



Artist Rendering

CONTROLLED EXCAVATION WITH UNMATCHED VACUUM POWER.

LTV SERIES SPECIALTY EXCAVATOR

Loram's LTV is a powerful, rail-mounted specialty excavating machine that removes up to 50 cubic yards of material per hour using mechanical agitation and airflow. The most productive, vacuum-based maintenance of way excavation machine on the market, the LTV combines 5,000 lbs of nozzle strength with the fixed displacement vacuum pumps capable of 12,000 CFM of airflow. This makes it capable of excavating a host of challenging materials including compacted or ice-crusting ballast, mud, water, sand and soil. The split hopper design allows continuous excavation no longer requiring work to stop during material offload.

The LTV is designed to travel at track speeds while towing up to two fully-loaded material wagons. It offers a cab forward design keeping the operator in a secure and climate-controlled position during both work and travel operation. The manipulator's precision control, unmatched power and a compact footprint provide unmatched flexibility when working around sensitive track equipment. Removing ballast around switches, signal and communications wires, on bridges, or in tunnels is done without risk of damage to critical assets. The combination of industry leading vacuum power and airflow excavates material faster than any other products in the market. The manipulator can position the nozzle 45° from vertical in any direction to reach ballast around hard to reach track structures, including under sleepers and near third rail. The standard nozzle can work at distances up to 16 feet from track centerline and 5.5 feet below top of rail, maximizing the work area.

Compact power and control make the versatile LTV ideal for excavating specialty trackwork, trackside equipment and yard applications, with the ability to traverse and operate within restricted clearances, including tunnels, passenger platforms and bridges.

FEATURES AT A GLANCE

- **Twin 300 hp (220 kW) vacuum pumps** deliver 5,000 lb (2,200 kg) of force to excavate the most challenging materials
- **10 yd³ (8 m³) of material storage** capacity
- **Removes up to 50 yd³ per hour** (38 m³/hr) combining powerful mechanical agitation and airflow
- **Powered manipulator arm** with nozzle can tilt 45° from vertical and reach 15 ft (4.6 m) from centerline
- **Compact, targeted and versatile** for dozens of discrete excavation applications

For more information on this machine, or on developing a tailored maintenance program for your railroad, contact Loram at **1-800-328-1466** or visit **LORAM.COM**

SPECIFICATIONS

LORAM LTV SPECIALTY EXCAVATOR

LTV SPECIALTY EXCAVATOR	
Length	65 ft (19.8 m)
Width	8.9 ft (2.7 m)
Height	12.5 ft (3.8 m)
Weight	176,000 lb (80,000 kg)
Excavation Rate ¹	– Loose material – 50 yd ³ /hr (38 m ³ /hr) – Compacted material – 28 yd ³ /hr (22 m ³ /hr) – Cemented material – 13 yd ³ /hr (10 m ³ /hr)
Min. Excavating Depth	5.5 ft (1.7 m) from top of rail
Excavating Width	16.5 ft (5.0 m) from track center
Material Storage Capacity	10 yd ³ (8 m ³)
Air Flow, Open Flow	11,800 ft ³ (334 m ³) per minute
Vacuum	14 psi (0.95 bar)
Material Discharge	Up to 20 ft (6 m) from either side of track center or into a material handling car
Travel Speed	– Self-powered: Up to 62 mph (99 km/h)
Gradeability	Up to 6%
Minimum Work Radius	22° curve (80 m radius)
Minimum Travel Radius	22° curve (80 m radius)

¹ Typical; subject to application and material conditions
 Specifications subject to change

LTV Additional Features & Benefits:

- Built to work in tough freight railroad conditions and on commuter or transit railroad environments
- Advanced, self-cleaning dust filtration system
- Cab forward design for operation
- Designed to travel at track speeds while towing two fully-loaded material handling cars
- EN14033 / AAR / FRA compliant

LTV 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 near cables without damage



SERVICE & SUPPORT

With a 70-year legacy of serving the railroad industry with the most advanced technologies, the most reliable and productive maintenance of way equipment and world-class contract service work, Loram brings its partnership approach to every customer relationship. This includes an extensive training and technical support program with every machine. Whether for a heavy haul, high-speed, underground or metro-rail system, Loram has the equipment and services you need.

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LORAM.COM | 1-800-328-1466
 SALES@LORAM.COM | 763-478-6014
 3900 ARROWHEAD DRIVE | HAMEL, MN 55340 USA