



Vossloh Services France



Complete rail and points & crossings upkeep
Expertise, Maintenance, Repair
Training, Spare parts

Vossloh Services France, the maintenance specialist

Vossloh is a leading international railway infrastructure company. The group designs and manufactures switch systems, builds rail maintenance machinery and offers a wide range of services throughout the rail infrastructure product lifecycle. Vossloh Services France has extensive experience in the management and maintenance of railway networks.

Rail grinding and milling for preventive and corrective maintenance of high-speed and conventional rail lines, urban networks and points & crossings.

- ▶ **Grinding** during commercial traffic with patented high-speed grinding (HSG) technology (up to 80 km/h).
Low-noise grinding.
Recommended technology for acoustic grinding.
- ▶ **Milling** to restore rail profiles and remove severe defects:
over 10 years of experience in mobile milling.



References on numerous European and Asian networks

On-site services, extension of the service life of points & crossings: welding, build-up, grinding, repair

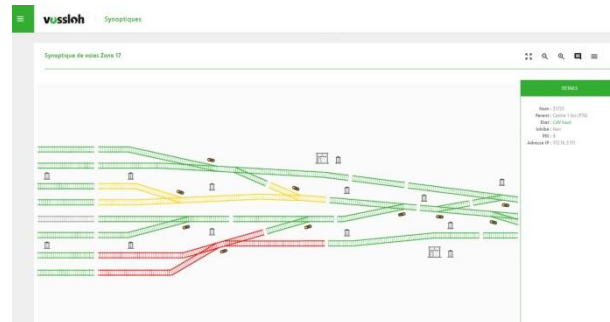


- ▶ Replacement and adjustment: spare parts for points & crossings (switch rails, rods, adjustment of security dimensions, signaling products) can be mounted on site and adjusted by our teams.
- ▶ Welding of grooved rails: IBE electric welding (IBE is a Vossloh patented procedure).
- ▶ Build-up by welding: repair of crossings, switches, specific areas.
- ▶ Flexis grinding system for entire turnouts, including switch points and crossings, with rapid on-railing and off-railing.
- ▶ Straightening of switch rails: wherever possible, deformed rails (accidental trailing, wear or other) can be straightened by Vossloh technicians with a special press machine to ensure safe operations.

Your partner for track and turnout management

Asset Management software (MR.pro®), expert services, maintenance recommendations

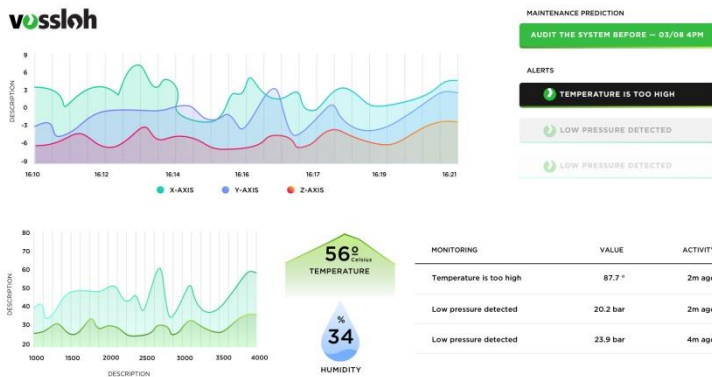
- ▶ **MR.pro®** is a software application for managing fixed railway installations (track and points & crossings) as well as for other specific elements: stops, level crossings, masts, signals, structures, buildings, buffer stops, etc.
- ▶ **Measurement services:** survey, track inspection, points & crossings and manoeuvring systems.
- ▶ **Data management:** reports, data processing, analysis, maintenance advice and assistance.
- ▶ **Planning:** initial analysis, Life Cycle Cost studies, maintenance strategies, services for optimised maintenance.



Optimised railway lifecycle!

Smart measurement tools, data recording, analysis, forecast, planning, verification and validation

Remote monitoring for predictive maintenance



Spare parts management

- ▶ Detailed catalogue
- ▶ Regularly updated technical sheets
- ▶ Rental of actuation systems
- ▶ Mechanism repair or restoration in the workshop

Tools and experts to provide the best maintenance strategy!

Training tailored to your network

For over ten years, more than one hundred clients have been trained in our Training Centre which offers annual programmes and an in-depth analysis of your training needs with various modules: "thematic", "tailored", "off-the-shelf" or "updated".

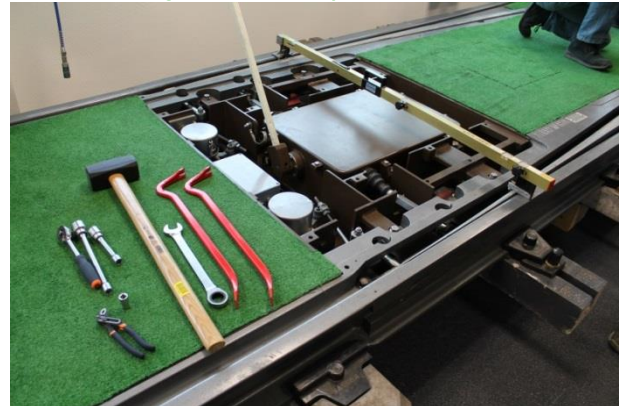
The Training Centre's goal is to provide information about products: usage, basic operations, processes, set-up of maintenance programmes that require product know-how, service concepts and tools.

- ▶ Accredited training centre: a customized programme for extensive knowledge of our products and services
- ▶ Tailored programmes about our products and concepts, suited to your needs
- ▶ Obtaining certifications and qualifications
- ▶ Training on mock-ups for every type of product and concept



A dedicated website
www.vossloh-training.net

At our training centre or on your network!



- ▶ **New "welding" programme**
 Improve preventive and corrective maintenance techniques for points & crossings

Augmented reality and virtual reality for training and maintenance

3D modelling of our products to create digital twins:

- ▶ Easy access to contextual data
- ▶ Image overlap of data in real time
- ▶ For in-depth product knowledge
- ▶ Faster and more reliable assistance
- ▶ Tailored to your perception of the product

