mPOM

Precise positioning and automated work documentation for track maintenance machines

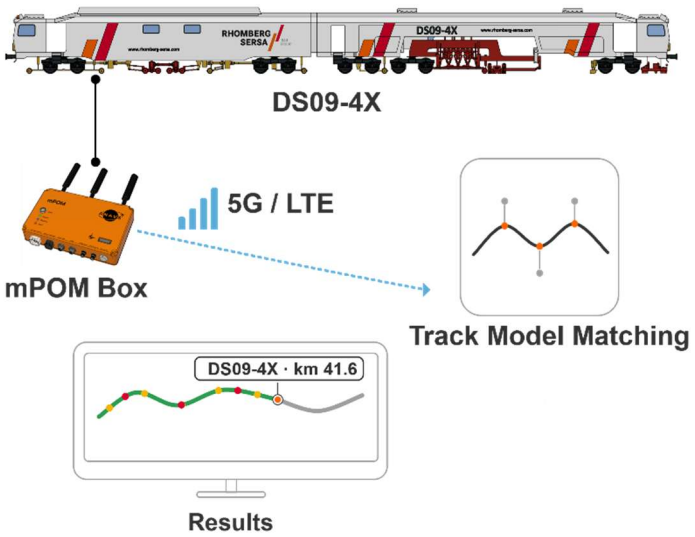
Product description

mPOM (mobile Positioning of Maintenance Work) automatically records where, when and what work has been carried out by a track maintenance machine. The system replaces manual work reports with digital, position-accurate documentation.

To determine the position, mPOM combines GNSS and RTK with inertial sensors and odometry. This enables continuous positioning even when satellite reception is limited or unavailable, for example in tunnels. The typical positioning accuracy within the track topology network is ±1 m.

The recorded data is automatically assigned to the correct track and exact kilometre position. Each run therefore generates a georeferenced work dataset. This data can be integrated into existing asset management, GIS or measurement systems or displayed in a dashboard. Machine measurement data, such as rail profile data, can also be linked to the position.

mPOM is a product of the Swiss Federal Railways (SBB). It is developed and distributed by ARGE SAR, a partnership between Rhomberg Sersa Rail Machine AG and ANavS GmbH. The system is already in operational use on tamping, rail grinding and rail milling machines.



Our services

- Delivery and installation support on track maintenance machines, regardless of the machine manufacturer
- Operation of the positioning backend, including alignment with your track model and topology
- Provision of position and work data to your GIS, asset management system or measurement database
- Dashboard showing the machine position in near real time, as well as a historical, filterable view of completed work
- Commissioning, support and maintenance throughout the agreed contract period

Your benefits

- Automated work documentation – no manual work reports
- Every run is assigned to the correct track and exact kilometre position, enabling correlation with measurement and condition data
- Degradation trends can be compared with the work actually carried out
- Skipped sections and sections worked on more than once become visible
- Work and transport runs are automatically distinguished
- Can be retrofitted to machines from any manufacturer

Contact

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