

„Power-to-Motion“ drives and compact high-performance fans

Innovative drive technology and equipment cooling

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Industrial systems and automotive solutions today are aiming at providing not only energy-saving products but also ones that provide maximum efficiency. The compact drives of the Black Forest manufacturer is the company's response to this development. The wide range of motors enables a multitude of uses. The same applies to fan solutions where, performance, efficiency and compact dimensions also play a significant role.

Every application has its own specific requirements. The product range for example, offers not only sturdy, cost-favourable brush motors (BCI), high dynamic electronically commutated internal rotor motors (ECI) but also quiet running, external rotor motors (Variodrive and Variodrive Compact) with high torque. Whether it is a question of perfect control employing the simple PWM control for brush motors or digital control for electronically commutated motors, the drives are available with integrated control or external connections depending on the version in question. For simple movement, high torque or dynamic speed control, we offer the right drive for the corresponding application. Whether DC or EC technology, all motor versions are adapted exactly to the drive and brake solutions so that an optimum drive system can be offered.

In the new compact devices with increasingly higher component density, it is quite natural that heat loss increases. The manufacturer's new S-Force fan takes this into account. With up to 600 Pa pressure increase, they currently represent the most powerful axial compact fans of their class worldwide. Alone this version provides a high discharge rate with a high pressure level. The new S-Force generation devised as a radial blower (Fig. 2) improves this record yet again with up to 1400 Pa. Even maximum working pressure requirements can be duly met.

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Fig. 1: A wide variety of drive solutions from BC, EC to external rotor motors with and without drive or brake

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Fig. 2: High-performance, extremely compact radial fans