

**ebm papst**

# **Medical and Laboratory**

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# Medical and laboratory technology

**A driving force for greater comfort in medicine - Drive and blower systems for medicine**



What does an EC drive have to do with increasing patient satisfaction? As a result of demographic changes, patients are not only becoming older, but also have higher expectations. Increased competition among health care providers and growing demands for cost improvement require new technical tools.

Clinics, hospitals, pharmaceutical and other care providers need versatile, high-performance devices that provide optimum support for their medical applications. Whether those applications involve cooling, air-conditioning, lifting, pumping or driving-ebm-papst provides the air-moving and drive products that make diagnostics and therapy easier, more efficient and more cost-effective.

**Applications**

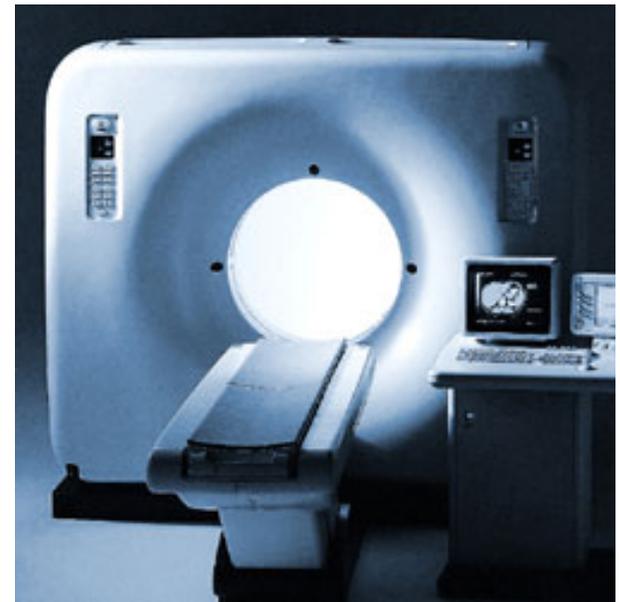
# Computer tomography

**Fast, precise and safe for the patient - Drive and blower systems for computer tomography**

Tried-and-tested drives and blowers from ebm-papst are used in these devices and systems. Low-noise performance, high performance through all diagnostic steps and operating reliability are of central importance here.

Turning, zooming in, positioning-only a constant speed provides accurate results. This is made possible by precision, high-performance EC drives from ebm-papst. The heart of every CT system is its "electronic brain." ebm-papst cools the high-performance electronics used for control, diagnostics and output in CT units. Our engineers have been part of the development of these devices from the beginning, applying all their experience to the optimal arrangement of the device cooling.

Products from ebm-papst, a renowned engineering partner and manufacturer of drive and cooling solutions for computer tomography, are used in many applications.



# Pump industry

## Save time and optimize your processes - Pumps and drives for medical technology

To give the highest quality of care, you need the best technology possible. By using state-of-the-art pump technology, you can increase the quality of processes, which also makes them faster and more efficient. Pump drives from ebm-papst are ideal for use in these devices and systems. Low-noise performance, high power density and precisely metered output of the pumped substances are of central importance in this context. Products from ebm-papst, a renowned engineering partner and manufacturer of pump drives, are used in many medical technology and industrial applications.

# Diagnostic devices

## Indicators of comfort - Drives and ventilation systems for diagnostics

What does drive engineering have to do with patients' waiting time and level of satisfaction? Smooth procedures in diagnostics are by nature very device-specific.

In diagnostics applications, the wants and needs of clinical users are of primary importance. Doctors want to obtain reliable results quickly, with as little intervention on their part as possible.

A variety of new functions allow the workflow to be made much faster and easier. Innovative drive functions carry out procedures in an accurate and time-saving manner, providing a fast diagnosis. Excellent diagnostic performance requires EC drives that can be precisely positioned, are vibration-free and are virtually silent.

Software and high-performance electronics are the prerequisite for fast diagnostic results. For effective cooling of these systems, ebm-papst\* will work side-by-side with you as a development partner. Together, we develop drive and ventilation applications that provide immediate benefits in comfort and productivity.

