

Hydraulic chassis for increased energy efficiency

## HÜBNER presents innovations for e-buses at mobility move '24

Kassel, Germany (1 March 2024). Innovations for electromobility in public transport: The HÜBNER Group will participate at mobility move '24 with an exhibition booth and a presentation in the conference program. The company will be showing new systems and technologies that make the operation of electric buses more energy efficient and reliable at Booth 49 / Hall 12.

*“Electric buses are playing an ever greater role in local public transport, but there are still technical challenges that need to be mastered,”* emphasizes **Uwe Bittroff, Managing Director of the HÜBNER Group**. *“With our wide portfolio of products and services at HÜBNER, we can offer our customers reliable and space-saving vehicle components that improve energy efficiency and extend the range of electric buses.”*

### More energy efficient operation of e-buses

One challenge facing the industry is to develop technologies that allow vehicles to have a more extensive driving range. This is the topic that **Dr. Mark Wöhrmann, Managing Director of HEMSCHEIDT Fahrwerktechnik GmbH & Co. KG**, will address in the conference program at mobility move '24. His presentation “Increasing efficiency with hydraulic chassis” will take place on Wednesday, 6 March 2024, at 2:15 p.m. in E-Bus-Forum 2.

These efficiency gains are delivered by the new hydropneumatic suspension and damping system manufactured by HEMSCHEIDT Fahrwerktechnik, a company of the HÜBNER Group. The system saves large amounts of energy while at the same time increasing riding comfort in electric buses. The key to these improvements lies in the use of (bio) oil as a hydraulic fluid instead of compressed air for the suspension system. This makes for a more efficient use of energy, which also has a positive effect on the range of electric buses.

### Greater energy efficiency with oil in a hydropneumatic system

*“We achieve significantly higher energy efficiency through the continual reuse of oil in a closed hydropneumatic suspension and damping system,”* explains **Dr. Mark Wöhrmann, Managing Director of HEMSCHEIDT Fahrwerktechnik GmbH & Co. KG**. The oil also has the effect of accelerating the reaction times and the power transmission of the chassis. *“Oil transmits forces with virtually no energy loss,”* emphasizes **Dr. Wöhrmann**. *“We use this characteristic to enable particularly responsive operation of buses.”*

### Space-saving and low-wear energy guidance systems

Existing technologies for buses often have a relatively high weight and also take up larger amounts of space, for example in the chassis – with negative effects on carrying capacity and design. At mobility move '24, HÜBNER will present the new S-EGS energy guidance system, which represents a real alternative for electric and hybrid buses as well as trolley buses. With this system, high-voltage, battery, potential equalization and fluid cables can all be routed on the outside of the vehicle. This not only saves space, it also minimizes the relative movement of these lines to one another.

In addition, wear caused by external environmental influences is almost completely eliminated. With the S-EGS system, energy guidance packages with a total weight of up to 70 kg and lines with an exterior diameter of up to 42 mm can currently be realized.

### High availability with speedy shipment of spare parts

HÜBNER customers will also benefit from an accelerated service for the delivery of spare parts as well as a digital remote service. *“Shorter delivery times mean higher vehicle availability. The fact that we can offer faster response times with digital support gives direct benefits to our customers,”* explains **Tim Dortans, Head of HÜBNER Service Road**. *“Thanks to our extensive product portfolio, we can offer spare parts for almost all vehicle components, including those for e-mobility.”*

This makes it possible to deliver spare parts in Germany in less than 24 hours after receipt of an order – with online order tracking and without packaging costs. In addition, HÜBNER offers digital Remote Service support, which makes it possible to quickly have direct contact with a HÜBNER service technician. The technician can then analyze the problem remotely via a video call and offer direct solutions.

### The HÜBNER Group

**Mobility. Materials. Photonics. | united by passion.**

With its business units Mobility Rail, Mobility Road, Material Solutions and Photonics, the HÜBNER Group is a global system supplier for the mobility sector, for manufacturing, and for life sciences and research applications. HÜBNER is the worldwide leader in gangway systems for rail vehicles and buses as well as a supplier of chassis technology, cockpit display solutions and door sealing and safety profiles. The company is also an internationally recognized supplier of sophisticated solutions involving elastomers, insulation and composite materials. HÜBNER's business unit for laser technology is developing successfully, featuring applications for cancer diagnostics and spectroscopy, for example.

In 2023, the HÜBNER Group generated sales of approximately €472 million, with approximately 3,500 employees worldwide. In addition to its headquarters in Kassel, Germany, HÜBNER is present with more than 30 locations around the world.

[www.hubner-group.com](http://www.hubner-group.com)



**Press contact:**

Claas Michaelis  
HÜBNER GmbH & Co. KG  
Heinrich-Hertz-Str. 2

34123 Kassel, Germany

Tel. +49 561 998-1710  
[press@hubner-group.com](mailto:press@hubner-group.com)