

Media release



Breathtaking scenery & winter conditions in Norway: **PJM is testing the Beilhack snow blower from Aebi Schmidt**

Graz, August 2025 – 80 tonnes packed with sophisticated technology and one of the most beautiful railway lines in the world - these are the ingredients for a vehicle test by PJM in northern Europe. The Austrian measurement technology specialist was commissioned to test the brakes and acoustics of the Schmidt Beilhack HB 1100S, which will be used by Bane NOR in the future.

The track tests for the brakes were carried out in accordance with TSI LOC&PAS:2024, EN14033-1:2014 and NNTR-NOR. The first tests took place between autumn 2024 and April 2025 in a wide variety of weather scenarios and included, among other things:

- Wheel slide protection tests to determine braking distance and braking performance in Holmenstrand
- Steep gradient track tests on the Flam Railway and further test runs between Finse and Voss. The Flam Railway is one of the most beautiful train journeys in the world and is one of Norway's main tourist attractions. From a railway engineering perspective, the gradient is particularly interesting: the maximum gradient is 55 ‰.

Furthermore, PJM was commissioned to carry out acoustic measurements for employment protection (health and safety requirements). These tests will be carried out in autumn.

„The Beilhack HB 1100S is a high-performance snow blower that we develop and manufacture on a project basis. The tests carried out by PJ Messtechnik provide us with the data required for approval and we gain valuable insights for the further development of these highly complex machines. The precise measurement results help us to further optimise performance, safety and reliability,” says Thomas Kaiser, project manager at Aebi Schmidt.

‘The tests for the approval of Aebi Schmidt’s high-performance snow blower are another project for PJM involving special rail vehicles and railway construction machines. In recent years, we have tested various well-known special vehicles for approval in many parts of Europe,’ says Martin Joch, CEO of PJ Messtechnik GmbH. *‘Our measurement specialists not only have years of experience in testing a wide variety of rail vehicles, but also with country-specific standards and specifications as well as international project management.’*

PJM’s fields of expertise at a glance:

- Accredited testing laboratory according to ISO/IEC 17025, in the areas of: brakes, acoustics, running characteristics, fatigue strength, aerodynamics and pantograph
- Engineering / construction CAD, calculation FEM, simulation MBS / certification AAR WABL Committee
- Development & manufacturing of instrumented wheelsets
- Autonomous measuring systems for rail vehicle and infrastructure

About Aebi Schmidt

The Aebi Schmidt Group is a global leader in intelligent solutions for customers who care for clean and safe infrastructure and cultivate challenging grounds. Its portfolio includes its own vehicles as well as attachments and mountings, complemented by service and support. In the field of railway snow clearance, Aebi Schmidt has decades of expertise dating back to the traditional Beilhack brand, whose origins go back to the 19th century and which has been part of the group since 2005.

Further information:

www.aebi-schmidt.com/en/

About PJM

PJM is an internationally renowned systems specialist for rail transport 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 for the approval of rail vehicles. These include the new Nightjet generation of the ÖBB, the Rhaetian Railway, the Mountaineer passenger train in Canada, the TILO regional railway, the S-Bahn (suburban train) in Berlin and the underground railways in Riyadh, Chicago and London.

PJ Monitoring GmbH is a technology leader in the automation and digitalisation of rail freight transport with its WaggonTracker system.

PJ Motion GmbH specialises in the authorisation and project management of rail vehicles.

EMV Rail Services GmbH focuses on EMC measurements.

PJM was founded in 2006. Around 90 employees at the Graz site ensure '100% Made in Austria': R&D, hardware and software development, production and administration are all carried out exclusively in Austria.

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

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PJM was commissioned with testing AEBI Schmidt's snow blowing machine Beilhack HB 1100S. The tests are carried out in Norway according to TSI LOC&PAS:2024 and for the approval in Norway.

Credit: PJM, free of charge



The snow blower was tested under various weather conditions.

Credit: PJM, free of charge



Credit: PJM, free of charge



Credit: PJM, free of charge