

ebm-papst at Motek 2023

High-performance motor for individual drive systems

Motek, the international trade fair for production and assembly automation, will take place in Stuttgart from October 10 to 13, 2023. In Hall 7, Booth 7317, ebm-papst will be presenting new drive solutions, such as the modular drive system, for automation in a new performance class.

Modular drive system with new performance class

To cover even higher power levels in automation, ebm-papst has expanded its existing ECI drive series. The new BLDC motors are based on the internal rotor principle with safety extra-low voltage (24 / 48 VDC), and have a diameter of 80 mm and a rated output of up to 750 watts. By combining different modules, they can be individually put together to create a complete drive system. Encased in a robust metal housing, degree of protection IP54 is achieved as standard. The modular drive system includes planetary gears with different reduction ratios as well as encoder and brake modules. Hall sensors for detecting the rotor position are currently integrated for operation on a remote drive controller; other integrated electronics modules such as speed or position controllers with an optional bus interface are set to follow.

Construction kit system enables individual drive systems

Previously, it was not unusual for there to be long wait times for the perfect drive system, as this often involved having to develop individual solutions first. The modular drive system from ebm-papst now allows the quick creation of custom drive solutions. The individual drive modules can be combined through standardized interfaces. Just like a construction kit, customers can combine the motor online with the appropriate power, brakes, encoders, electronics, and planetary, spur gear or angular gearboxes in no time at all.

Intelligent drives with EtherCAT interface

EtherCAT combine the advantages of Ethernet-based communication with the simplicity of classic fieldbus systems, thus avoiding complex IT solutions. Within the ECI series from ebm-papst, drives, for example in size 63 modular drive systems, are already established with an integrated BUS interface called K5 electronics functionality. Now the internal rotor motors can also be addressed via EtherCAT. To achieve this, high-performance interface electronics have been added to the drive housing. The advantages for decentralized drives lie primarily in the synchronization of several axes, the reduced time and effort required for integration, and a space-saving design within the machine.

You can register for a free trade show ticket at www.ebmpapst.com/motek. The ticket is valid for the trade show from October 10-13, 2023.

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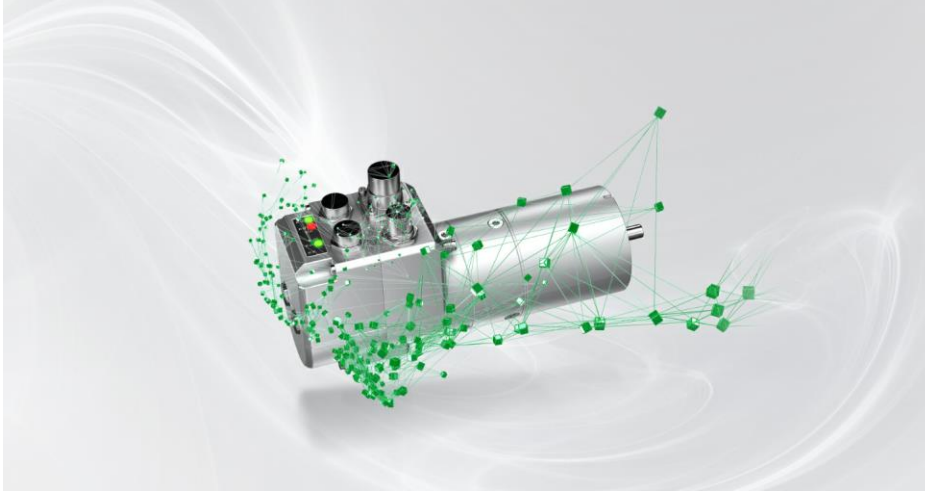


Fig. 1: The ECI 63 from ebm-papst's modular drive system with integrated BUS interface comes with the benefits of EtherCAT.

Fig. 1 ebm-papst
Characters approx. 3,300, including headings and sub-headings
Tags modularity, drive technology, drives, efficiency, BUS interface, Motek
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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 it was founded in 1963, the technological leader has set international industry standards with its core competencies in motor technology, electronics, digitalization, and aerodynamics. ebm-papst offers sustainable, intelligent, and tailor-made solutions for virtually every requirement in ventilation and heating technology.

In the 2022/23 financial year, the Group generated turnover of EUR 2.54 billion. It employs just under 15,000 people at 30 production sites (including in Germany, China and the U.S.) and in 50 sales offices worldwide. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning, and refrigeration technology, heating technology, information technology, mechanical engineering, intralogistics, and medical technology.

In St. Georgen, ebm-papst develops intelligent solutions for sectors such as intralogistics, electronics and medical technology. ebm-papst St. Georgen includes the Herbolzheim plant, the site in Lauf in Franconia and a production site in Oradea, Romania.

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