

A yellow Geismar rail inspection vehicle is shown on a track, moving away from the viewer. The vehicle has 'GEISMAR' written on its side. The track curves to the left, and there are other tracks and infrastructure in the background under a cloudy sky.

Media release

Approval tests in Ireland: PJM tests rail inspection vehicles from Geismar Italia S.p.A.

Graz, July 2023: Geismar Italia S.p.A had two types of rail inspection vehicles tested for use on the Irish rail network. For this purpose, the internationally renowned manufacturer of track construction machines had appointed PJM. As an accredited test center according to ISO/IEC 17025, PJM carried out approval tests in the areas of running behavior, brakes and acoustics. The tests to evaluate running characteristics were completed in accordance with EN 14363. For brake technology approval, the static and dynamic tests took place according to EN 14033. The acoustics measurements were performed according to TSI Noise 2014/1304/EU. The project will be completed in the course of the summer.

The two rail inspection vehicles are of the type „Track Recording Vehicle VMB“ and an „Ontrack Inspection Car“.

A particularly interesting aspect of this project was that Ireland, as a member state of the EU, has to apply the European regulations, but the Irish railroad system differs considerably from that in continental Europe. For example, the track gauge in Ireland is 1,600mm instead of the standard gauge of 1,435mm. It is therefore necessary to apply the respective sets of rules, taking into account the specific conditions in Ireland. „The deep understanding of the railway system available at PJM was very helpful here, and it was thus possible to demonstrate compliance with the requirements from the sets of rules under the special boundary conditions in Ireland,“ summarizes Martin Joch, CEO of PJ Messtechnik GmbH.

PJM at a glance

PJM is an internationally renowned system specialist for rail transport and has successfully implemented projects in 30 countries on 6 continents.

As an accredited test center according to ISO/IEC 17025, PJM Messtechnik GmbH carries out tests worldwide for the approval of rail vehicles in the areas of running technology, strength, braking, acoustics and aerodynamics. These include, for example, the Mountaineer in Canada, the regional train TILO, the suburban trains in Berlin and in Rhyad or the metros in Barcelona, Chicago and London.

PJ Monitoring GmbH is a technology leader in rail freight automation with forward-looking comprehensive solutions. Its innovative solutions and technologies have won 9 awards, including the State Award for Engineering Consulting, the ERCI Innovation Award and the RailTech Innovation Award.

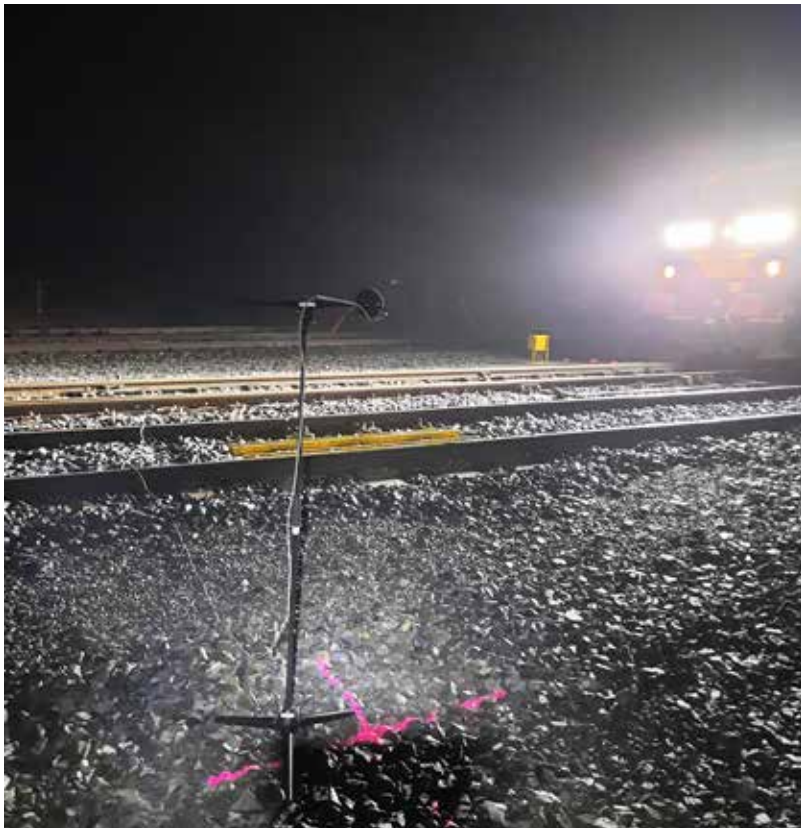
PJM was founded in 2006. More than 60 employees at the Graz site ensure „100% Made in Austria“. R&D, hardware and software development, production & administration come exclusively from Austria.



ISO/IEC 17025 accredited systems specialist PJM conducted the testing of two rail inspection vehicles for Geismar Italia S.p.A in the areas of running behavior, brakes and acoustics in Ireland.

Credit: PJM, free of charge





Acoustic measurements according to TSI NOI 2014/1204/EU were used to investigate pass-by noise, rail roughness and decay rate. Acoustic measurements according to TSI NOI 2014/1204/EU were used to investigate pass-by noise, rail roughness and decay rate.

Credit: PJM, free of charge



The acoustic measurements also include the evaluation of noise development in the interior in terms of occupational health and safety.

Credit: PJM, free of charge