

TRACK GEOMETRY & VOID MONITORING

Need to monitor track geometry changes and/or track bed stability?

Railmonitor's Digital Service Platform and RM-1 sensors deliver real-time insights on cant, twist, and voids during train passage, providing a complete track health overview:

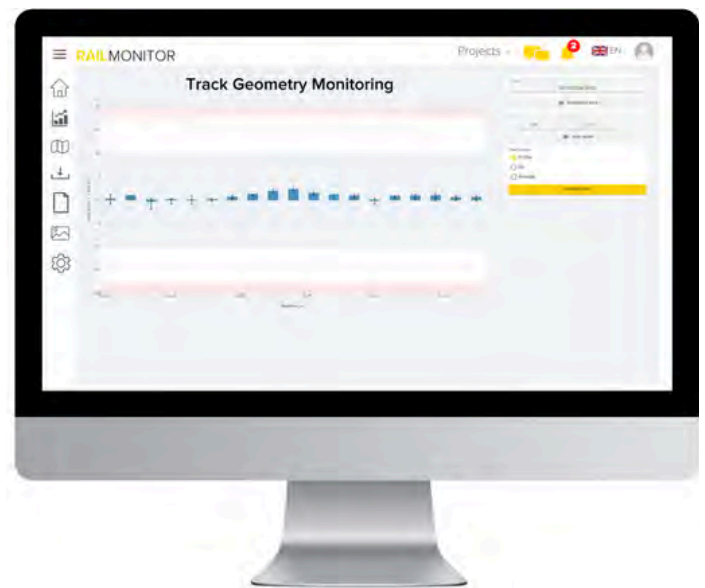
- 7-Day Foresight Lens
- Proactive insights
- 24/7 Real-time alerts & notifications
- Behavioral Notifications
- Ensuring prompt actions to mitigate risks
- Maintaining safety
- Powered by our Digital Service Platform

Track Geometry & Void Parameters:

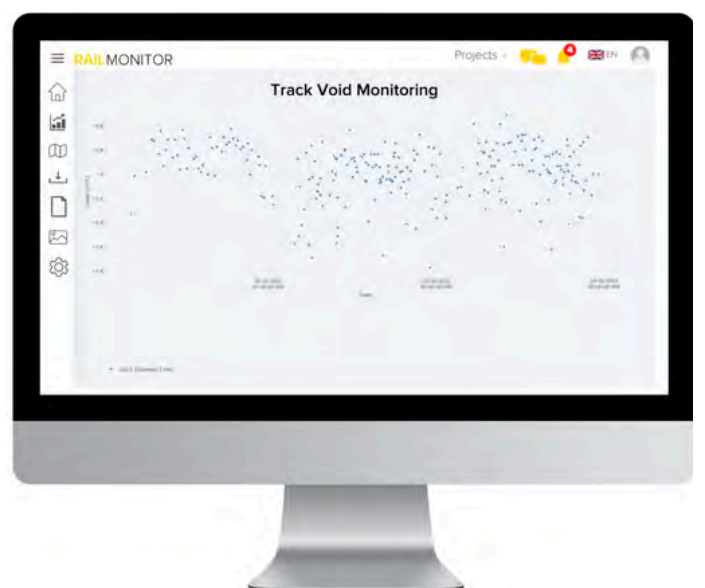
- Track Geometry (cant, twist, bend)
- Void Detection (reflection during train passage)
- Adaptive Wake-Up & Interval-Based Monitoring
- Precision and Reliability
- User-Friendly Application

Benefits and Value

- Co-created with infrastructure owners
- Instant and reliable notifications
- Reduce maintenance costs
- Improve operational efficiency
- Easy to install



Overview of transmitted track geometry data



Overview of transmitted void data

PRODUCT SHEET

TrackBed³⁶⁰[®]
Series 



KEY FEATURE

Modular Flexibility: Our solutions are fully modular, allowing seamless integration with features from the TrackBed360 Series, TrackSwitch360 Series, and Climate Monitoring Solutions.

Recommended Integrations:

- Pair with TrackBed360 for temperature monitoring to detect potential displacements & track movements.
- Use with TrackSwitch360 to optimize switch heating, activating only as needed to enhance energy efficiency and operational effectiveness.

TECHNICAL SPECIFICATIONS

- Wireless & Battery powered
- Battery lifetime, 2 years - measurements every 30 minutes
- Notification by SMS/E-mail
- Measurement Accuracy: Track geometry to +/- 0.1mm; void measurement up to +/-0.5mm movement
- Site temperature reports including inspection log is automatically generated
- Adaptive Wake-Up Function: Activates as trains approach, gathering precise, relevant data in real-time while conserving energy.
- Configure track geometry monitoring intervals as needed (e.g., every 15 minutes) for tailored insights and continuous oversight.



Ready for more information on how our solutions can optimize your railway operations?

Reach out to our CSO Christen Gregersen.
+45 40 95 50 20
cg@railmonitor.dk