8 September 2025

presse info

Preh GmbH
Schweinfurter Straße 5-9
D-97616 Bad Neustadt
a. d. Saale

Tel. + (49) 97 71 92 - 0

www.preh.com

HMI and e-mobility specialist remains innovative

Preh at IAA Mobility: 2025 center console concept and onboard charger with V2G functionality

Bad Neustadt a. d. Saale. At the IAA in Munich, the Preh Group is represented in the "Future Mobility Pavilion" with a meeting area for customers and journalists. The focus is on the concept of a center console optimized for smartphones and the latest generation of e-mobility solutions. These include an onboard charger with bidirectional energy flow, including vehicle-to-grid functionality.

"We have once again decided to be present at the Future Mobility Pavillon of the trade fair and event specialist PGUB," explains Charlie Cai, Chairman of the Management Board and CEO of Preh GmbH. "In Hall B3, at Stand C40, we have a presentation area for product highlights as well as a separate innovation room. This is reserved for exclusive customer meetings," says Cai.

New center console design integrates your smartphone "smartly"

After getting into the vehicle, placing your smartphone on the inductive charging surface and pairing it via Bluetooth has become standard practice, but Preh has taken the application a step further. In the 2025 center console concept, the smartphone is placed under a transparent area. The most important functions are displayed and selectable via corresponding icons on the transparent surface. They are displayed using light guide technology, which enables color changes and eliminates the need for conventional displays. Depending on requirements, several different icons can be displayed in the same place.

New onboard charger with bidirectional energy flow and real-time grid stabilization

Preh's new onboard charger is one of the first of its kind with full vehicle-to-grid (V2G) functionality and also supports vehicle-to-load (V2L), vehicle-to-vehicle (V2V), and vehicle-to-home (V2H). This enables flexible and intelligent energy exchange between the vehicle and a wide range of consumers or the power grid.
The system developed by Preh enables highly dynamic adaptation to changes in grid load and actively contributes to stabilizing the power grid. The energy flow between the vehicle and the grid is uninterrupted – both during charging (G2V) and during energy recovery (V2G). Frequency jumps of up to ±2.5 Hz per second are detected and compensated in real time – a decisive contribution to grid security in bidirectional energy flow.

With a charging efficiency of over 95%, the charger meets the highest efficiency requirements in both operating directions. The integrated control of active and reactive power ensures compliance with international grid code specifications. A protection mechanism reacts within just 200 milliseconds to overvoltages, undervoltages, and frequency deviations to ensure safe operation at all times.

The onboard charger supports battery voltages up to 850 volts, making it ready for next-generation high-voltage systems. In addition, it has been developed as a universal variant and can therefore be used in all global markets.

presse info

Preh GmbH
Schweinfurter Straße 5-9
D-97616 Bad Neustadt
a. d. Saale

Tel. + (49) 97 71 92 - 0

www.preh.com

Images

Preh center console concept 2025 with “smart” smartphone integration and stylish, functional design.

presse
info

Preh GmbH
Schweinfurter Straße 5-9
D-97616 Bad Neustadt
a. d. Saale

Tel. + (49) 97 71 92 - 0

www.preh.com

The latest e-mobility innovation from Preh: a bidirectional onboard charger that can contribute to grid stabilization in real time.

About Preh

As a global automotive supplier, the Preh Group currently employs around 6,500 people and generated sales of around €1.53 billion in 2024. Preh was founded in Bad Neustadt a. d. Saale in 1919 and has been part of the Joyson Group since 2011. Preh's development and manufacturing expertise includes HMI systems for passenger cars and commercial vehicles as well as low- and high-voltage e-mobility components. Within the Joyson Group, Ningbo (China), which was founded in 2004 by Jeff Wang, Preh is a subsidiary of the listed Joyson Electronics Corp. (600699:Shanghai) and belongs to the Automotive Electronics division.

Editorial contact:
Ronald Schaare
Tel.: +49 (0)9771 92 4328
Mobil: +49 (0)172 630 1102
E-Mail: ronald.schaare@preh.de