



PJM expands its headquarters and infrastructure with a new hall for measuring wheelsets

Specialized expertise on instrumented wheelset through the combination of measurement technology, certification and engineering

Graz, May 2024: PJM has expanded the company site and the infrastructure for the measuring wheelsets division. A new hall for the development and production of instrumented wheelsets was recently put into operation. This has taken the profound measuring wheelset experience to a new level in terms of equipment. The new part of the building was provided with a wide range of equipment to ensure the highest levels of precision, stability and standard in terms of measurement technology. Furthermore, the expanded infrastructure will enable even faster throughput times and project processing in future. The equipment includes, among others:

- Static test rig for instrumented wheelsets for all track gauges and calibration during test runs on site
- Facilities for the parallel production of 12 instrumented wheelsets
- Indoor crane
- ESD-protected working environment
- Air-conditioned room (to provide consistently ideal conditions, for example when attaching strain gauges)
- Dynamic test rig for the wheelsets' end-of-line testing
- Fine balancing according to ISO13260 limits

The extensive technical equipment is complemented by special knowledge on instrumented wheelsets. PJM combines measurement technology, experience as an ISO/IEC 17025 accredited test center and specialist engineering knowledge.

'The dovetailing of theory with practical testing experience is a great added value for our customers,' explains Martin Joch, CEO of PJ Messtechnik GmbH. He continues: *'The instrumented wheelset infrastructure guarantees the highest measurement quality for every phase and every requirement. In combination with our in-depth engineering know-how and our many years of experience in dynamic testing, we offer vehicle manufacturers a considerable portfolio of knowledge and services.'*

This makes PJM a strong partner in the field of measuring wheelsets:

- All processes and project steps relating to instrumented wheelsets are handled by PJM in-house and from a single source
- This also results in short cycle times
- Calculation, design, production, calibration and balancing
- Powerful telemetry system: Thanks to the extensive equipment, 12 measuring wheelsets can be operated simultaneously
- PJM offers solutions for every application and every wheel geometry (not just standard solutions)

PJM has already proven the successful interaction between engineering and instrumented wheelset technology on several occasions, including in a project for the Rhaetian Railway. Here, wheel-rail forces and buffer forces were determined in advance by means of simulations and then checked using measurement technology. Measuring wheel sets from PJM have also

proven themselves many times over in dynamic test runs, including for the new generation of ÖBB Nightjets, Indian Railways and the new ČD Viaggio Comfort passenger coaches. PJM has been developing and manufacturing instrumented wheelsets in Graz for 10 years.

About PJM

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

As an accredited testing laboratory 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 Canadian passenger train Rocky Mountaineer, the TILO regional railway, the suburban rail in Berlin and Riyadh and the underground railways in Chicago and London. With its WaggonTracker system, PJ Monitoring GmbH is a technology leader in the automation and digitalization of rail freight transport. PJ Motion GmbH specializes in the approval 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 come exclusively from Austria.

Further information: www.pjm.co.at/en

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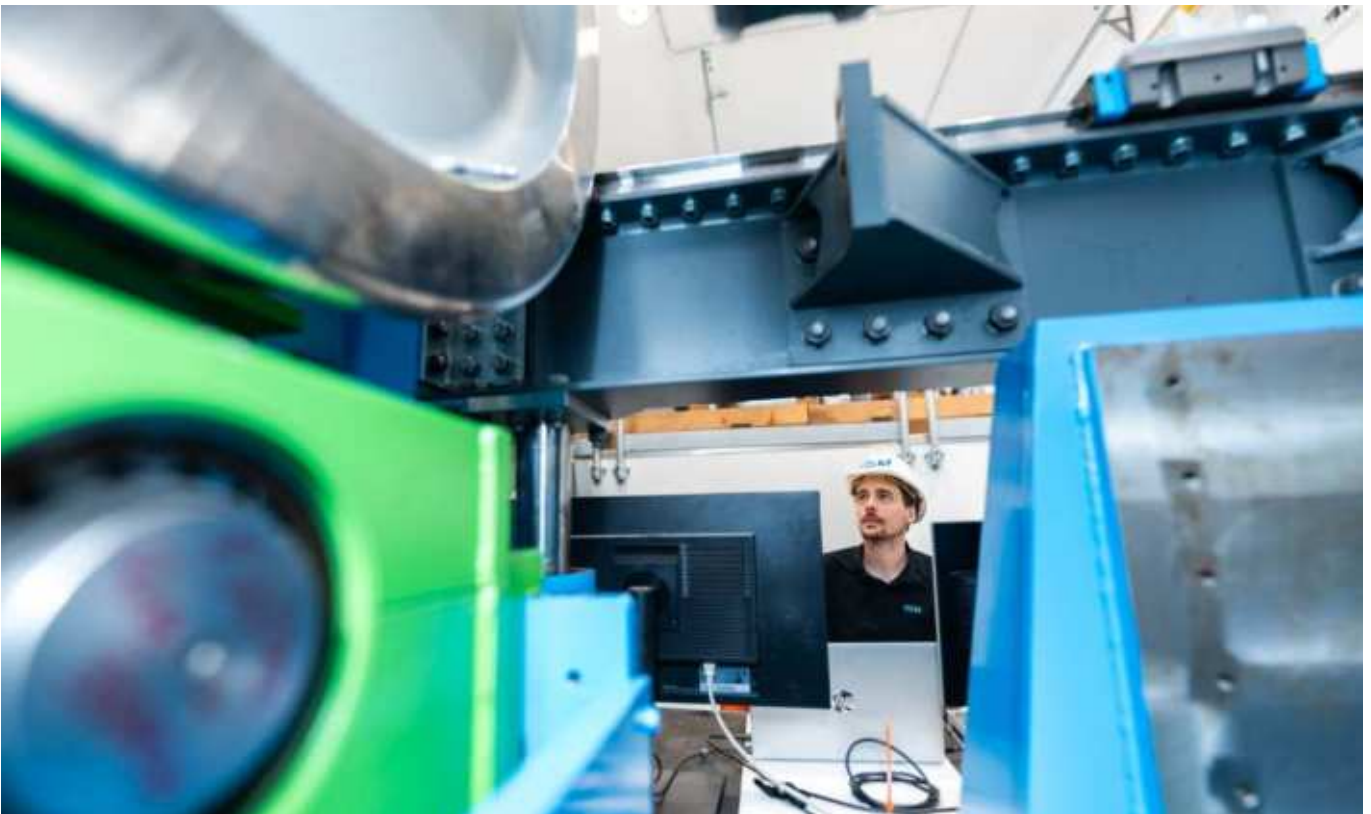
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*The infrastructure in the field of instrumented wheelsets includes a stationary test rig, a dynamic test rig and the corresponding technical equipment such as an indoor crane
Credit: Manuel Hanschitz for PJM, free of charge*



*Up to 12 measuring wheel sets can be manufactured at the same time in the new hall
Credit: Manuel Hanschitz for PJM, free of charge*



*PJM handles all processes and project steps relating to instrumented wheelsets in-house and from a single source: calculation, design, production, calibration and balancing
Credit: Manuel Hanschitz for PJM, free of charge*



*PJM is an experienced partner in developing and producing instrumented wheel sets. Among other rail projects, PJM measuring wheel sets were on board the new generation of ÖBB Nightjets, Indian Railways and the new ČD Viaggio Comfort passenger coaches.
Credit: Manuel Hanschitz for PJM, free of charge*

Dynamic test runs

Static test rig



Engineering

Mobile calibration rig

PJM's measuring wheelset expertise includes engineering, tests on the static and mobile test bench and supervision of dynamic tests

Credit: PJM, free of charge