

OTG OWLS Track Geometry

"The Fast Track to a Safer and More Reliable Railway"

OTG - OWLS Track Geometry

OWLS Rail Wear | OWLS Rail Profile

A complete, non-contact measurement system for railways
- in accordance with EN 13848



Dedicated Measurement Vehicles

The system can be installed on vehicles operating with the sole purpose of performing track measurements. OTG has a solid track record of operating reliably in all weather conditions on such vehicles.



Maintenance Vehicles

When installed on construction vehicles OTG can report on the railway condition before and after maintenance actions, ensuring that the defect has been remedied and that traffic can safely be resumed.



In-service Vehicles

OTG can be operated remotely, which makes it easy to operate, even on in-traffic vehicles. Doing so makes it possible to track the condition of the railway over time, providing valuable data for maintenance planning.

A Safe and Reliable Railway

Keeping an overview of the track condition is essential for planning of necessary maintenance that ensures that a railway is reliable and safe. OTG can be used to monitor the condition of the track over time, providing indications of potential issues. In this way, maintenance efforts can be deployed in exactly the right place and at the right time. Several parts of the system can be installed on rail-borne construction machines, which means that a completed maintenance measure can rapidly be verified. In this way, the traffic can quickly be resumed after an interruption.



Safety

OTG can identify issues that need to be remedied before accidents, such as derailment, occurs.



Reliability

Deficiencies of the railway causes delays. OTG improves the preventive and remedial maintenance, contributing to the railway reliability.



Economy

The cost of preventive measures is lower than the consequential costs of disrupted traffic.



Credibility

Our products for measuring track quality meets the requirements stated by the European standard EN 13848.

Advantages

High Speed and Resolution

OTG delivers high-resolution data at speeds up to 300km/h.

Compact, modular, portable

The units are compact and can easily be mounted and moved between various rail vehicles.

IoT

Measurement data is available from the cloud. Upgrades, calibration, and status checks can also be performed remotely.

Proven and Robust Design

OTG can operate in all weather. The equipment is robust and well protected.

Measurement data

Always provided

- Longitudinal level
- Alignment
- Gauge
- Cant
- Twist
- Cross level
- Curvature

On request

- Calculation of rail wear
- Calculation of equivalent conicity
- Tools for trend analysis



Temporary OTG installation for validation of newly laid track



On permanent installations a fan system keeps the lenses clean



System Principles

The OTG platform uses lasers, optical sensors, and inertial measurement technology to obtain data from where the true path of the rails through space can be calculated.

Our technology has several advantages over traditional chord-based measurement platforms, such as avoiding mechanical wear and slack, easy and limited calibration as well as providing a solution to the wavelength issue that is inherent to chord-based measurements.

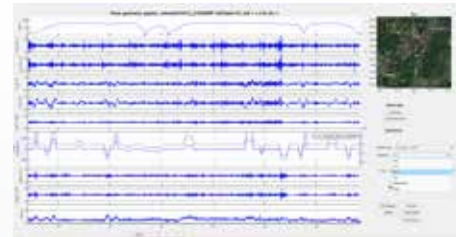


OWLS Overhead Line

In addition to track geometry, Latronix also provides measuring technology for the overhead line.

OWLS OHL Geometry measures the alignment of the overhead line to the rails. The measurement is contact-less and can be performed at high speeds.

OWLS OHL Wear measures the overhead line wear with high accuracy. The measuring system can monitor the width of the worn part of the contact line and thereby calculate the wear. It can also identify damaged sections.



Software

OTG Capture displays the most important measured properties in real-time. The program is used to start and stop measurements, make notes about collected data and monitor the status of the system. OTG Capture can be run both directly from the measuring vehicle and remotely on a PC or tablet.

OTG View is a powerful tool used for processing and analysing captured measurement data.

Learn more

We would love to hear more about your needs and discuss how OTG and OWLS can help you realizing a better railway.

Visit our website or contact us for more information.