

Press release

eTrailer in the Test at DB Schenker: Significantly lower fuel consumption

Trailer Dynamics and DB Schenker in France are testing eTrailers from Trailer Dynamics in live operation • diesel consumption 24 to 55 percent lower • precise forecast of energy requirements

Frankfurt, April 6, 2023 – The use of eTrailers in land transport enables fuel consumption savings of between 24 and 55 percent. This is shown by a joint field test by DB Schenker, one of the world's leading logistics service providers, Trailer Dynamics and the Krone Commercial Vehicle Group in real transport operations. eTrailers can thus make a significant contribution to the decarbonisation of land transport. eTrailers are semi-trailers that have an electric drive train and thus support the semi-trailer tractor with energy, for example when starting off or climbing hills.

With the field test, which was carried out in France in the spring of 2023, concrete savings in diesel consumption in real operation at DB Schenker could be verified for the first time. In a professional field test environment, the diesel consumption of the semitrailer system with a conventional trailer was compared with the diesel consumption of the semitrailer system in combination with an eTrailer. The eTrailer M300 from Trailer Dynamics dynamically supported the diesel semi-trailer truck over the entire test route and controlled the electrified axle in real time. The savings varied depending on the topography or the type of route in the area of operation.

Another result of the test showed that the total consumption of electrical and fossil energy and thus the savings in diesel requirements can be precisely predicted. For this purpose, Trailer Dynamics has developed a performance analysis software that is used in advising customers. The actually measured energy consumption in the test deviated from the forecasts by only 0.7% and 0.9%. The tests in the DB Schenker network will continue over the course of the year.

Wolfgang Janda, Head of System Operations at DB Schenker Europe: “Our goal is to make DB Schenker the leading provider of clean transport solutions. In order to achieve this, we are no longer just focusing on the last mile, but now also on linehaul traffic. The test with Trailer Dynamics shows that eTrailers can be an important component here. We are impressed by how easy the eTrailer system is to use on a day-to-day basis.”

Abdullah Jaber, CEO Trailer Dynamics: "The impressive results and the successful verification of the digital simulation models from Trailer Dynamics with regard to the diesel reduction potential of the tractor unit and the energy consumption of our

Press release

eTrailer in a real field test together with DB Schenker once again confirm the importance of eTrailer technology for decarbonization of heavy goods traffic".

About DB Schenker

With around 76,600 employees at more than 1,850 locations in over 130 countries, DB Schenker is one of the world's leading logistics providers. The company operates land, air, and ocean transportation services, and it also offers comprehensive logistics and global supply chain management solutions from a single source. To reach its ambitious goal of net carbon zero by 2040, the logistics service provider continuously invests in innovative transport solutions, renewable energies, and carbon-neutral products for its customers.

www.dbschenker.com

Blog.dbschenker.com

About Trailer Dynamics

Together with its strategic partner Krone, Trailer Dynamics has developed a comprehensive and hitherto unique solution concept for reducing diesel consumption for long-distance diesel trucks or increasing the range for battery-electric semitrailer tractors (BEV) by installing an additional, functionally reliable electric drive train in the eTrailer.

The core of the development is an electric drive train that has been moved to the trailer and enables the eTrailer to be coupled to any tractor unit. Trailer Dynamics e-Trailers' intelligent electric drive train supports the diesel semi-trailer tractor along the entire route, both when starting off and when negotiating inclines. The electric powertrain is also capable of recovering energy through recuperation. If not all of the electrical resources are required for the above-mentioned tasks, the electric drive permanently supports the diesel drive of the tractor unit over the entire route with the remaining energy.

With the electric support drive in the eTrailer, depending on the loading situation and the topography of the route, significant reductions in CO2 emissions from the diesel semi-trailer tractor and, depending on the electricity mix used when charging the batteries, an average of 40% or up to 40t CO2 can be achieved.

www.trailerdynamics.de

About Krone Nutzfahrzeug-Group

The Krone Commercial Vehicle Group sees itself as a holistic mobility consultant. As the market leader in the fields of commercial vehicles and agricultural engineering, Krone has been at home in Emsland and active throughout the world for over 50 years. At five plant locations with around 2,500 employees, the company has developed further core competencies in the areas of digitization, automation, sustainability and electrification in addition to its production expertise in the area of trailers. The Krone eTrailer is a very good example of this. As part of the overall "Mission Beyond Zero" concept, he ensures that the tractor unit is relieved and thus the CO2 emissions of articulated lorries are significantly reduced. Krone thinks transport holistically in

Press release

order to make trailer transport solutions more efficient, sustainable and safer for customers.