



## Press Release

**ebm-papst ensures a pleasant climate in the ICE 4**

### **New products for railway systems at InnoTrans**

**InnoTrans, the leading international trade fair for transport technology, takes place every two years in Berlin – this year from September 20 to 23. ebm-papst will be presenting its innovative fans, motors and drive solutions for railway systems in Hall 3.1, Stand 237. The highlight will be its new generation of centrifugal fans, which will be installed in the air conditioners in the new ICE 4 trains.**

#### **EC technology for air conditioning in trains**

The air conditioners in the new ICE 4 trains, which are scheduled to commence regular operation next year, are equipped with RadiCal centrifugal fans from ebm-papst. The fans are designed for ambient temperatures between -40 °C and +60 °C, covering the typical temperature range for railway applications. They are integrated in an easily installed and specially designed lightweight, high-strength aluminum module and are driven by the latest generation of energy-efficient EC motors. When combined with the FlowGrid air-inlet guard, they achieve unprecedented levels of noise reduction.

#### **Satisfying the toughest requirements**

The new fans satisfy requirements for EMC (electromagnetic compatibility) according to EN 50121-3-2 and for shock and vibration resistance according to IEC 61373. In addition, TÜV SÜD, a German certification institute, has confirmed that their design, materials and production are in full compliance with DIN EN 45545 at the highest hazard level, HL3. Fire safety regulations are no obstacle for the ebm-papst railway fans thanks to their use of special plastics. The new centrifugal fans will be available in sizes 250-355 starting in fall 2016.

#### **Motor-gearbox combinations**

Besides fans for air conditioning, ebm-papst will also be presenting a wide range of motor-gearbox combinations for railway systems at InnoTrans. Industrial drive engineering products can be found in door drives, drives for boarding aids or in special applications such as drives for windshield wipers. Drive solutions from ebm-papst feature intelligent functionality, unbeatable innovation, reliable operation and future-proof design.

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Fig. 1: This centrifugal fan with RadiCal impeller will be used in the air conditioners in the new ICE 4 trains and is designed for ambient temperatures between -40 °C and +60 °C.



Fig. 2: Motor-gearbox combinations for a wide range of applications in railway systems.

Photos: ebm-papst

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#### **About ebm-papst**

The ebm-papst Group is the world's leading manufacturer of fans and motors. Since it was founded, the technology company has continuously set global market standards.

Developments have ranged from electronically controlled EC fans, through aerodynamic improvements of fan blades, and on to the resource-conserving selection of materials, with sustainable materials being just one option.

In fiscal year 2015/16, the company achieved sales of almost €1.7 billion. ebm-papst employs approximately 12,500 people at 18 production sites (in Germany, China, the United States and elsewhere) and in 57 sales offices worldwide. Fans and motors from the global market leader can be found in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automobiles and drive engineering.

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