



Turnouts
and rails



Versatile
deployment



Can also be used during short
track possessions (fast off-railing)

*Co-developed
with
Fraunhofer IKTS
Dresden*

Ultrasonic Rail Tester SoniQ Rail Explorer (SRE)

Technical Datasheet

SoniQ Rail Explorer (SRE): Exact detection and location of rail defects

Developed in collaboration with Fraunhofer IKTS in Dresden, the ultrasonic rail tester Soniq Rail Explorer (SRE) detects internal irregularities resulting from track operations as well as rail base corrosion and volumetric defects. The data is displayed using B-scans and camera images, and transmitted directly to the office. The findings can be incorporated into digitalized process chains.



Benefits

- / Detects subsurface irregularities, volumetric defects in the rail head, web and base as per DIN EN 16729-1 as well as rail base corrosion
- / Easy to use
- / Ultrasonic system with 10 pulser channels
- / Multiple ultrasonic views including synchronized A-scans and B-scans
- / Rugged tablet PC
- / Camera (optional)
- / Tracking system to provide location information
- / Higher standard of information thanks to Augmented Reality and Artificial Intelligence (optional)

Applications

- / For rail network operators, rail infrastructure and maintenance service providers
- / For pinpointing defects, regular inspections on short track sections, switches, level crossings and railways stations
- / No interference with switching equipment
- / Can be used during short track possessions
- / Can be used by EN 1 inspectors or higher
- / Software supports different rail profiles
- / Based on all the applicable standards and technical regulations of the railway industry



Global expertise
in over 100 countries

