Discover ebm-papst in automotive technology.

Innovative drive and ventilation solutions for passenger cars and commercial vehicles.
About ebm-papst.

As technological leader for ventilation and drive engineering, ebm-papst is in demand as an engineering partner in many industries. With over 15,000 different products, we provide the right solution for just about any challenge. Our fans and drives are reliable, quiet and energy-efficient.

Six reasons that make us the ideal partner:

**Our systems expertise.**
You want the best solution for every project. The entire ventilation system must thus be considered as a whole. And that’s what we do – with motor technology that sets standards, sophisticated electronics and aerodynamic designs – all from a single source and perfectly matched.

**Our spirit of invention.**
We are also always able to develop customized solutions for you with our versatile team of over 600 engineers and technicians.

**Our lead in technology.**
We are pioneers and leaders in the development of high-efficiency EC technology. Already today almost all our products are also available with GreenTech EC technology. The list of benefits is long: higher efficiency, low maintenance, longer service life, sound reduction, intelligent control characteristics and unrivalled energy efficiency.

**Closeness to our customers.**
ebm-papst has 25 production locations worldwide (including facilities in Germany, China and the USA), together with 49 sales offices, each of which has a dense network of sales representatives. You will always have a local contact, someone who speaks your language and knows your market.

**Our standard of quality.**
Our quality management is uncompromising, at every step in every process. This is underscored by our certification according to international standards including DIN EN ISO 9001, TS declaration of conformity and DIN EN ISO 14001.

**Our sustainable approach.**
Assuming responsibility for the environment, for our employees and for society is an integral part of our corporate philosophy. We develop products with an eye to maximum environmental compatibility, in particular resource-preserving production methods. We promote environmental awareness among our young staff and are actively involved in sports, culture and education. That’s what makes us a leading company – and an ideal partner for you.
Experience, expertise and passion.

The amount of noise generated by electromechanical components are found to be louder and more intrusive in an electric vehicle than in conventional cars with combustion engine. However, our vision for the automobile of the future is quite different. With our state-of-the-art GreenTech EC technology, the cooling and drive units we develop work almost silently. Without the driver even noticing, they allow safe and stress-free driving and contribute to reductions in fuel consumption and pollution in many ways, such as exhaust gas treatment, cooling for energy storage systems in electric and hybrid vehicles, when steering or when shifting state-of-the-art transmissions. Have a look at some of our automotive innovations:

**Compact and convenient: drives for every requirement.**

Not only do drives increase convenience for drivers, they also enhance safety. Electronics integrated in their motors make constant improvements in reliability, output control and ease of use possible. ebm-papst has the right drive concept for a wide range of applications:

- Internal rotor drives for pumps used in extreme conditions
  - Example application: oil pump drives for automatic transmissions
- Highly dynamic motors as space-saving drive solutions
  - Example application: power steering motors
- External rotor motors as compact, high-torque pump drives
  - Example application: DNOX urea pumps
- Internal rotor motors as highly dynamic actuators
  - Example application: clutch actuators, rear-axle steering

**Quiet and powerful: components for air movement.**

In addition to electric motors, ebm-papst develops and produces components for heat control and air movement, including both normal and compact fans that are used in different parts of a vehicle for optimum electronics cooling and air conditioning.

Our fan design, patented worldwide, combines high efficiency and quiet operation in a compact package.

**The facts at a glance:**

- Special fans integrated in seats and backrests guarantee maximum seating comfort.
- A wide range of axial and centrifugal fans provides powerful and reliable cooling for demanding vehicle electronics.
- We developed high-temperature fans for use in temperatures up to 120°C, e.g. for LED headlight ventilation.

We take an active part in the development of vehicle innovations, including mechanical systems, electronics and software. We work with manufacturers and system suppliers to develop trendsetting solutions based on your requirements, adapting them exactly to your operating conditions. By integrating intelligent platform modules, we also contribute to more economical production. We make the most of synergies to minimize development time and reduce costs.

**Everything from a single source**

At ebm-papst, we develop and produce motors, fans, electronics and systems in-house. We ensure that all components are perfectly matched for maximum performance with minimum noise. And of course our delivery and logistics are centrally controlled to work on a just-in-time basis. You can rely on our first-class service and our ability to react flexibly to the demands of global markets. That’s what ebm-papst stands for. All over the world.
As a highly qualified engineering partner of the automotive industry, our innovations have been helping to make the driving experience safer, more comfortable and less stressful for several decades. A growing number of renowned manufacturers and system suppliers, in both the passenger and commercial vehicle areas, are among our customers. Their satisfaction is the result of co-operation as partners and sophisticated, highly reliable products.

1  Exhaust gas treatment.
   – High power density
   – Wide range of speeds
   – Low operating noise
   – Long service life and reliability
   – Maintenance-free

2  Actuator.
   – Maintenance-free
   – Highly dynamic
   – Long service life and reliability
   – Customized adaptations
   – For 12V- and 24V-application

3  Electronics cooling.
   – Compact design
   – Low power consumption
   – For use at high ambient temperatures
   – Adjustable speed

4  Pumps for gaseous media.
   – Less space required for installation
   – Media resistance
   – High pressure build-up
   – Highly dynamic
   – Use with high ambient air temperatures
Examples of applications for ebm-papst products.

1. Exhaust gas treatment
2. Actuator
3. Electronics cooling
4. Pumps for gaseous media
5. E-mobility solutions
6. Power steering
7. Pumps for liquid media
8. Seat ventilation
9. Head space heating
10. Auxiliary heating
5 **E-mobility solutions.**
- Noise-optimized
- Long service life and reliability
- Compact design
- Low power consumption
- Use at high ambient air temperatures

6 **Active front steering.**
- Extremely compact design
- Highly dynamic
- Long service life and reliability
- Contributes to increased driving convenience and safety

7 **Pumps for liquid media.**
- Glandless
- Fuel savings
- Long service life and reliability
- High power density
- Resistant to transmission Gearoil
- Complete electronic system

8 **Seat ventilation.**
- Aerodynamic design in seat / customized
- Noise-optimized
- Optimized for installability
- Low operating noise at high flow rate

9 **Head space heating.**
- 3-phase fan drive with very smooth operation
- High pressure build-up
- Diagnostic signal
- Output control
- System integrated in headrest
- Customized housing shape

10 **Auxiliary heating.**
- Fully integrated solution
- Robust and maintenance-free
- High efficiency, Highly efficient
- Customized design via software and hardware adaptations