Gimar Montaz Mautino (GMM)

Anticipating the risks of rollers blocking

GMM has developed a new safety device that constantly monitors the rotational speed of the rollers that support the traction cables of aerial lifts. This innovation was tested in real conditions in an environmental test chamber.

The Grenoble-based company Gimar Montaz Mautino (GMM), which has specialised in aerial lifts for more than half a century, wanted to improve the safety system for detecting blocked rollers. It developed an innovative solution known as SecuRM.

Anticipating risks

SecuRM is a new electronic safety system that anticipates the risks by constantly monitoring the rotational speed of the rollers. Thanks to this system, the operator can take action in advance without waiting for a roller to become blocked: simply noting that one roller is rotating less quickly than the others conveys the information that there is a risk of blocking. The operator can then stop the equipment and send a maintenance technician on site to tackle the problem.

Testing in an environmental test chamber

After the safety device was finalised, the GMM engineers were still keen to be able to test the resistance capacity of the electronics in real conditions, in particular in cold weather. However, as the company did not have the required equipment, it decided to contact Cetim.

The Cetim engineers set up a test bench with sensors in an environmental test chamber to assess the system in extremely cold conditions. At the end of the tests, which were carried out over the course of a day, the performance of the electronic system was verified and the GMM engineers were completely reassured.

The study also demonstrated the particularly advantageous effects of the magnets - even in cold weather - that are incorporated into the system. Having been tested throughout the winter of 2010 on two chair-lifts, the new system is in the process of being industrialised with a view to being put on the market.

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OUR CUSTOMER

Corporate name
Gimar Montaz Mautino (GMM)

Area of business
Design and construction of aerial lifts.

Turnover
10 million euros

Employees
27

Cetim's asset

Thanks to its expertise in aerial lifts and fatigue and its test benches equipped with sensors in an environmental test chamber, Cetim can carry out resistance tests at temperatures as low as - 30 °C.

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