

Press release

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Hermetic Door Systems: Key Benefits and Where They Matter Most

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What are hermetic door systems?

Hermetic door systems, also known as airtight or sealed doors, are precision-engineered to provide an airtight seal when closed. Unlike traditional doors, which may allow the passage of air, dust, and contaminants, hermetic doors are designed to block all external elements from entering or exiting a controlled space. These systems are commonly used in industries and environments where hygiene, safety, or environmental control are critical.

Key Benefits of Hermetic Door Systems

Superior Contamination Control: Hermetic doors are essential in maintaining sterile environments. Their airtight seal helps prevent the ingress of dust, pathogens, and airborne particles. This is particularly vital in cleanrooms, hospitals, and pharmaceutical labs where contamination could compromise safety or product integrity.

Energy Efficiency: These doors improve energy efficiency by minimising air exchange between rooms with differing temperatures or humidity levels. In climate-controlled environments such as cold storage units or laboratories, hermetic doors help maintain stable conditions, reducing the load on HVAC systems.

Improved Sound Insulation: Hermetic sealing significantly reduces sound transmission, making them ideal for areas where noise isolation is important. This feature is especially useful in medical imaging rooms (like MRI suites), broadcasting studios, and testing labs.

Enhanced Fire and Smoke Containment: Many hermetic door systems are designed to be fire-rated, providing an additional layer of protection in the event of a fire. Their ability to contain smoke and flames can help buy time for evacuation and limit damage.

Automatic Operation and Hygiene: Most hermetic door systems are automatic and touch-free, reducing the risk of germ transmission - an increasingly important feature in healthcare and food processing sectors. The smooth, seamless surfaces also make cleaning easy and effective.



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Where Hermetic Doors Are Most Needed

Hermetic door systems are not just a technical upgrade - they are a necessity in the following sectors:

- **Healthcare Facilities:** Isolation rooms, ICUs, operating theatres, and imaging departments benefit from infection control and pressure management.
- **Pharmaceutical and Biotechnology Labs:** Cleanrooms, production lines, and containment zones require strict control over airborne particles and contamination. 2 | 3
- **Food and Beverage Industry:** Areas such as packaging, refrigerated storage, and processing units benefit from hygienic, climate-controlled separation.
- **Electronics and Semiconductor Manufacturing:** In dust-sensitive environments, hermetic doors help maintain ultra-clean standards and prevent electrostatic interference.
- **Cold Storage and Logistics:** Warehouses and cold rooms rely on efficient sealing to preserve temperature-sensitive goods and reduce energy loss.

GEZE MCRdrive: Precision in Motion

GEZE MCRdrive is a modular sliding door system for areas of buildings where hermetic air tightness is required.

What makes it special: GEZE MCRdrive offers a standard-compliant and certified overall system and fulfils the requirements of building projects with modern and appealing design concepts. In addition, thanks to its modular design and uniform profile and sealing system, the GEZE MCRdrive provides configuration options for maximum customisation to customer needs.

From planning, installation and commissioning to service during operation, the GEZE MCRdrive offers a complete package that can be customised and combines functionality, product safety and user comfort.



Whether you're planning a new facility or upgrading an existing one, the GEZE MCRdrive is built to deliver reliability, efficiency, and peace of mind - door after door.

To find out more, visit: [GEZE MCRdrive | GEZE](#)

For any general enquires, please contact us via our website or email:

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Note to editors: Founded in Germany in 1863, GEZE is one of the world's leading manufacturers of door and window control systems. Investing millions in research, development and manufacture of innovative solutions, GEZE sets the global standard for advanced door and window technology. GEZE UK is the official company name and it originates from a German abbreviation, so should always be spelt in capital letters. The background: In 1901 Master locksmith Victor Gretsche joined the company and the



business was renamed Gretsche & Co. GmbH. GRETSCHECO was abbreviated to **GE** for the German

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pronunciation of the letter G and **ZE** for the letter C.

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