

SPS 2021: Return to in-person event for automation industry Innovative solutions for automation

The SPS – Smart Production Solutions – trade fair is one of the most important automation trade fairs and will be held in Nuremberg from 23 - 25 November. ebm-papst will be presenting smart and innovative solutions for drive and ventilation technology in Hall 1 at Stand 324.

Pioneering drive technology with industrial Ethernet technology

At SPS, ebm-papst will be unveiling ECI-63 internal rotor motors from its modular drive system that have been fitted with an EtherCAT interface. EtherCAT combines the advantages of Ethernet-based communication with the simplicity of classic fieldbus systems, thereby avoiding complex IT solutions. Within the ECI series, drives with integrated BUS interface have already been established for some time under the term 'K5 electronic functionality'. Now the internal rotor motors can also be addressed via EtherCAT. To achieve this, high-performance interface electronics including a multi-protocol chip 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.

RadiPac for greater power and efficiency

The RadiPac centrifugal fan series from ebm-papst has been continuously optimized in recent years. The impellers of the new fans are now made of high-strength, glass-fiber reinforced composite material, developed in line with the latest aerodynamic findings. This drastically reduces flow losses, and has also enabled energy efficiency and noise emissions to be further improved. The static pressure increase that can be achieved is over 2000 Pa, while noise levels have been reduced by up to 7 dB(A) compared to its predecessor. To accommodate different installation situations, the RadiPac series is available in a standard and a short version. Both versions are available as a motor-impeller combination or as a ready-to-install plug & play solution with support bracket.

DiaForce increases cooling capacity by 50%

The digital world is developing at rapid pace. Electronics are becoming more powerful and more densely packed. This poses challenges for electronics cooling. The DiaForce diagonal compact fan with integrated DC motor enables 50 percent more air performance with 6 dB(A) less noise. Its concept for success lies in the geometry of the impeller and housing, with characteristics that fall between those of an axial fan and a centrifugal fan. With the DiaForce diagonal compact fan, air is drawn in and blown out in an axial direction. Its geometry can reduce turbulence and increase pressure buildup. These performance features mean that the DiaForce can already meet the future requirements of electronics cooling. Possible application areas include data centers or base stations for mobile communications, autonomous driving, or artificial intelligence.

Pascal Schöpf
Trade press coordinator
Phone: +49 7938 81-7006
Fax: +49 7938 81-97006
pascal.schoepf@de.ebmpapst.com

Corinna Schittenhelm
Trade press coordinator
Phone: +49 7938 81-8125
Fax: +49 7938 81-98125
Corinna.Schittenhelm@de.ebmpapst.com

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Press office contact
ebm-papst Group
Phone +49 7938 81-7105

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Photo: At SPS, ebm-papst will be presenting solutions for both drive technology and ventilation technology.

Photo ebm-papst
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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 drives. Since the technology company was founded in 1963, it has continuously set the global industry standard with its core competences in motor technology, electronics, digitization and aerodynamics. With over 20,000 products in its portfolio, ebm-papst provides the best energy-efficient, intelligent solution for virtually every ventilation or drive-engineering task.

In fiscal year 2020/21, the "hidden champion" generated revenues of € 2.129 billion. The group employs roughly 15,000 people at 29 production sites (in Germany, China and the USA, to name but a few) and in 51 sales offices worldwide. ebm-papst sets the benchmark with their fan and drive solutions which are used in almost all industries, such as ventilation, air conditioning and refrigeration, heating, automotive, information technology, mechanical engineering, household appliances, intralogistics and medical engineering.

Pascal Schöpf
Trade press coordinator
Phone: +49 7938 81-7006
Fax: +49 7938 81-97006
pascal.schoepf@de.ebmpapst.com

Corinna Schittenhelm
Trade press coordinator
Phone: +49 7938 81-8125
Fax: +49 7938 81-98125
Corinna.Schittenhelm@de.ebmpapst.com

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