



MXOne – Firefighting Turbine

Innovative firefighting at the LEIPA paper mill

Identifying the best fire protection solution for open storage facilities in the recycling industry is a major challenge due to the various protection areas with different requirements for the extinguishing system. At LEIPA in Schwedt, Germany, for example, it is necessary to effectively protect not only many tons of paper and cardboard but also the adjacent infrastructure. In order to obviate fluctuating raw material prices, the company planned to increase the storage capacity for waste paper. Since the available space is limited, the project goal was to stack the waste paper higher and reduce the size of the aisles. The new conditions made it essential to realign the fire protection system.

Protected areas

At LEIPA, the prioritization of all goods to be protected in the plant is structured as follows:

Category A – Protection of machinery and equipment

Category B – Finished goods (paper, cardboard)

Category C – Raw materials (waste paper)

The value of the goods to be protected, the replacement time, and the potential loss of production play an important role in the assessment. Microbial and chemical processes, environmental influences, technical failure, human negligence, or arson can quickly lead to a fire.

LEIPA works continuously with FM Global to optimize fire protection in all three categories. For the protection of **Category C**, a robust fire protection solution was sought that could effectively cover the large storage area.



LEIPA is an independent group of companies that has long been committed to environmentally friendly processes and technologies in the fields of paper, packaging, the environment, and logistics. As the European market leader, the LEIPA Group processes 1.35 million tons of waste paper annually into high-quality paper and packaging solutions. LEIPA Group GmbH acts as the group's management company and provides central services. The family-run LEIPA Group employs over 1,500 people and generates an annual business volume of over 800 million euros.

The solution: MXOne firefighting turbine

The MXOne firefighting turbine from Minimax was the ideal solution for meeting the fire protection requirements changed by the storage project. With 360° swivel capability and a long range of up to 100 m, it can provide comprehensive protection for the waste paper and recyclables storage areas and effectively combat fires anywhere in the open-air storage facility.

After the new requirements were met in convincing performance tests on site, LEIPA had two turbines installed on pedestals. Contrary to the original plan, in the event of a fire in the raw materials storage area, the roofs and facades of the buildings adjacent to the storage area will also be cooled to prevent the fire from spreading to them.

The extinguishing turbines are therefore a valuable addition to fire protection and not only protect the areas designated to Category C as required, but also contribute to securing the important Category A areas.



„The MXOne firefighting turbine from Minimax has more than met our requirements and proven to be the perfect addition to our existing fire protection concept.“

Steffen Deszpot,
Technical Director

Modern fire protection for demanding environments

The MXOne is particularly suitable for open spaces and open halls where the combustible material is too far away from possible stationary fire protection systems. Thanks to its turbine technology, the MXOne achieves throw ranges of up to 100 m and can be raised and tilted quickly and continuously. This gives it an extraordinary range of effectiveness, in which the throw range can be adjusted at any time. The ability

to use foam concentrate extends its range of applications to areas with fire loads such as liquids or plastics. The MXOne firefighting turbine also meets the requirements for systems intended for use in harsh industrial environments. It can be used in areas with an ambient temperature of -15 °C to 50 °C and, despite its robust construction, is easy to operate and requires little maintenance.



Advantages at a glance:

- Fast firefighting and ambient cooling through sophisticated water mist technology
- Pinpoint automatic or manual alignment in full jet up to 100 m
- Simple, safe operation via remote control
- 360° swiveling, inclination angle -19 to +43°
- Easy to integrate into existing fire suppression systems
- Variety of mobile and stationary mounting variants
- Certified by FM Global

