



Media release

PJM has established a new test area and has been accredited for pantographs

PJM's test center for rail vehicles now comprises 6 specialist areas

Graz, November 2024: PJM has expanded its scope as an accredited test center in accordance with ISO/IEC 17025 and now also tests the dynamic interaction between pantograph and overhead contact line. In addition to measurements in accordance with EN 50317, the accreditation also includes simulations in accordance with EN 50318, making PJM the only company in Austria with accreditation for the specialist area of pantographs.

Over the past two years, the Austrian system specialist has invested in the infrastructure of the new department. The pantograph test rig for calibrating the measuring system - as well

as the technical equipment for other areas - has been set up at the company's site in Graz. Extensive tests in the wind tunnel have proven that the measuring system is non-reactive. With the existing measuring equipment, tests can be carried out with up to two measuring pantographs, which means that multiple-unit operations can also be realised. The requirements for the interaction between pantographs and the overhead contact line system of the new service jet for ÖBB had been tested in summer (as announced in the media release: <https://pjm.co.at/wp-content/uploads/2024/06/PI-PJM-Servicejet-6-2024-DE-Web2.pdf>). In the coming weeks, the measurement technology team will

be testing another rail vehicle in single and multiple-unit operations.

'Due to decarbonisation, the focus will be on electric rail vehicles in the future. With its corresponding expertise and infrastructure, PJM is ideally positioned for the new specialist area,' says Martin Joch, CEO of PJ Messtechnik GmbH. With the new specialist area, PJM offers several advantages for clients, such as the efficient sequence of the various tests for rail vehicles. The expertise in the area of simulations offers particular added value: *'Simulations significantly minimise the testing effort for multiple tractions. Theoretical calculations allow the large number of variants to be reduced to relevant train combinations, which are then tested in dynamic track tests. This saves valuable time and reduces costs,'* says Martin Joch.

A total of 6 specialist areas are accredited: running characteristics, strength, brake, acoustics, aerodynamics and pantograph. In combination with comprehensive expertise in engineering and in the development and production of instrumented wheelsets, PJM has established itself as a reliable partner in the testing of rail vehicles all over the world and in the handling of overall rail vehicle testing. *'We have the size, expertise, stability and infrastructure to carry out rail vehicle projects worldwide,'* says Martin Joch.

The expertise of PJ Messtechnik at a glance

- Accredited test centre ISO/IEC 17025, test areas: running characteristics, fatigue strength, brakes, acoustics, aerodynamics, pantograph
- Engineering / design CAD, calculation FEM, simulation MKS / certification AAR WABL Committee

- Development & series production of instrumented wheelsets
- Autonomous measuring systems for rail vehicles and rail infrastructure

About PJM

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

As an accredited test centre in accordance with ISO/IEC 17025, PJ Messtechnik GmbH carries out tests worldwide for the approval of rail vehicles. These include the new Nightjet generation of ÖBB, the Rhaetian Railway, the Mountaineer passenger train in Canada, the TILO regional railway, the suburban railway in Berlin and the metros in Riyadh, Chicago and London.

With its WaggonTracker system, PJ Monitoring GmbH is a technology leader in the automation and digitalisation of rail freight transport. PJ Motion GmbH specialises in the authorisation and project management of track-bound vehicles.

PJM was founded in 2006. Around 75 employees at the Graz site ensure '100% Made in Austria': R&D, hardware and software development, production and administration are all based in Austria.

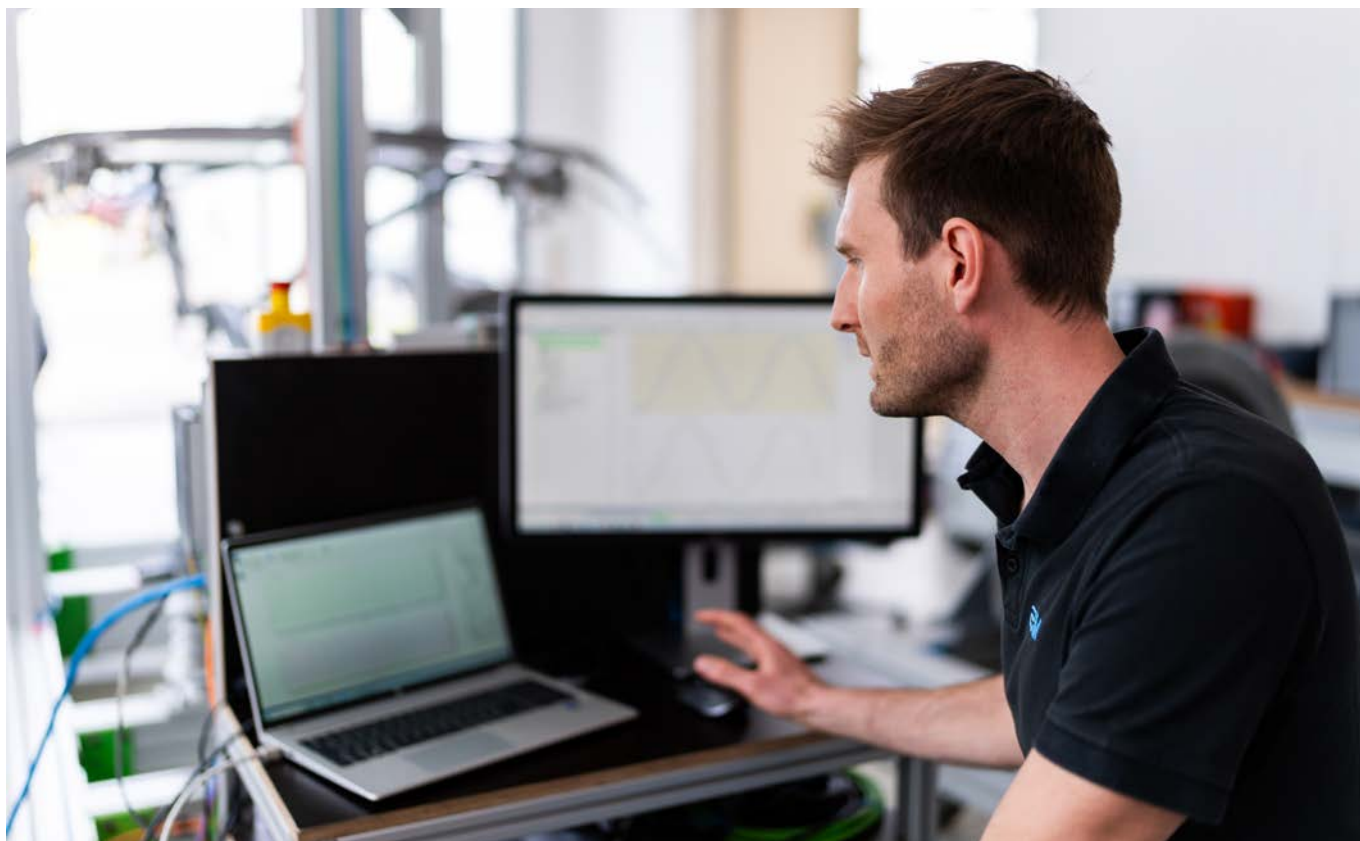
Further information: <https://pjm.co.at/en>

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PJM also carries out vehicle tests in the pantograph area. In addition to measurements in accordance with EN 50317, the accreditation also includes simulations in accordance with EN 50318.
Credit: Manuel Hanschitz for PJM, free of charge



PJM's ISO/IEC 17025 accredited test centre carried out the dynamic track tests of ÖBB's new service jet, among other projects. The vehicle tests also included the pantograph area.
Credit: PJM, free of charge