.)
Max Length of Ties Handled	2.81 m (9 ft., 3 in.)
Traveling Speed	Towed: Up to 80 km/h (50 mph)
Operator's Stations	Five (5)
Fuel Capacity	2,082 liters (550 gal.)
Hydraulic Oil Capacity	1,741 liters (460 gal.)
Distance between Axles/Bogies	13.80 m (45 ft., 3 in.) / 17.53 m (57 ft., 6 in.)
Brakes	Compressed air shoe brakes, hand brake with wheel control
Guide Rail Correction	±75mm (±2.95 ft.)

Gantries

Length	8.58 m (28 ft., 2 in.)
Width	3.10 m (10 ft., 2 in.)
Height	3.10 m (10 ft., 2 in.)
Gauge of Auxiliary Rail	2.92 m (115 5/16 in.)
Capacity	18-22 sleepers
Fuel Capacity	379 liters (100 gal.)

Harsco Rail, Harsco Corporation Facility Locations:

2401 Edmund Road
Box 20
Cayce-West Columbia, SC
29171-0020
Tel: (803) 822-9160
Fax: (803) 822-8107

415 North Main St.
Fairmont, MN 56031-1837
Tel: (507) 235-3361
Fax: (507) 235-7370

200 S. Jackson Rd.
Ludington, MI 49431
Tel: (231) 843-3431
Fax: (231) 843-4830

900 Kings Highway North
Suite 208
Cherry Hill, NJ 08034
Tel: (856) 779-7795
Fax: (856) 779-7431

4 Strathwyn St.
P.O. Box 5287 Brendale
Queensland 4500, Australia
Tel: 61 7 3205 6500
Fax: 61 7 3205 7369

Unit 1, Chewton Street, Eastwood
Nottingham NG16 3HB
United Kingdom
Tel: 01773 539480
Fax: 01773 539481

Av. Marechal Camara
160 Grupo 1901
Control CEP: 20020-080
Rio de Janeiro-RG
Tel: (21) 2510-5151
Fax: (21) 2224-3484

Harsco Rail Europe GmbH
Rehhecke 80
40885 Ratingen
Germany
Tel: +49 2102 937200
Fax: +49 2102 37651

Harsco APAC Rail Machinery Trading
(Beijing) Co. Ltd.
Room 805, State Guest Mansion
No. 11 Fuwai Ave.
100037 Beijing, China
Tel: +8610-6800-3286
Fax: +8610-6800-3288

The HARSCO RAIL equipment pictured in this brochure is intended to illustrate the general appearance and features of this product. It is equipped as specified by a particular customer and may or may not show items that are optional or recommended by HARSCO RAIL, Harsco Corporation. Specifications, illustrations, and descriptive materials herein were accurate as known at the time this publication was approved for printing. HARSCO RAIL, Harsco Corporation reserves the right to discontinue models or options at any time or change specifications and materials, equipment and design without notice and without incurring obligation. Federal, State or Provincial, and/or local laws and regulations may require additional equipment for the particular use intended for this product. It is the buyer's responsibility to determine the applicability of such laws and regulations to the buyer's intended use for the product and to arrange for the installation of the required equipment. Other products and companies referred to herein are trademarks or registered trademarks of their respective companies and/or mark holders.

© 2013 Harsco Corporation

Download full specs at www.harscorail.com
Watch video at www.youtube.com/user/harscorail

Harsco Rail

2401 Edmund Rd., Box 20
Cayce-West Columbia, SC 29171-0020

Tel: (803) 822-9160
Fax: (803) 822-8107
Email: railinfo@harscorail.com
www.harscorail.com

Bulletin #TRT-01B-0513
Printed in USA, May, 2013

HARSCO
RAIL



AREMA



REMSA