



## Stronger together

PJM and Ingenieurbüro Rörden combine their expertise and found EMC Rail Services

*Graz, August 2025* – **Two industry experts are joining forces: Ingenieurbüro Rörden and PJM have launched the subsidiary EMC Rail Services GmbH. The German company is a specialist in EMC testing in the rail sector, and the Austrian company PJ Messtechnik is an established testing laboratory for rail vehicles. Now, they have bundled their expertise and thus create an even more powerful testing service. The focus of the newly founded EMC Rail Services are EMC measurements (electromagnetic compatibility).**

EMC tests ensure that electrical and electronic systems work without interference both in the vehicle (e.g. locomotive, wagon) and with the infrastructure (e.g. level crossing system, railway radio, signalling). This ensures that no unintended electromagnetic interference occurs and that the systems are protected from external influences.

Safety and operational reliability have top priority in rail operations. Electromagnetic interference must never trigger false signals or lead to the failure of critical systems such as brakes. At the same time, modern rail systems are becoming increasingly complex

and electronic. As a result, electromagnetic compatibility (EMC) is becoming important - and with it the need for testing services. This is where EMC Rail Services provides its services: Ingenieurbüro Rörden GmbH, based in Dortmund (Germany), is an ISO/IEC 17025 accredited test centre and has extensive know-how in measurement technology, approval support and technical testing in the field of electromagnetic compatibility (EMC). In addition, the company cooperates with technical experts.

PJ Messtechnik GmbH, based in Graz (Austria), is an accredited test centre confirmed by ISO/IEC 17025 standard for brake tests, vehicle dynamics, fatigue strength, aerodynamics, acoustics and pantographs. Furthermore, PJM has many years of experience in engineering and testing a wide variety of rail vehicles worldwide and provides a comprehensive market knowledge.

The partnership allows two testing laboratories to combine their service portfolios and pool expertise and resources, thus creating a clear advantage for customers. The focus is on the Austrian market as well as the neighbouring countries to the south and east. The new company's testing services include:

- Radiated electromagnetic disturbances
- Radio protection
- Human exposure
- Compatibility with track circuits
- Compatibility with axle counters / sensors

*„The cooperation via EMC Rail Services expands our range of services and includes a discipline that is becoming increasingly important for the*

*rail transport of tomorrow. The partnership will enable us to offer our customers even more comprehensive testing services from a single source in future,”* says Martin Joch, CEO of PJ Messtechnik GmbH and now also one of the two managing directors of the newly founded EMC. Udo Kappel from Ingenieurbüro Rörden and Managing Director of EMC says: *„We are increasing efficiency in project implementation, pooling resources and strengthening our focus on customer. With the new location in Graz, we are not only increasing our presence on the Austrian market, but also moving closer to our customers in neighbouring countries - from the Czech Republic to Italy and Croatia.“*

## **At a glance**

### **EMC Rail Services GmbH**

Founded in 2025 by Martin Joch and Udo Kappel, based in Graz, Austria. The business focus of is EMC measurements in the areas of radiated emissions, radio protection, personal protection, compatibility with track circuits and compatibility with axle counters and sensors.

### **PJ Messtechnik GmbH**

Founded in 2006 by Martin Joch and Günter Petschnig and based in Graz, Austria. PJ Messtechnik is an accredited test centre according to ISO/IEC 17025 and carries out tests worldwide for the approval of rail vehicles and is a specialist in engineering. PJM is an accredited test centre for six test areas: Running characteristics, strength, brakes, acoustics, aerodynamics and pantograph - in the latter area it is the only test centre in Austria.

## Ingenieurbüro Rörden GmbH

Founded by Uwe Rörden in 2008 as a partnership and managed in the legal form of a GmbH since 2010, the company is based in Dortmund, Germany. The company is an accredited test centre according to ISO/IEC 17025 and offers expert services as well as testing services for electromagnetic compatibility (EMC) in the railroad sector. This includes test planning and concepts as well as verification concepts, EMC tests, test reports and support approval bodies issues.

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*The two ISO/IEC 17025 accredited testing laboratories Ingenieurbüro Rörden GmbH (DE) and PJ Messtechnik GmbH (AT) have jointly founded the subsidiary EMC Rail Services GmbH. EMC focuses on electromagnetic compatibility (EMC) measurements in the Austrian market and neighbouring countries.*

*Credit: Ing.Büro Rörden, free of charge*



*The newly founded EMC Rail Services GmbH offers EMC measurements in key areas such as radiated emissions, radio protection, personal protection and compatibility with track circuits, axle counters and other sensor-specific systems.*

*Credit: Ing.Büro Rörden, free of charge*



*Udo Kappel, Managing Director EMC (left), credit: Ing.Büro Rörden, free of charge*

*Martin Joch, Managing Director EMC (right), credit: Manuel Hanschitz, free of charge*