

ebm-papst at the COMPAMED trade show

Innovative Fan and Drive Engineering for Medical Technology Applications

Compamed is the world's leading trade show for high-tech medical technology. This year, the trade show is taking place from November 18-21, 2019. ebm-papst will present innovative fan and drive engineering solutions for the medical sector in hall 08B at booth 8BH27.

Centrifugal fan for alternating pressure mattresses

From the ventilation technology field, ebm-papst will show innovative solutions such as the RV45 DC centrifugal fan. It comes with or without integrated electronics – depending on which design is most suitable for the application. The fan is used for applications in which dynamic air transport with high static pressure increase is required. Respirators, breathing masks, and anti-pressure ulcer systems are all examples. Alternating pressure mattresses are prophylactic measures that reduce the pressure on specific areas of skin when people are confined to their beds. The centrifugal fan pumps the air-filled chambers in a mattress, changing the patient's position and thus preventing bedsores. Low noise generation is important here to avoid disturbing the patients' sleep.

Drives for medical applications

In medical technology, complex requirements for standards and documentation go hand in hand with complex requirements for the technology used. They focus on reliability, precision, extremely smooth operation, and low heat generation. The technology's drive power, transmission variants, reduction stages, closed-loop control systems or connection technology must be perfectly matched to the relevant application. The individually configurable external and internal rotor drive systems from ebm-papst are based on electronically commutated motors and are ideal for such applications. The modular system for drives enables users to create customized variants by combining a variety of interfaces, transmission types, brakes, encoders, and more.

The compact, efficient, and intelligent drive systems are used in a range of medical systems such as dentists' chairs and x-ray, diagnostics, and treatment devices. When it comes to surgery, these drives ensure that lighting systems are optimally aligned, or operating tables are precisely positioned. ECI-42 drives feature a compact installation space, making them ideal for use in stairlifts that require leveling, for example.

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Fig. 1: The RVE45 centrifugal fan is used in medical technology in alternating pressure mattresses for anti-pressure ulcer treatment, where it prevents patients from developing bedsores.

Fig. 1 ebm-papst
Characters 2,300
Tags centrifugal fan, medical technology, anti-pressure ulcer,
alternating pressure mattress, modular system
Link <https://idt.ebmpapst.com>
<https://idt-config.ebmpapst.com> online portal

About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen, Germany, is the world's leading manufacturer of fans and motors. Since the technology company was founded in 1963, it has continuously set the global industry standard. With over 20,000 products in its range, ebm-papst provides the best energy-efficient, intelligent solution for virtually every ventilation or drive engineering task.

In fiscal year 2018/19, industry leader ebm-papst generated revenues of 2.18 billion euros. It employs over 15,000 people at 28 production sites (e.g. in Germany, China and the US) and in 48 sales offices worldwide. Fans and motors from the world market leader are used in most industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automotive and drive engineering.

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