



Presentation at the IAA trade fair: New water pump from ebm-papst

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The motor and fan specialist ebm-papst is interpreting the current motto of the IAA – Zukunft serienmäßig (Future comes as standard) – with a new water pump, which will be presented during the automotive trade fair from 15 to 25 September: Efficiency in a 20-watt format, for example for battery cooling in hybrid vehicles, return cooling as part of start/stop systems, low temperatures in the exhaust gas recirculation and in the gearbox.

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With this new product, ebm-papst is applying its decades of experience in aerodynamics, motor technology and electronics in the field of pumps. This also explains the trade fair headline: "Into the New". The coolant pump, which has been newly developed from ground up, consists of an integrated motor with electronics that is separated from the medium by a can. The magnet and pump impeller form a structural unit.

The overall design of the smooth-running external rotor motor helps to conserve fuel and thereby reduce the CO₂ emissions: The pump achieves an outstanding overall efficiency of 35% and, consequently, uses less electricity than previously available models with the same blower output. Simultaneously, the pump generates a significantly higher pressure – depending on the model you compare it with, up to 50% higher. It follows that automakers can use this new generation of auxiliary system pumps to noticeably reduce the power input of the overall system.

Aside from the groundbreaking water pump, ebm-papst's trade fair appearance is entirely characterized by technology for the vehicles of tomorrow, on which high requirements for eco-friendliness are being placed. ebm-papst offers products and solutions for numerous problems. The latest ebm-papst components for hybrid and electric vehicles will be presented at Stand B12 in Hall 4.0. These include intelligent battery ventilation systems for cooling the energy accumulators as well as customised actuators, such as clutch actuators for hybrid vehicles.

Vehicles of tomorrow will achieve climate protection targets in part with ever more comprehensive electronics and control systems. Solutions for efficient electronics cooling for components in the instrument panel, engine compartment or other places in the vehicle associated with rough conditions are among the core competencies of ebm-papst. The same is true of our technology, with which environmental impact can be directly reduced, for example with pump drives for urea injections.



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With all of their energy efficiency, vehicles of tomorrow will be no less comfortable and convenient than today. An essential aspect in this regard is the development endeavours of automakers to keep improving the climate in the vehicle. During the IAA, therefore, ebm-papst is also presenting the newest solutions for comfortable indoor climate – for example in the area of ventilation for the seats and headroom.

The products and solutions presented during the IAA interpret the ebm-papst motto, "Into the New", in a groundbreaking way. The GreenTech approach of ebm-papst for best possible energy efficiency uses decades of experience to make robust, durable, low-noise, compact, and shock-resistant components equipped with new electronics and sensors available for the automobile requirements of tomorrow.



Figure 1: High temperature fan for LED head lamp cooling



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Figure 2: BLDC motor with outer rotor for urea pumps



Figure 3: clutch actuator based on BLDC motor with inner rotor



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Figure 4: BLDC motor with hollow shaft inner rotor for adaptive steering

About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors and is a pacesetter for the ultra-efficient EC technology. In the last fiscal year 10/11, the company generated turnover of over 1.3 billion EUR. ebm-papst employs over 11,000 people at 17 production sites (including Germany, China and the USA) and 57 sales offices worldwide. Fans and motors of the global market leader are represented in many industries, including ventilation, air-conditioning and refrigeration technology, household appliances, heating engineering, in IT/telecommunications, in medical technology as well as applications in automotive and commercial vehicle engineering. The St. Georgen location has the Herbolzheim Plant in Germany, two plants in Vecsés and Celldömök and a plant in China. ebm-papst St. Georgen GmbH & Co. KG employs a total of 3,400 employees.

More information can be found at www.ebmpapst.com or is available from Alena Gebhardt – alena.gebhardt@de.ebmpapst.com – +49 7724-81-1311