

LORAM[®]

RAILVAC[™] EXCAVATOR



The Most Versatile Machine on your Property

A solution for tough maintenance of way problems.

Special track works are the most expensive part of any railroad yet commonly the most neglected as they create unique maintenance challenges.

As is usually the case, maintenance problems on the rail start with a variety of either ballast or subgrade problems under the rail. Poor drainage, fouled ballast, and mud spots create the same havoc under special track works as they do under open rail yet are often bypassed during standard maintenance programs.

In many cases railways are faced with either a complete reconstruction, which can shut down a line segment, or some combination of standard excavating equipment along with painstaking and costly hand labor. In today's railroad environment it is critical to get the most out of every track possession and every maintenance dollar.

Productive and Versatile.

In typical Loram fashion we now offer the most productive and versatile machine of its kind. Imagine a system that could completely reconstruct grade crossings without removing the rail or ties one day, and install drain tiles in a tunnel the next.

RAILVAC[™] is a unique excavation machine that conveys material through vacuum and airflow. The machine is rail mounted and designed to travel at track speeds while towing up to four fully loaded ballast cars. The combination of a powerful digging arm with twin engines and vacuum pumps makes it capable of excavating compacted ballast, clay, mud, water, sand and soil. The digging arm can work at distances up to 15 feet from track centerline.

Material is extracted through the suction hose and deposited in the main hopper. The finer dust then runs through a filtering system, which removes it from the air stream. The filter elements are cleaned automatically by the air counterflow during the routine unloading of the system. A rear swing conveyor, or optional side dumping doors unload material.

Applications.

RAILVAC[™] excavation applications include:

- Cribbing and undercutting mainline mud spots
- Removing fouled ballast and debris from tunnels
- Cleaning and installing drain tiles and culverts
- Cross trenching for cables and pipes
- Removing ballast from bridge decks and grade crossings without removing ties or rail
- Undercutting switches and diamonds
- Excavating contaminated materials from yards and stations
- Yard cleaning and reconstruction
- Locating and excavating cables without damage

Reliable Service and Support.

Loram leads the way in experience when it comes to its machine crews. A formal training program is required of all operators before assignment to a RAILVAC[™] crew where they add to their skills with a wide variety of on-the-job railroad experiences. The well-qualified crews produce economical and high-quality work.

Loram has the solution to meet all your excavation needs. For more information, contact Loram at (763) 478-6014.

Specifications

LORAM LRV RAILVAC™ EXCAVATOR

Length:
105 feet (32 m) excluding air dump
Width:
10 feet (3 m)
Height:
14.5 feet (4.4 m) above top of rail
Weight:
Maximum 88 tons (80 tonnes) while loaded
Travel Speed:
45 mph (74 kph)
Power Output:
2 x 320 hp (2 x 240 kW)
Noise Level of Power Unit:
75 dBA @ 23 feet (7 m)
Air Flow, Open Flow:
10,200 cubic feet (289 cubic meters) per minute
Vacuum:
11.6 psi (80%) (0.8 bar)
Material Loading Capacity:
Typical results depend on application and material conditions. - Loose, granular material—35 yd ³ /hr (26.8 m ³ /hr) - Compacted, moderately fouled—20 yd ³ /hr (15 m ³ /hr) - Heavily cemented or clay filled—10 yd ³ /hr (7.6 m ³ /hr)
<i>Contact Loram for more information</i>
Material Storing Capacity:
20 cubic yards (15 cubic meters) excluding air dump
Material Discharge:
Belt conveyor to air dump or waste up to 30 feet (9.1 m) either side of track center. Optional side dump.

RAILVAC is a registered Trademark and this equipment is manufactured under license of DISAB Vacuum Technology AB; Lund, Sweden.

Subject to change



Mud Spots



Bridge Decks



Tunnels



Reliable Cost Effective Service Solutions

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