Discover ebm-papst *in* automotive technology.

Innovative drive and ventilation solutions for passenger cars and commercial vehicles.
What matters is *what is inside.*

Many different technologies and requirements come together in a motor vehicle. In the end, what matters is that every single component works perfectly and matches its specific requirements. As a long-standing and reliable partner for vehicle applications, we supply innovative air flow and drive solutions for conveying all sorts of liquids and gases within vehicles, playing a crucial role in making mobility more and more environmentally friendly, efficient and comfortable.

Top *economy.*

*The ebm-papst platform strategy.*

As a qualified engineering partner for the automotive industry, we have played an important role for decades in making driving safer, more convenient and less stressful with our innovations. We work with major manufacturers and systems suppliers for both passenger cars and commercial vehicles to develop trend-setting solutions based on their requirements, adapting them exactly to preferred operating conditions.

We have established the conditions for our extremely economical production by integrating four smart platform modules; with them we ensure that synergies are consistently exploited which minimizes the time needed to develop every custom innovation - while also reducing your costs.

**How you benefit from the ebm-papst platform strategy:**

– Use of proven concepts
– Implementation of extremely economical solutions
– Very short time to market
– Fast implementation of customized applications

Fans

Blowers

Electric pumps

Orbital pumps
As an ebm-papst customer, you benefit from the strong components of our platform modules for electric pumps, fans, blowers and orbital pumps. All four have been hydraulically or aerodynamically optimized in terms of their size, acoustics and efficiency. All of the platforms use efficient and high-performance BLDC motors with a wide range of speeds, torques and sizes, and they include electronics capable of supporting a variety of interfaces such as LIN and CAN. Clever software functionality for self-protection, diagnostics, closed-loop control and sensors is also an integral part of each platform. And you benefit from valuable extra features such as decoupling and customer-specific mountings.

1: Electric pumps Platform
In the pump platform, transmissions, stator cooling and oil pumps in general are possible applications for electric and hybrid vehicles, with a convincing 60-mm motor diameter and innovative auxiliary technology such as G-rotor and vane cell pumps.

2: Fans Platform
To ensure that top performance can also be amazingly quiet, the fan platform includes the option of integrating the FlowGrid inlet grill, which can then put its acoustic strengths to use in cooling systems for batteries, infotainment systems, electronics and control units, and in booster blowers, temperature sensors and seat climate control systems.

3: Blowers Platform
The motors in the blower platform can be equipped with a containment can to ensure safe and reliable media separation in various applications such as crankcase ventilation, tank ventilation or a combination of the two.

4: Orbital pumps Platform
All orbital pumps allow bidirectional flow control, are freeze-proof and generate high static pressure. This has a positive effect on their use in possible applications such as SCR, water injections or sensor cleaning.
Our customers’ satisfaction results from the spirit of partnership in our cooperation with them and from our technically refined and highly reliable products. Below are a few applications that serve as examples of highly economical automotive technology solutions that were developed using individual components from our platform modules and have proven themselves in practice ever since.

1 **SCR system**
- High power density
- Wide range of speeds
- Low operating noise
- Long service life and great reliability
- Maintenance-free

2 **Actuator systems**
- Maintenance-free
- Highly dynamic
- Long service life and great reliability
- Customized adaptations
- 12- and 24-volt applications possible

3 **Electronics cooling**
- Compact design
- Low power consumption
- Use at high ambient temperatures
- Adjustable speed
- Acoustics optimized for extremely low operating noise

4 **Crankcase ventilation**
- Space-saving design
- Media resistance
- High pressure increase
- Highly dynamic
- Use at high ambient temperatures
Dependable components, flexible layout.
5 E-mobility solutions
- Noise-optimized
- Long service life and great reliability
- Compact design
- Low power consumption
- Use at high ambient temperatures

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

7 Electric oil pump
- Glandless
- Fuel savings
- Long service life and great reliability
- High power density
- Resistant to transmission oils
- Fully integrated electronics

8 Seat climate control
- Aerodynamic design in seat (customized)
- Noise-optimized
- Optimized for installability
- Low operating noise at high air flow

9 Tank ventilation
- Space-saving design
- Media resistance
- High pressure increase
- Highly dynamic
- Use at high ambient temperatures

10 Water injection
- High power density
- Wide range of speeds
- Low operating noise
- Long service life and great reliability