

The future of intralogistics

Innovative Drive Engineering for Automated Guided Vehicles

Automated guided vehicle systems have been established in intralogistics for quite some time. These multi-faceted, agile helpers require dynamic, compact drives that meet tighter requirements for transport speed, positioning accuracy and service life. Drives from ebm-papst are ideal for use in AGV.

Drives for special requirements

Automated guided vehicle (AGV) systems transport a wide range of goods with varying weights. For their tasks, the wheel motors and drive systems for lifting equipment or load-securing devices must fulfill special requirements. The drives in the ECI series from ebm-papst are specially designed for use in AGV systems.

Low weight for efficient work

In the most powerful variant of sizes ECI-63 and ECI-80, the active components (wound stator and rotor equipped with magnets) are just 60 mm long, so they can easily be used in the tight installation spaces of AGVs. Their compact design delivers additional benefits: The drives' low weight enables the AGVs to work extremely efficiently since they can manage longer routes and time without stopping to charge the energy storage unit they are carrying. Fewer charging cycles conserves rechargeable batteries, increasing their service life.

Free selection of motors, transmissions and brakes

Thanks to their modular construction, the motors can be flexibly combined with the control electronics, transmissions, encoders and brakes desired. Alongside planetary and spur gears, space-saving crown gearheads are also available. When it comes to control electronics, customers can choose among many application-appropriate options: from electronics with Hall sensors for rotor position detection to positioning-capable, fully integrated control electronics with a bus interface. With diameters of 42, 63 or 80 mm the compact, electronically commutated, brushless internal rotor motors cover the power range of 50 to 750 W.

Fast availability for preferred types

The drives fulfill the requirements for degree of protection IP54 and are available with industrial connectors whose centrifugal angled plugs with bayonet connectors can be rotated and engage automatically. Preferred types are ready for shipment within just 48 hours, so users can quickly start their development work.

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February 19, 2019 - Page 1 of 3

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Fig. 1: Automated guided vehicle systems have special requirements for drives that the drives from ebm-papst are designed to fulfill.



Fig. 2: With diameters of 42, 63 and 80 mm respectively, the drives in the ECI series cover a power range of between 50 and 750 watts for use in AGVs.

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Pictures	ebm-papst
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About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors. Since it was founded, the technology company has continuously set global industry standards: from the digital interconnection of electronically controlled EC fans to aerodynamic improvements for fan blades to the use of eco-friendly materials.

In fiscal year 2017/18, the company achieved sales of over € 2 billion. ebm-papst employs over 15,000 people at 27 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 many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automotive and drive engineering.

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