



Trailer Dynamics and Krone announce strategic partnership

Prototype of the eMega Liner presented

Lingen/Werlte/Aachen, September 2021. Trailer Dynamics GmbH and trailer manufacturer Krone have announced a strategic partnership. The common goal is to develop an electrified trailer ready for series production that significantly reduces the diesel and CO₂ emissions of diesel semi-trailers and increases the range of BEV semi-trailers. The prototype of the eMega Liner was presented for the first time during the Krone Executive Logistics Summit at the Krone Future Lab in Lingen on 23 September 2021. During the first test runs, which were accompanied by SGS TÜV Saar GmbH, the eMega Liner was already able to achieve the targeted diesel and CO₂ emission reductions of up to 20 percent.

Trailer Dynamics' innovative technology works with closely coordinated components. The key element is a powerful e-axle, which drives the semi-trailer and also recovers braking energy through recuperation. The battery energy carried in the eTrailer is sufficient especially for long distances over 500 km. If the charging infrastructure on the planned route is not sufficient, an on-board charger will be available to bridge the gap. Another highlight of the Trailer Dynamics development is the intelligent control software, which optimally uses and distributes the battery-electric energy over the entire route. Thereby, the functionally reliable real-time control of the system is independent of the manufacturer of the semi-trailer. Overall, the semi-trailer system becomes an electric plug-in hybrid through the intelligent combination of eTrailer and diesel truck.

Michael W. Nimtsch, Founder and Managing Director of Trailer Dynamics, says: "With Trailer Dynamics' eTrailer technology, we are able to significantly reduce the diesel consumption and CO₂ emissions of a semi-trailer and make a substantial contribution to climate neutrality. Since the eTrailer from Trailer Dynamics can be combined with any semi-trailer regardless of the manufacturer, we can bring the approximately two million diesel semi-trailers in the European fleet closer to low-emission Green Logistics. In addition, our range extender technology in the eTrailer achieves a range

increase of BEV semi-trailers, enabling fully electrified freight heavy haulage on long distances over 500 km."

Abdullah Jaber, Founder and Managing Director of Trailer Dynamics, adds: "The concept of sensory control of the electric driveline developed by Trailer Dynamics enables a solid and functionally reliable control with the semi-trailer. We will realise further efficiency improvements in the field tests that are now pending and until they are ready for series production, thus ensuring a technically convincing market entry of the eTrailer from Trailer Dynamics."

"We are pleased to be able to offer our customers a new perspective on environmentally friendly transport with this strategic partnership. It is important to us that the total cost of ownership is in the foreground," says Dr. Stefan Binnewies, chairman of the advisory board of Trailer Dynamics GmbH and member of the board of directors of Bernard Krone Holding about the new cooperation.

About Trailer Dynamics GmbH

Trailer Dynamics GmbH is a technology innovator founded in 2018 and based in Aachen. The company's goal is to make a significant contribution to decarbonisation and sustainable logistics for long-haul diesel semi-trailers and to increasing the range of BEV semi-trailers with the "eTrailer" concept. The core of the development is an electric drive train integrated into the trailer, which makes it possible to connect the eTrailer to any conventional semi-trailer in a plug-and-play process. Thus, Trailer Dynamics offers a comprehensive and so far unique concept for diesel consumption and CO₂ emission reduction of long-haul trucks.

About Krone Commercial Vehicle Group

Krone is a leading European manufacturer of truck trailers and semi-trailers for the transport industry, which generated sales of around €1.1 billion in the 2019/20 financial year. Krone is contributing its trailer technology, its manufacturing know-how and its Europe-wide sales structures to the cooperation.

Caption

The prototype of the eMega Liner was presented for the first time during the Krone Executive Logistics Summit at the Krone Future Lab in Lingen on 23 September 2021.

Photo: Trailer Dynamics

