



## LORAM RIV

### RAIL INSPECTION VEHICLE

#### Collect precise rail grind data easily.

The Loram Rail Inspection Vehicle (RIV) offers an efficient and cost-effective data collection technology solution for accurate rail profiling and grind planning. This hi-rail vehicle conducts pre- and post-grind rail profile and surface inspections using the vehicle-mounted measurement systems to automatically determine optimal rail grinding passes, patterns and speeds to ensure the precise amount of metal is removed and the proper rail profile is achieved.

Equipped with a state-of-the-art optical transverse rail profile measurement system plus Loram's Rail Pro® analysis, planning and management system, the RIV provides an efficient and accurate means for collecting rail profile, rail wear, gauge, and cant data for managing a rail grinding program. Automated inspection is performed at speeds up to 40 mph in virtually any weather condition with impressive accuracy to 0.005 in. across the railhead. Collected data is analyzed and mapped in real-time to exact track locations using milepost and a Differential Global Positioning System (DGPS)-based position locator. The quality of rail profile is measured and detailed inspection results are generated to help produce a grind plan based on the most accurate and timely data. All data can be saved for historical reference and trending.

The RIV, with its advanced suite of integrated measurement and analysis systems, is a proven solution for rail profiling in North America and locations worldwide.

#### FEATURES AT A GLANCE

- **Precise and cost-effective** rail grinding data collection solution
- **High-speed inspection productivity** up to 40 mph (56 km/h)
- **Accuracy** of 0.005 in. (0.127 mm) across the railhead
- **Advanced optical transverse** rail profile measurement systems
- **Capture of both** rail profile and surface conditions in one pass
- **Data mapped** to both milepost and differential GPS-based position
- **High-resolution** rail surface images
- **Proprietary Loram Rail Pro®** rail profile analysis, planning and management system

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 RIV RAIL INSPECTION VEHICLE

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Length	21.7 ft (6.6 m)
Width	8.8 ft (2.7 m)
Height	6.7 ft (2 m)
Weight	10,000 lb (4,500 kg) GVW
Track Gauge	Hi-rail equipped for appropriate track gauge
Working Speed	Up to 40 mph (56 km/h)
Accuracy	.005 in. (0.127 mm) across the railhead
Working Temperatures	-4° to 131°F (-20° to 55°C)

*Specifications subject to change*

### Loram RIV Standard Equipment:

- Crew cab pickup with cabin space for 3 personnel
- Hi-rail gear for appropriate track gauge
- Non-contact optical transverse rail profile measurement system
- Touch screen operating system
- Optical encoder
- Uninterrupted power supply and power inverter
- Storage for luggage, spare parts and tools
- Strobe and rear work lights
- Proprietary Loram Rail Pro® rail profile analysis, planning and management system with data mapping, grind quality control, data viewing and reporting capabilities
- 2- or 4-camera optical rail profile measurement system
- Rail surface monitoring system
- Able to inspect most rail locations including switch and level crossings
- Asset mapping



### Reliable Service and Support.

With a 60-year plus 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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