



The LaserTrain: Fully Eradicating Slippery Railways

The LaserTrain cleans the contact area of the train wheel at speeds up to 85km/h. This ensures optimal traction year-round. Laser pulses heat organic material on the track in nanoseconds. This material expands rapidly (ablation) and separates from the track, leaving behind a clean dry track.

Advantages

- ✓ Significant **reduction of flats spots** by preventing wheel slide;
- ✓ Significant **decrease in energy usage** (8-12%) by preventing wheel slip;
- ✓ Significant **reduction of delays** (average 30 sec. gain per stop) by improved acceleration and braking;
- ✓ A significant **increase in safety** (100% less SPADs due to slipperiness) by improved braking.

Key in the design has always been the laser safety of the product. For this, the LaserTrain is equipped with a LaserShield to minimize laser emission and optimize the airflow. It guarantees a safe for use system that can run continuously for multiple shifts a day

The fully automated system is protected by its advanced software, high-speed sensors and a GPS based geofencing system. The LaserTrain's high level of automation means no operator is required for the LaserTrain.



Specifications

- Containerized model mounted on a flatbed;
- Cleaning speed up to 85 km/h;
- 30mm minimum cleaning width per track side;
- High power pulse lasers with optics and cooling;
- Generator with tanks for 4-day continuous operation (6000 km);
- UPS with 8 hours back up power for safety and heating;
- 100% laser safe, no eye-wear required;
- Fully automated safety systems, no manual operations & no extra operator needed.

Offer

LPS currently offers two LaserTrain models:

- **42 km/h**: For cleaning dedicated lines.
- **85 km/h**: For cleaning nationwide networks.

Curious? Please visit our [website](#) for more material or contact head of sales Ben Medendorp directly via email at: ben.medendorp@lasertribology.com

