



Episode 2

ERTMS Trackbot at InnoTrans

#2 ERTMS Trackbot at InnoTrans

At InnoTrans, we are proud to showcase the ERTMS Trackbot (by TRACKBOT), a collaborative project by Strukton Rail, No Man Trackwork, and AMT RailRoad. This innovation was developed under the #ASAP-ERTMS initiative and the #IAM4Rail project, part of Europe's Rail framework #EU_Rail.

In the line-up of the InnoTrans we publish a series of posts about the background of this interesting development. Today the episode #2 about the Trackbot and the Deployment and Market Exploitation.



About the ERTMS Trackbot

The ERTMS Trackbot (by TRACKBOT) is a rail vehicle designed for the automated installation of balises and axle counters. It operates by loading a file that provides precise instructions on the placement of each component. Before any installation, the Trackbot verifies that the track is out of service to ensure safety. It then navigates to the designated location, scanning the track upon arrival to identify the best sleeper for installation near the GPS-indicated spot. After selecting the sleeper, the robot identifies the drilling zone, drills the necessary holes, installs chemical anchors, and mounts the balise. Upon completion, the machine logs the type of plate used, reads the balise message, generates a point cloud, and dispatches the installation documentation.

The Trackbot is powered by batteries, promoting quiet and clean operations. The robot technology minimizes the need for onsite technicians and accelerates the deployment process.

Deployment and Market Exploitation

Strukton Rail is set to integrate the Trackbot into its operational processes. The involvement of No Man Trackwork and AMT RailRoad is crucial for the market rollout and ongoing development of similar innovations in the rail sector. This partnership not only capitalises on each organisation's strengths but also enhances the Trackbot's potential for broader application in railway maintenance and safety, driving forward the automation and efficiency of rail systems.

The development of the Trackbot is supported by the innovation programme Europe's Rail Joint Undertaking #EU-Rail.