RAILWAY SYSTEMS
by voestalpine



KEEP YOUR SWITCHES MOVING – MANUFACTURER SUPPORT FOR YOUR SWITCH MACHINES

Maximise availability. Minimise risks.

voestalpine Signaling
www.voestalpine.com/railway-systems

voestalpine
ONE STEP AHEAD.

QUALITY THAT DELIVERS AVAILABILITY

In a demanding railway environment, professional maintenance is key to ensuring high system availability. Through professional overhauls at the manufacturer's facilities, technical upgrades and digital condition monitoring, we increase the availability of your switch machines and create the basis for predictable, condition-based maintenance. For railway infrastructure you can rely on, backed by proven quality and smart options for the future.

The fact is: Professional servicing, modern retrofit solutions and digitalisation extend the service life of your switch machines and enable condition-based maintenance strategies, increasing the efficiency of your switch setting systems.

With our maintenance and periodic inspection services, you benefit from professional maintenance in accordance with BOStrab (§57), combined with tangible operational advantages:

- **Reliable turnaround time:** With an agreed scope of service, the lead time is 60 days.
- **Maximum asset availability** through precise maintenance in accordance with manufacturer specifications.
- **Reduced susceptibility** to failures based on comprehensive system expertise.
- **Predictable maintenance costs** instead of unexpected expenses.
- **Increased safety** through verified processes and original parts.
- **Reliable quality,** including a 24-month warranty following maintenance at the manufacturer's facility, regardless of the asset's previous condition.
- **Maximum operational safety, availability and sustainable asset performance** in accordance with the requirements of BOStrab (§57).
- **Fully documented services** in line with the highest quality standards.



Manufacturer Service

- 1:1 service: Professional switch machine overhauls performed directly at the manufacturer's facilities in Sainerholz, Germany, or Zeltweg, Austria.
- 2-year warranty after overhaul, regardless of the age of the switch machine.
- Optional retrofitting of locking devices or detection levels.
- Original manufacturer parts and comprehensive inspection documentation.
- Functional enhancement with zentrak DIGITAL TOUCHPOINT.
- Optional upgrade to the latest technical standard.
- Digitalisation options to enhance functionality and increase asset availability.

Digitalisation-Options

- Fully integrated digital condition monitoring with zentrak SWITCH CONDITION MONITORING.
- Optimized maintenance management with zentrak DIGITAL TOUCHPOINT.
- zentrak ASSET & MAINTENANCE MANAGEMENT supports digital maintenance strategies.

On-site Maintenance and Periodic Inspection

- Documentation



More than Maintenance: Greater Efficiency through mdoernisation

Professional service goes beyond maintenance.
Our targeted modernisation and digitalisation solutions help you sustainably improve the performance of your railway infrastructure:

- Retrofits and technical upgrades to extend asset service life.
- Fully integrated digital condition monitoring with zentrak SWITCH CONDITION MONITORING.
  - 24/7 transparency of asset condition.
  - Optimised maintenance cycles and reduced lifecycle costs.

From Reactive to Predictive

zentrak SWITCH CONDITION MONITORING, the intelligent switch diagnostic system, responds to the changing requirements of rail networks worldwide. It enables impending failures to be detected at an early stage, allowing maintenance teams to act before availability is affected. For you, this means:

- Early detection instead of unexpected failures.
- Higher network availability through condition-based maintenance and fewer on-site interventions.
- Better resource planning.
- Data-driven maintenance to sustainably reduce lifecycle costs, support higher operational reliability and enable smarter decisions.

For this purpose, the switch machine can be equipped with state-of-the-art sensors as part of the overhaul at the manufacturer's facility. The acquired measurement data is analyzed to provide valuable information about the asset condition and upcoming maintenance requirements. This enables comprehensive monitoring of the switch machine and, consequently, the switch, supporting the diagnosis and early identification of potential failures.

The ultimate goal is to reduce or replace conventional maintenance requirements wherever possible. Optimised maintenance planning helps reduce lifecycle costs (LCC) while increasing asset availability.

zentrak - Your Solution for Monitoring, Asset and Maintenance Management

The intelligent zentrak ecosystem combines monitoring with asset and maintenance management, providing valuable condition information to support optimised asset management and efficient maintenance planning.

With zentrak ASSET & MAINTENANCE MANAGEMENT, you can take your railway infrastructure to the next level. The advanced SaaS solution transforms unstructured asset and maintenance data into valuable decision-making insights.



„By digitally mapping the asset structure and implementing a tailored maintenance strategy, unexpected failures can be prevented with zentrak ASSET & MAINTENANCE MANAGEMENT. Standardized documentation ensures greater reliability throughout the entire lifecycle of your railway assets."

Theresa Passath, Head of Business Development & Sales, voestalpine Digital Track Management GmbH

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