

LORAM®

Loram Transit Railvac®



Rail Mounted Excavation Machine

Speed, Performance, Reliability

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

Maintenance problems on the rail start with a variety of either ballast or sub grade 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 and are often bypassed during standard maintenance programs.

In many cases railways are faced with either a complete reconstruction, 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.

Loram's Railvac is a powerful rail mounted excavation machine that removes material through mechanical agitation and airflow. The combination of its strong manipulator arm, powered by a diesel engine, and its powerful vacuum pumps makes the Railvac capable of excavating compacted ballast, ice encrusted ballast, clay, mud, water, sand, and soil. The Railvac is designed to travel at higher track speeds, while towing fully loaded material handling cars.

Nozzle Flexibility.

Loram's Railvac has two different nozzle options: the standard nozzle and the rotary nozzle. The standard nozzle is ideal for most vacuum excavation projects including cribbing and tie restoration projects. It is also perfect for work performed on sensitive track components (cables and signals) that would be damaged by a rotary nozzle. The rotary nozzle is used to break up tough mud spots and is ideal for undercutting compacted, encrusted material.

The nozzle can tilt 45 degrees from vertical in any direction to reach ballast under hard to reach track structures such as third rail and work at distances up to 15 feet (4.5 m) from track centerline.

Dual Rotating Cab.

Equipped with a dual rotating cab, the Railvac ensures total visibility of the worksite and safer operations. The dual cab design is capable of rotating 60 degrees in each direction.

Applications.

Railvac applications include:

- Cribbing ballast in platform areas and other restricted areas
- Undercutting 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

Reliable Service and Support.

With more than 50 years of maintenance of way services, Loram brings its "partnership" approach to working with all of its customers. If you are looking for increased safety, productivity, and flexibility, then Loram's Railvac is the excavator of choice!

For more information visit www.loram.com or call your local Loram Regional Manager.

Specifications

Length:	108' (33 m) over strikers
Width:	102" (2.6 m)
Height:	130" (3.3 m) for normal operation; can be reduced to 118" (3.0 m) for travel
Weight:	264,000 lb (132 tons / 120 tonne)
Horse Power:	700 hp
Travel Speed:	50 mph (80 kph)
Towing Speed:	62 mph (100 kph)
Vacuum Air Flow:	10,200 cfm (open flow), (290 m ³ /hr)
Vacuum Pressure:	@ 80% vacuum 0.8 BAR (11.6 psi)
Material Loading Capacity:	<p>Typical results depend on application and material conditions:</p> <ul style="list-style-type: none"> • Loose, granular material - 35 yd³/hr (27 m³/hr) • Compacted, moderately fouled - 20 yd³/hr (15.4 m³/hr) • Heavily cemented or clay filled - 10 yd³/hr (7.7 m³/hr)
Additional Car Pulling Capacity:	1-2 cars depending on grade and speed requirements
Fuel Capacity:	600 gallons (2270 L)
Noise Level of Power Unit at High Idle (Noise Levels While Excavating Vary Depending on Conditions):	80 dBA at 10 meters; while excavating: 87 dBA at 10 meters
Material Discharge:	Side discharge
Material Storing Capacity:	45 yd ³ (35 m ³)

Subject to change

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Dual Rotating Cab



Tilting Nozzle



Rotating Nozzle

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