



Episode 5

ERTMS Trackbot at InnoTrans

#5 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 back ground of this interesting development. Today the episode #5 about AMT RailRoad.



ERTMS Trackbot in brief

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. See episode #1 for more background.

AMT RailRoad

AMT RailRoad has been leveraging robotics for years to enhance industrial production processes, particularly through the integration of robots in production lines.

The rationale for employing robots in industry parallels that in railway construction: the scarcity of skilled labour and the high associated costs. Consequently, AMT RailRoad, in collaboration with No Man Trackwork, has initiated the application of robotic technology in railway construction and maintenance.

Implementing robotic technology in outdoor environments presents unique challenges due to the less controlled conditions compared to industrial settings. Nevertheless, AMT RailRoad, in partnership with No Man Trackwork, has successfully developed the Trackbot for Strukton. Utilizing vision systems and AI, this Trackbot can place balises and axel counters on sleepers with reduced labour costs. This innovation complements the other new and retrofitted railroad machines produced by AMT RailRoad.

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