

SRS SafeRailSystem

The fastest rail bourne system for railway ballast inspection



The integrated solution for autonomous railway ballast inspection with a high acquisition speed, fast processing and automatic data interpretation

IDS GeoRadar: The Leader in Multi-frequency and Multi-channel Ground Penetrating Radar

www.idsgeoradar.com

Stream X

The easiest way to capture underground utility assets

SRS is an integrated radar array system specifically designed for the inspection of railway ballast quality and to aid with the restoration and maintenance process. SRS offers a non-destructive train mounted solution which can be operated at high speed (over 300km/h), doesn't require crews working on the track and doesn't entail line temporary closures. It provides a continuous inspection of ballast thickness, locates areas with insufficient bearing capacity, differentiates between clean and fouled ballast and detects sections with drainage problems.

SRS SAFE RAIL SYSTEM BENEFITS

- Improved track maintenance decision making.
- Increased rail network management profitability due to continuous monitoring.
- Cost reductions in track investigation procedures, maintenance and renewal operations.
- **Easy interpretation** of ballast status through the use of automatic tools.
- Minimized survey time due to high-speed GPR solution.



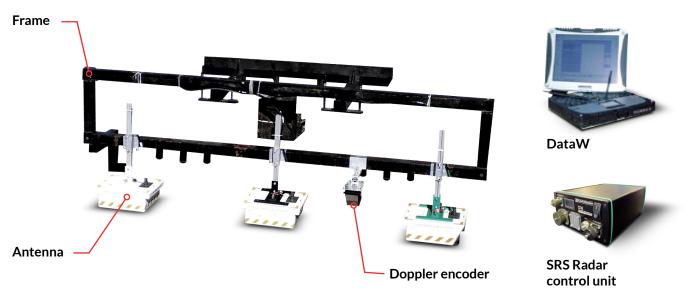
Road-rail vehicle equipped with SRS

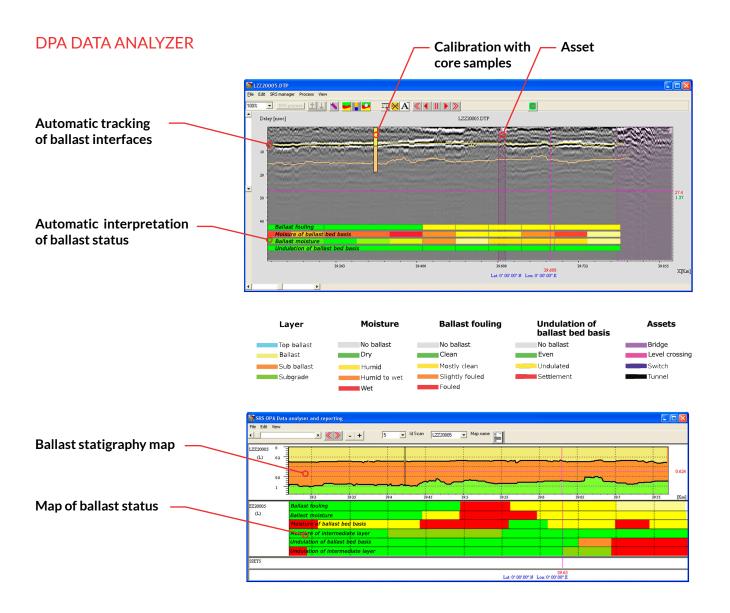
SRS SAFE RAIL SYSTEM FEATURES

- **High speed:** The SRS ground penetrating radar for ballast inspection can reach more than 300 Km/h with 12cm scanning steps.
- **Dedicated post processing platform:** Dedicated post processing software will guide the user through the interpretation of the data and detection of subsurface layers in a semi-automatic way.
- Video Camera and GPS: The SRS solution can be integrated with a video camera, GPS and a Doppler radar encoder in order to provide the exact location of a scan and save time in post processing.



 $\ensuremath{\mathsf{SRS}}$ configured with antennas beneath the train











IDS GeoRadar

IDS GeoRadar, part of Hexagon, provides products and solutions, based on radar technology, for mining, civil engineering and monitoring applications. The company is a leading provider of Ground Penetrating Radar (GPR) and Interferometric Radar solutions worldwide.

IDS GeoRadar is committed to delivering best-in-class performance solutions and to the pursuit of product excellence, through the creation of application-specific, innovative and cost-efficient systems for a wide range of applications including mining, utility detection and mapping, civil engineering, geology, archaeology and public safety.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 23,000 employees in 50 countries and net sales of approximately 4.3bn EUR.

Learn more at hexagon.com and follow us @HexagonAB.

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