



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 38 cubic meters 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 2,200 kg 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 4.6 meters from track centerline and 1.7 meters below top of rail, maximising 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 220 kW (300 hp) vacuum pumps** deliver 2,200 kg (5,000 lb) of force to excavate the most challenging materials
- **8 m³ (10 yd³) of material storage** capacity
- **Removes up to 38 m³ per hour** (50 yd³/hr) combining powerful mechanical agitation and airflow
- **Powered manipulator arm** with nozzle can tilt 45° from vertical and reach 4.6 m (15 ft) 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 **+61 1800 059 955** or visit **LORAM.COM.AU**

SPECIFICATIONS

LORAM LTV SPECIALTY EXCAVATOR

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

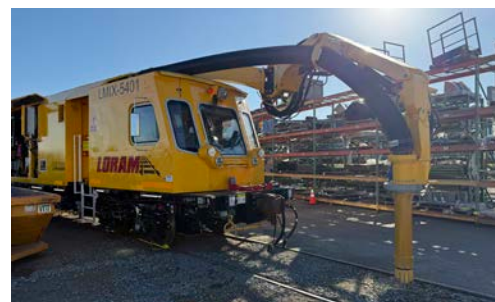
¹ Typical; subject to application and material conditions
Specifications subject to change

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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