# Incubators

## **Comfort and steady warmth - Climate control systems and drives for incubators**

When a premature baby is kept in the protected and controlled atmosphere of an incubator, the quality of climate control is critical to the health of the child. Therefore, technical equipment is of vital importance to the medical care of premature babies in the first weeks after birth.

Various blowers and drives from ebm-papst are used in these devices and systems. High output constancy, vibration-free performance and reliability in every operating mode are the most important requirements here.

Products from ebm-papst, a renowned engineering partner and manufacturer of fans and blowers for incubators, have been in use in many applications for years.

# Centrifuges

## Convenience turns on this center - Drive systems for centrifuges

If we understand technology to be only a means to an end, use and handling will always become easier as a result. At the same time, however, procedures need to be made faster and diagnostic cycles shortened. This is particularly true of centrifuges.

A variety of drives from ebm-papst are used in these devices and systems. Precise controllability, high performance and virtually silent operation are the central requirements here.

This level of performance is made possible by powerful EC drives from ebm-papst. Its vibration-free performance, compact design and highly dynamic running make this technology the first choice of many manufacturers.

Constant power density, reproducible movements-and the user-friendly operation they provide-underscore their popularity among medical technicians.

# Wheelchairs

## **When comfort is the most important thing - Drive systems for wheelchairs and mobility equipment**

If innovation is to become the engine of the health care industry, the machine must adapt to the human being. This is particularly true of wheelchairs, travel scooters, powered wheelchairs and other mobility aids.

This mobility is made possible by powerful EC drives from ebmpapst. Because of its good control characteristics and vibration-free, virtually silent running, this drive technology is the first choice of many manufacturers. Constant power density and reproducible movements-and the user-friendly operation they provide-define a new standard of comfort and safety.

Products from ebmpapst, a renowned engineering partner and manufacturer of drive solutions for wheelchairs, have been in use for years in many applications.

# Rehabilitation equipment

## When mobility and performance count - Drive systems for rehabilitation equipment

Electronically commutated (EC) motors open up new avenues of mobility. In rehabilitation exercise equipment and a wide variety of other tools in this field such as wheelchairs, personal lifts and stairclimbers and patient beds, these powerful drives provide dependable and low-maintenance performance. Because of its continuous speed control and vibration-free, virtually silent running, this innovative technology is the first choice of many manufacturers. Constant power density and reproducible movements-and the user-friendly operation they provide-define a new standard of comfort and safety. Products from ebmpapst, a renowned engineering partner and manufacturer of drive solutions for rehabilitation and exercise equipment, have been in use in many applications for years.

# Respirator masks with air blowers

## A lifesaver for those with sleeping disorders - Blower solutions for respiration devices

If sleep is interrupted night after night by sudden pauses in breathing (apnea), serious health risks can result. Using respirator masks with air blowers can bypass or prevent this condition.

A variety of blowers from ebm-papst are used in these devices and systems. Low-noise performance and absolutely reliable constancy of the therapeutic pressure determined in the sleep lab are of central importance in this application.

Durable, maintenance-free EC direct current motors with outstanding control characteristics, in combination with centrifugal blowers with aerodynamics optimally designed for use in respiration devices, are used in a wide variety of sizes and configurations.

Products from ebm-papst, a renowned engineering partner and manufacturer of blower solutions for respiration devices, have been in use for years in many applications. They allow you, too, to get a restful night's sleep.

# Drives for operating tables and chairs

## Keeping up with modern medicine

### Drive solutions for surgical equipment

When quick changes to device settings are required during surgery, these can be done in any direction desired with convenient control. Thanks to precise positioning and reproducible movements, workflows in the operating room can be made safer, easier and more streamlined. One hand movement is enough to bring the patient into the desired position. Memory functions support repetitive operation steps and speed up the medical workflow.

These operating tables and chairs feature EC drives from ebm-papst. Compact, on-demand power, precision positioning and virtually silent operation are the most important requirements for this task.

Durable, maintenance-free EC direct current motors with outstanding control characteristics, in combination with reliable DC motors, are used in a wide variety of sizes and configurations.

Products from ebm-papst, a renowned engineering partner and manufacturer of drive systems for operating room tables and chairs, are used in many applications.

**CONTACT US**

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