



TURNOUT & TRACK INSPECTION

Safeguarding against derailment and ensuring a long Service Life for the superstructure

Description

Traffic interruption caused by technical defects on the railway infrastructure causes financial damages to the railway operators. Derailments destroy expensive rail infrastructure and can cause serious injury or death.

Periodic and precise inspection keeps the railway infrastructure in good conditions and helps to avoid negative & unforeseen impacts.

Once a year the railway infrastructure can be inspected with our full automated inspection vehicle FELIX.

This prevents the rail infrastructure from unexpected damage and ensures a long service life for the superstructure.

On the basis of every individual situation, we inspect your superstructure and prepare recommendations based on the results of our inspection.

Benefits to the customer

- » Professional inspection keeps the railway infrastructure on a high quality level
- » Increasing track availability
- » Extension of the service life of the infrastructure
- » Gaining sustainable knowledge about the status of the railway infrastructure
 - ┌ Status report of the current railway infrastructure
 - ┌ Overview about the need of maintenance measures
 - ┌ Recommendation for repair cost & investment cost
- » Systematic documentation enable the operator to predict future defects and maintenance activities



INSPECTION

To ensure a high quality level of the track, regular inspections of the turnouts and tracks should be carried out. These inspections are based on our longterm knowledge as producer of turnouts, rails and signaling components.

TURNOUT & TRACK INSPECTION

In coordination with your maintenance team we are carrying out the following inspections

Turnouts:

- » Geometry of the overall turnout
- » detailed inspection of the components themselves:
 - ▮ switch device (tongue rails and stockrails)
 - ▮ intermediate and running rails
 - ▮ crossing
 - ▮ check rail
 - ▮ base plates
 - ▮ fastening system
 - ▮ sleepers
- » Drive locking detection in turnouts

Track:

- » Gauge, cant, twist of the track
- » rail defects
- » Fastening system
- » Sleepers
- » Drainage system

Other components in the track:

- » Insulated rail joints, buffer stoppers and rail expansion joints

Standard inspection is carried out with hand measurement devices.

Inspection technologies

Depending on the customer needs the standard inspection can be extended with further electronic inspections:

- » detailed continuous geometrical and 3-D inspection with our measurement vehicle FELIX
- » ultrasonic inspection

Reporting

The results of the measurements are reported in a checklist and summarized for the client in a report, including recommendations for further steps.