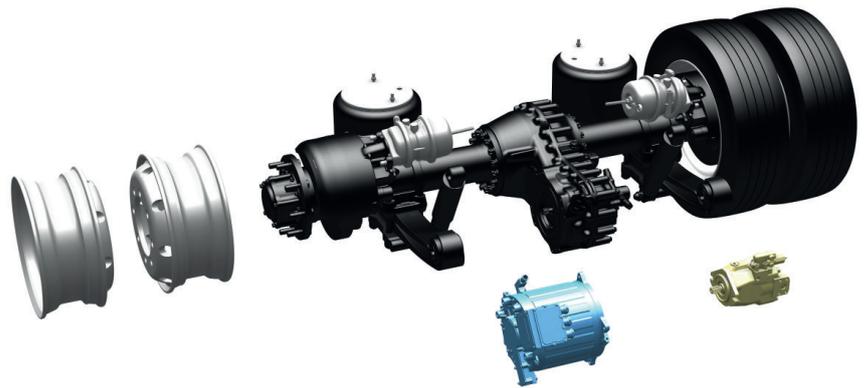


## Hybridisation of trailers, semi-trailers, dump trucks, car transporters **LOHR and SAF-HOLLAND sign a partnership contract for the development of electric trailer axles**

The industrial group **LOHR** and **SAF-HOLLAND** have sealed a technological and commercial partnership for the development of **AXEAL** - "AXle Electric Assist Lohr" - a hybridisation system for trailers or semi-trailers.

### **The AXEAL system**

The **AXEAL** system designed by **LOHR** is totally independent from the tractor, providing power assist during acceleration and regenerative braking. It improves driving comfort and increases performance by reducing fuel consumption by 15% depending on the configuration. It also drives the peripheral systems, e.g. the cylinders of car transporters to make loading and unloading quieter and less polluting.



### **Presentation of AXEAL on the LOHR industrial site at Duppigheim**

On Thursday 16 May 2019, the CEOs of the two companies, Alexander GEIS for **SAF-HOLLAND** and Christian FITY for **LOHR Industrie** formalised the cooperation between two major operators:

- **LOHR**, the European leader in vehicle transporters,
- **SAF-HOLLAND** one of the world's leading suppliers of components for industrial vehicles and trucks.

### **Why this strategic partnership?**

#### **Long-standing partners with a common vision.**

**SAF-HOLLAND** and **LOHR** have been working together for over 20 years.

The two groups have pooled their respective know-how to bring to market a system providing power assist during acceleration and regenerative braking:

- **LOHR** for its recognised experience in the development of electromobility solutions for buses and urban shuttles, and as a designer of car transporters,
- **SAF-HOLLAND** for its recognised experience in the development of trailer axles.

*"SAF-HOLLAND is the ideal partner for the global marketing of this electric hybridisation system due to its international presence and commitment in the development of electromobility solutions."* explains Christian Fity.

*"We appreciate the dynamism of the **LOHR** group and its ability to innovate and industrialise new technologies. We have entered into an agreement to make this future-oriented technology a global industrial success. We will be offering the **AXEAL** electric axle to our customers worldwide,"* commented Alexander Geis.

#### **This industrial complementarity and shared vision has led to the cooperation contract signed today.**

The **LOHR** group is transferring the distribution rights for **AXEAL** to **SAF-HOLLAND** which will be able to offer it to all its customers (excluding car transporters). The **SAF-HOLLAND** group designed, tested and tested the mechanical part of **AXEAL** on which the electric motor and its control-command system is mounted.

## AXEAL - Axle Electric Assist Lohr

### *The Lohr Industrie roadmap for the introduction of the AXEAL technology*

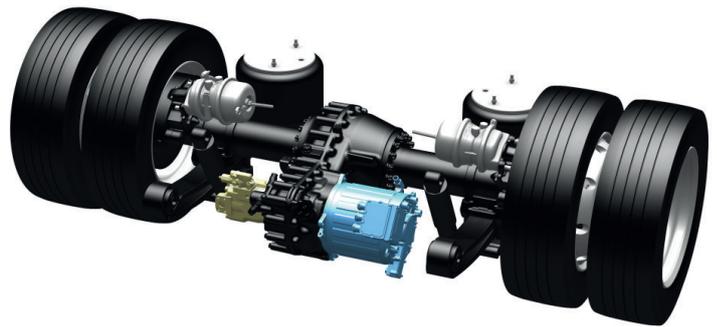
After several months of testing on the Alsace-based group's test benches and an inspection by the UTAC (car, motorcycle and bicycle technical union) at Montlhéry (for technical tests and approval), two car transporters equipped with **AXEAL** will shortly be delivered to the US customer Virginia Transport and the South-African company KDG.

**LOHR** intends to gradually introduce the **AXEAL** system into its new range of car transporters starting this year.

"We will have significant feedback at that point as the first deployments are different in terms of loading performance and complex urban environments" commented Christian Fity.

### *Technological information about AXEAL*

The central mechanical system includes a differential, a reduction gear and a power take-off. When the vehicle is in motion, it drives the wheels, providing power assist during acceleration and regenerative braking. When halted, it can drive a peripheral (e.g. a hydraulic pump) mounted on the power take-off.



**About SAF-HOLLAND:** <https://safholland.com/>

**SAF-HOLLAND** is one of the world's leading suppliers of components for industrial vehicles and trucks. Listed on the S-DAX stock exchange in Frankfurt, the German group achieved sales of 1.301 million euros in 2018.

Most of its turnover is generated by sales of equipment for trailers, semi-trailers and trucks. The product range comprises axle and suspension systems, landing gear, pneumatic suspension, disk brakes, fifth wheels, kingpins, etc. The group also provides services including the sale of spare parts, maintenance and servicing, etc. The group employs 4,400 people on 17 production sites around the world.



**About LOHR Group:** [www.lohr.fr](http://www.lohr.fr)

For more than 50 years, the French family-run **LOHR** Group has been a global specialist in the design, manufacture and marketing of transport systems for goods and people generating 80% of its turnover on the export market.

Today, with a global manufacturing footprint including seven plants across three continents, 2,000 employees and a research and development centre with 150 engineers and technicians, **LOHR** continues to assert its position as the world leader in car transporters, to develop its piggyback activity and to promote projects for sustainable mobility.

#### LOHR contacts:

**Eric BELTON** - Managing Director  
Tel. +33(0)6 83 84 19 99  
eric.belton@lohr.fr

#### Press contact:

**Stéphane BERSTEIN**  
Tel. +33(0)6 67 31 47 13  
stephane.berstein@actine-strategies.com

