

## Press release

09.03.2023

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### Holistic fire protection for intralogistics - trade fair highlights from WAGNER

- **At LogiMAT 2023 in Stuttgart, WAGNER Group GmbH will present fire protection solutions for the logistics industry.**
- **Focus on safety for compact storage systems, storage for lithium-ion technology and deep-freeze warehouses**
- **Information about holistic fire protection in hall 7, booth C15**

**Langenhagen.** At this year's LogiMAT from April 25 to 27 in Stuttgart, WAGNER Group GmbH will be showing its latest fire protection technologies for intralogistics in Hall 7 at Stand C15. The company is focusing on various fields of application that have special requirements in terms of fire protection: Compact storage systems, deep-freeze storage and - as a hot topic - storage of lithium-ion batteries.

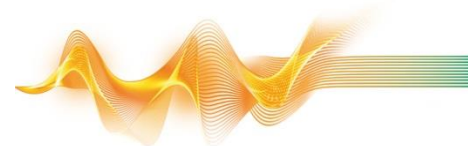
"According to statistics, every two minutes a fire breaks out in Germany and often causes considerable damage. In today's global competitive environment, no company can afford loss of goods or downtime. To protect people and goods, to maintain operational processes and the ability to deliver, companies are dependent on absolutely reliable fire protection," reports Steffen Springer, Managing Director of WAGNER Group GmbH. "At LogiMAT, we will present which fire protection options are particularly effective in which application areas."

In automated **compact storage systems**, the compact storage method of closely arranged and stacked containers leads to a high storage density and concentration of values - and thus to a great risk of loss or even operational interruption in the event of a fire. Fires in compact storage facilities are difficult to fight with conventional extinguishing methods. Another fire risk is the high degree of automation: Cable fires or, for example, overheating on conveyor motors are possible causes of fire. WAGNER will present industry-specific protection solutions at the trade fair.

#### **Fire prevention is a priority**

Fire protection is an important issue for refrigerated and deep-freeze logistics, because ice and cold do not protect against fire here. The wooden pallets usually used to store goods as well as the packaging material are highly flammable in the cold and dry air. In addition, technical defects in control cabinets, cooling units, or vacuum packaging systems and others can cause fires. Flammable insulating materials such as mineral wool or polystyrene installed in the deep-freeze warehouse can also pose a fire hazard. The construction of the storage rooms in ever larger dimensions with their narrow and high aisles and ever decreasing spaces between the shelves promotes rapid spread of the fire and makes it difficult to extinguish using conventional systems or the fire brigade. It is therefore important to prevent the development and spread of fire in cold storage.

The latter also applies to the storage of lithium-ion batteries. Individual fire protection measures are urgently needed here. Because once an energy storage device with lithium-ion technology has caught fire, triggered for example by a thermal runaway, it can no longer be extinguished and must burn down – ideally in a controlled manner. The entire inventory can be lost - a worst-case scenario that can be prevented with a specific fire protection solution.



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To demonstrate what optimal fire protection for the storage of lithium-ion batteries can look like, the WAGNER Group GmbH presents their solution for a high-bay warehouse from the company KETTLER Alu-Rad GmbH, in which up to 50,000 e-bikes are packaged ready for shipment and stored with built-in batteries. The solution minimizes the effects of a thermal runaway, avoids the spread of fire and thus ensures the ability to deliver. Storage in the normal storage environment is possible without the batteries having to be deposited in appropriate containers, as is the case with other hazardous substances. This significantly reduces the space requirement as well as the personnel and logistics costs. In addition, the solution was rounded off by organizational fire protection measures. With the help of their own fire tests, the experts from WAGNER defined the optimized, smallest possible distance between the e-bikes stored in boxes. This ensures efficient storage utilization. The fire protection solution developed individually for KETTLER is one of the first VdS-approved for storing lithium-ion batteries.

Every holistic fire protection solution from WAGNER is based on the use of the certified TITANUS® aspirating smoke detectors, which are up to 2,000 times more sensitive than conventional point detectors and detect a fire source as early as the development phase (pyrolysis). The combined oxygen reduction system OxyReduct®, which is also part of the fire protection system at KETTLER, ensures that a fire cannot break out or spread under defined conditions.

The OxyReduct® cabin at the trade fair stand will show the visitors very clearly how efficient oxygen reduction is in actively preventing fires. Here, it is presented live that no fire can be ignited in an oxygen-reduced atmosphere.

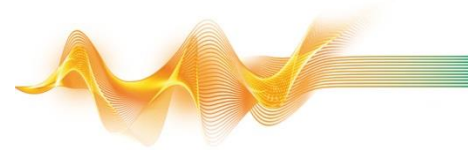
In addition, WAGNER's fire protection experts will be happy to advise interested parties on site regarding fire prevention, early fire detection, firefighting and risk management in all areas of logistics.

### Photos:



Caption: Steffen Springer, Managing Director of WAGNER Group GmbH

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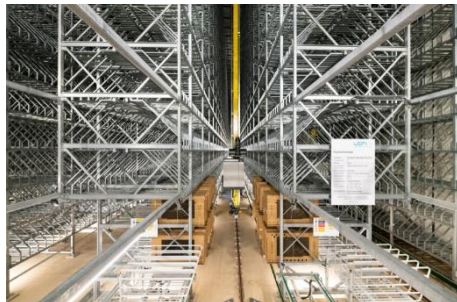
Caption: The WAGNER product range with systems for active fire prevention, early fire detection, firefighting and hazard management

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Caption: The OxyReduct® system from WAGNER ensures active fire prevention in the high-bay warehouse at KETTLER Alu-Rad.

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Caption: In the high-bay warehouse of the KETTLER Alu-Rad Company, where up to 50,000 e-bikes can be packed ready for shipment and stored with batteries installed, a fire protection solution from WAGNER ensures active fire prevention.

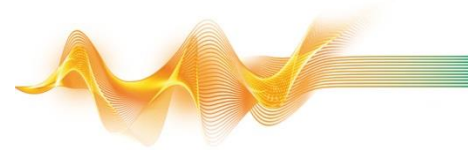
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### About WAGNER Group

Since 1976, WAGNER Group GmbH, based in Langenhagen (Germany), has been developing and implementing integrated fire protection solutions and has established itself as an innovative solution and system provider with around 700 employees at 21 locations in 13 countries worldwide. In the field of fire detection and fire prevention, WAGNER group is one of the technology leaders with more than 700 patents.

The core competence is in the area of technical fire protection. Here, WAGNER develops individual solutions with its own products and systems in the fields of fire detection (TITANUS®), fire prevention (OxyReduct®), fire extinguishing (FirExting®) and organization/hazard management (VisuLAN®).

For further information, please visit [www.wagnergroup.com](http://www.wagnergroup.com)



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