

RAIL MEASURING TECHNOLOGY
WHEN ACCURATE MEASUREMENTS MATTER



EasyRail+

Rail Corrugation, Wear and Profile

*EasyRail+ - Rail Corrugation, Wear & Profile
measuring trolley*

*High Accuracy Rail Corrugation, Acoustic
roughness, Wear and Profile measuring
trolley based on optical Laser technology*

Product description:

Rails are perhaps one of the most expensive assets which railway systems needs 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).

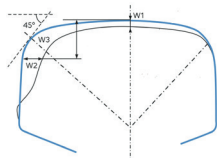
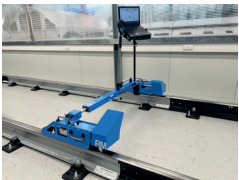
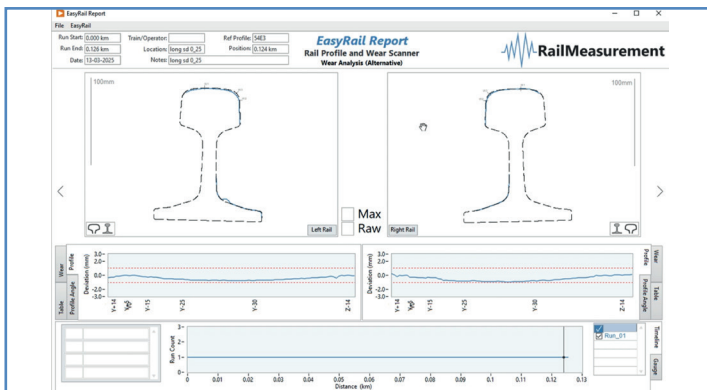
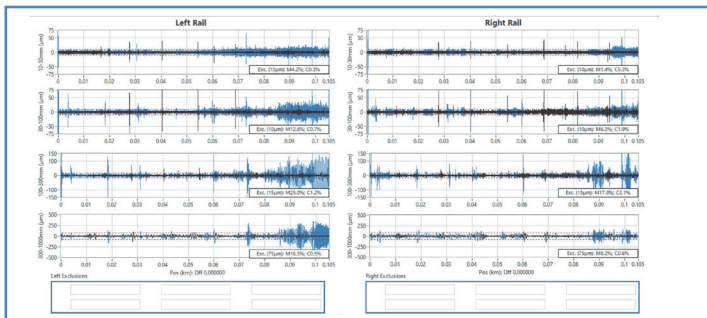
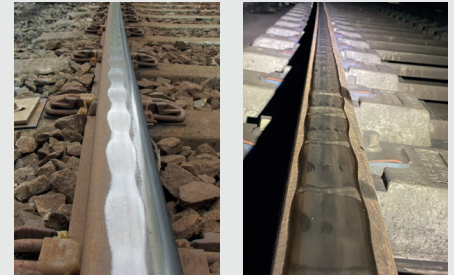
The EasyRail+ trolley is a compact and user-friendly rail corrugation, acoustic roughness, profile and wear inspection trolley which can be used on a variety of tracks and gauges.

Applications:

- Monitoring of rail quality
- Detection of rail wear (W1, W2 and W3 values) and deformation
- Detection of corrugation and acoustic roughness
- Detection and classification of both short and long waves
- Assessment of mobile rail treatment results e.g. rail grinding and milling

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+ trolley

Interval at which data are saved	0.1-25m 1 or 2 mm	Wear and profile Corrugation and acoustic roughness
Measuring speed	0-15kph	
Environment temperature	-5 to +50 degrees	
Accuracy	<0.08mm 0.1µm RMS 10-30mm 0.2µm RMS 30-100mm 0.2µm RMS 100-300mm 0.2µm RMS 300-1000mm	Rail wear and profile Rail corrugation and acoustic roughness 300-1000mm (repeatability)
Laser	Class 2M-3R	Red laser
Output compatibility	EN 13231-2 2020 and equivalents Raw and filtered displacements, moving average amplitudes, percentage exceedances, one third octave spectra	
Parameters measured	Rail profile, Head wear (W1), Side wear (W2-W3) Corrugation and acoustic roughness	
Rail Profiles	Standard or customized	
EN standards	EN13231:2020 EN3095:2025 EN15610:2019	