



## Media release

# New service jet from Stadler for ÖBB: Test runs and instrumented wheel sets for the new rescue train provided by PJM

Graz, June 2024: ÖBB-Infrastruktur AG has procured a new fleet of rescue trains with 18 new service jets from Stadler. The low-emission and multifunctional vehicles will be in operation throughout Austria, travelling at speeds of up to 160 km/h. PJM was commissioned as an accredited test center in accordance with ISO/IEC 17025 for the test runs. The dynamic tests are being carried out in co-operation with the ÖBB mechanical measurement group. PJM was also responsible for the production and development of the instrumented wheelsets. The vehicle tests for the areas of running behavior, brakes, acoustics and pantograph will take place throughout Austria and are expected to be completed in autumn 2024. For unrestricted

track access in Austria, running dynamic tests were carried out in track sections 5c, for vehicle authorization for radius curves down to 100 metres. „The instrumented wheelsets were specially developed and manufactured for these requirements in very tight curves. Our wheelsets have proven themselves in the dynamic track tests,” says Martin Joch, CEO of PJ Messtechnik GmbH. The new generation of service jets required some innovations in the test runs. „Due to the new standard, these demanding tests were carried out on the ÖBB network for the first time. The results of the test runs are extremely precise and reliable and form a solid basis for evaluating the rail vehicle,” says test manager Roman Schmid, ÖBB Produktion GmbH.

The new service jets are designed for a wide range of applications. For example, they are equipped with modern firefighting equipment to carry out rescue and extinguishing work in the event of a fire. They can also tow trains or carry out maintenance work.

#### **Extract from the type test standards:**

- Running behavior according to EN 14363 & TS 17843
- Proof of safety against derailment
- Acoustics in accordance with TSI Noise & LOC&PAS, employee protection (VOLV)
- Brake UIC 544-1, EN 16834 and wheel slide protection EN 15595
- Pantograph according to EN 50317

#### **About PJM**

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

As an accredited test center 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 coach in Canada, the TILO regional railway, the S-Bahn in Berlin and

Riyadh and the underground railways in Chicago and London.

Due to the WaggonTracker system, PJ Monitoring GmbH is a technology leader in the automation and digitalization of rail freight transport.

PJ Motion GmbH has specialized in authorization and project management for 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 & administration come exclusively from Austria.

Further information about PJM:

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

Further information on the servicejet (in German language): <https://presse-oebb.at/news-vom-rettungszug-zum-servicejet?id=184279&menueid=27020&l=deutsch>

Video test runs:

<https://youtu.be/XXaOtXzuhto>

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*PJM has been commissioned for the dynamic track tests and instrumented wheelsets of the new servicejet, in co-operation with the "ÖBB measuring group".*

*Credit: Manuel Hanschitz, free of charge*



*The vehicle tests are carried out in the areas of running behavior, pantograph, acoustics and brakes.*

*Credit: Manuel Hanschitz, free of charge*



*For unrestricted access to the track network in Austria, tests were carried out in test zone 5c, for vehicle authorization for radius curves down to 100 meters.*

*Credit: Manuel Hanschitz, free of charge*



*PJM is an accredited test center according to ISO/IEC 17025 and carries out test drives worldwide.*

*Credit: Manuel Hanschitz, free of charge*