

RAIL MEASURING TECHNOLOGY  
WHEN ACCURATE MEASUREMENTS MATTER



# EasyRail

**GEO Trolley**

## **EasyRail - GEO Trolley**

*High Accuracy continuous railway track measuring trolley for efficiently measuring rail wear, profile, track cant, track gauge and track twist. Expandable to measure other parameters.*

## Product description:

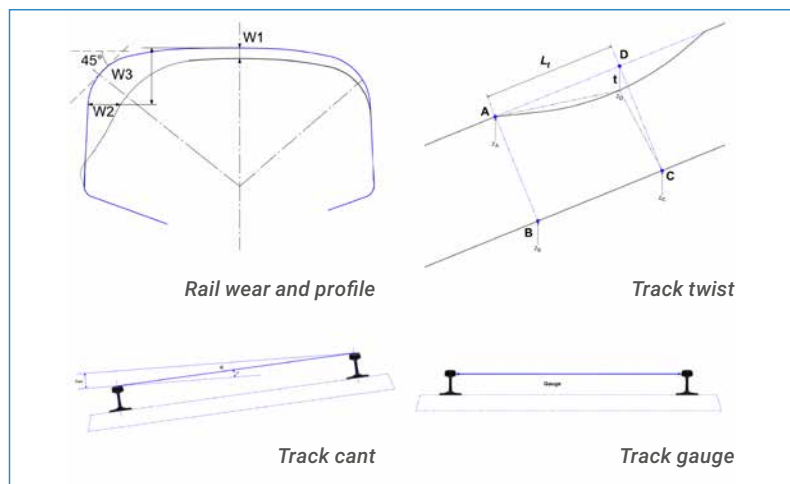
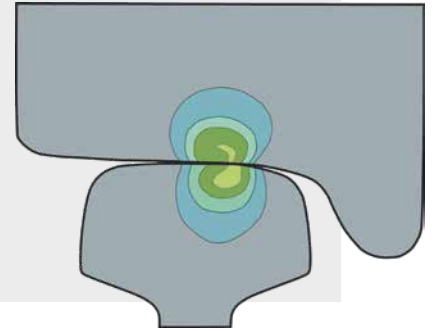
Monitoring of railway track parameters is important in terms of railway operating safety. Rails are perhaps one of the most expensive assets which railway systems need to maintain. Wheel rail interaction causes for rails to wear and in order to plan for efficient rail maintenance (including rail treatment and rail replacement if wear exceeds specified limits) accurate rail profile measurements are required to predict rail wear trends and to assess mobile rail treatment requirements (grinding and milling). The EasyRail GEO trolley is a compact and user-friendly combined track geometry, rail profile and wear inspection trolley which can be used on a variety of tracks and gauges.

## Applications:

- Monitoring of rail quality
- Detection of rail wear (W1, W2 and W3 values) and deformation
- Track gauge measurements
- Cant and Twist measurements

## Main characteristics:

- Measurements that are highly accurate and repeatable
- Relatively simple installation and setup
- User-friendly software for acquisition and review of measurement data
- Operation through notebook or tablet-pc
- Robust yet light weight design
- Extensive product support



## TECHNICAL DATA EasyRail GEO trolley

|                                  |                                                                                         |                                                          |
|----------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|
| Interval at which data are saved | 0.1-0.5m                                                                                |                                                          |
| Measuring speed                  | Walking speed<br>(alternative towed behind a trolley)                                   |                                                          |
| Environment temperature          | -5 to +45degrees                                                                        |                                                          |
| Accuracy                         | +/-0.1mm<br>+/-0.5mm<br>+/-1.0mm<br>(calculated) +/-3.0mm                               | Rail profile<br>Track gauge<br>Track cant<br>Track twist |
| Laser                            | Class 2M                                                                                | Red Laser                                                |
| Output compatibility             | EN 13231-2 2020 and equivalents<br>EN13848-4                                            | Rail profile<br>Cant-Gauge-Twist                         |
| Parameters measured              | Rail profile, Head wear (W1), Side wear (W2-W3) Track gauge, Track cant and Track twist |                                                          |
| Rail Profiles                    | Any                                                                                     | Based on customer supply                                 |
| Requirements                     | 24VDC battery is supplied with the instrument                                           |                                                          |