

### **Independent power supply for more comfort on the road**

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Bosch Engineering and Knaus Tabbert present smart 48V electrical system for caravan owners at the Caravan Salon 2019 in Düsseldorf

- ▶ Smart energy generation via recuperation
- ▶ Independent power supply while traveling and at your holiday destination
- ▶ Easy maneuvering via integrated maneuvering function

Abstatt, Jandelsbrunn – The new 48V electrical system from Bosch Engineering and Knaus Tabbert helps you to get more from your holiday. It offers campers more flexibility and independence when it comes to the energy supply for their caravan while traveling and at their holiday destination. The engineering service provider Bosch Engineering is developing an intelligent 48-volt system in cooperation with the specialist for recreational vehicles Knaus Tabbert. The wholly-owned Bosch subsidiary benefits from the decades of industry experience of the Jandelsbrunn-based company when it comes to adapting the special requirements to the caravan.

### **Smart system for more self-sufficiency on the road and at your holiday destination**

The 48V system includes an electrified axle, sensors, and lithium-ion batteries, thereby enabling the generation of electrical energy independent of the towing vehicle. In the generator mode of the 48V e-machine offered by Bosch, the batteries can be charged while traveling as well as via recuperation\* when braking. The energy thus stored can be used for the various consumers inside the caravan or converted into propulsive power. The scalability of one to eight stationary 48V batteries installed offers maximum flexibility for a variety of holiday demands. This independent concept can also be extended to include portable 48V batteries which can be practically recharged at a power outlet inside the caravan or even at home.

The caravan is also equipped with an integrated maneuvering function to facilitate easier handling. Using an app, caravans can be maneuvered easily and conveniently to the desired parking spot at home and at your holiday destination. And there is a connectivity unit which forms the basis for digital services such as regulating the recuperation settings which can be used via a mobile end device while traveling. This new technology thus complies with campers' growing demands on comfort.

Interested visitors can find out more about the new system at the Knaus Tabbert INNOVATIONHUB in hall 4.

### **Supplement for editorial staff**

#### **\*Regenerative braking – Recuperation**

Kinetic energy generated during braking is converted back into electrical energy. This recovered energy is stored in the batteries and is available for consumers such as the fridge, air conditioning or the coffee machine inside the caravan.

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#### **Press contact:**

Cornelia Dürr

Bosch Engineering GmbH

Telefon: +49 7062-911-1986

E-Mail: [cornelia.duerr@de.bosch.com](mailto:cornelia.duerr@de.bosch.com)

Stefan Diehl

Knaus Tabbert GmbH

Telefon: +49 8583 21-300

E-Mail: [s.diehl@knaustabbert.de](mailto:s.diehl@knaustabbert.de)

#### **About Bosch Engineering GmbH**

*Bosch Engineering GmbH is a wholly owned subsidiary of Robert Bosch GmbH and is headquartered in Abstatt, Germany. As a systems development partner to the automotive industry since 1999, the company with its more than 2,800 associates offers development services for powertrains, safety and convenience systems, and electrical and electronic systems – from the original concept to series production. Specialized in electronics and software, it draws on Bosch's proven large-scale series production technology to develop tailored solutions for a wide variety of applications in passenger cars, commercial vehicles, off-highway and recreational vehicles, and in rail applications, ships, and industry. Bosch Engineering GmbH also coordinates all the Bosch Group's motorsports activities.*

Additional information can be accessed at [www.bosch-engineering.com](http://www.bosch-engineering.com)

#### **About Knaus Tabbert**

*Knaus Tabbert GmbH is a leading manufacturer of leisure vehicles in Europe. The company's headquarters are located in Jandelsbrunn, Germany. Additional sites include Mottgers in Hessen (Germany) as well as Schlüsselfeld (Germany) and Nagyoroszi in Hungary. With its brands KNAUS, TABBERT, T@B, WEINSBERG, MORELO and RENT AND TRAVEL, the company achieved sales in excess of EUR 720 million in fiscal year 2018. With its staff of 2,903, the company manufactured 23,643 caravans and motorhomes in 2018.*