



Press release 3/2019

KAITEK FLASH BATTERY AT THE 2019 GIS TECHNICAL SEMINAR: GREEN TECHNOLOGICAL INNOVATION AND ARTIFICIAL INTELLIGENCE FOR INDUSTRY 4.0

CEO Marco Righi gave a speech on switching from lead-acid to lithium batteries during a GIS conference entitled “Green technological innovation in the sector of lifting and industrial & port handling” in Italy on 3 October.

Italy, 3 October 2019 – Today the spotlight is on GIS – Giornate Italiane del Sollevamento e dei Trasporti Eccezionali, i.e. Italian Lifting and Heavy Transport Show, where Kaitek Flash Battery’s CEO **Marco Righi** gave a speech. He made his contribution during a conference entitled “**Green technological innovation in the sector of lifting and industrial & port handling**”, which took place from 9:30 am to 11:30 am in Hall H of the Piacenza Expo exhibition centre.

After the speech, Carlo Molesini (Sales Director of **Platform Basket**) and Emilio Cavazzini (Operations Director of **Elettric80**) discussed their experiences using lithium batteries for **lifting and automated logistics**.

This is the era of the fourth industrial revolution, and today’s 4.0 factories contain machines that are fully interconnected, enabling them to communicate with each other and carry out **self-diagnosis** and **preventive maintenance procedures**. Against this backdrop, Flash Battery has developed its very own **data collection and processing system**: with approximately 18 million logs in total (around 50,000 a day), the Flash Data Centre manages 130 connected units in Norway, Sweden, Russia, Romania, Germany, the United Kingdom, France, Belgium, Greece, Italy, Spain, Portugal, Canada, the United States, Mexico, Peru, Chile and Argentina, with data sent from 4,000 batteries.

“There’s a genuine battery management revolution underway in the increasingly digital and interconnected machines of the industry 4.0 world. In order to improve the automation and efficiency of the industrial vehicles and systems of our clients, we developed the Flash Data Centre, which remotely monitors our batteries in 54 countries worldwide”, stated Marco Righi. It enables **in-depth diagnostics** to be carried out and detailed reports to be produced for individual batteries. The data can then be analysed so that **exceptionally quick** and **targeted assistance** can be provided. Since Flash Battery introduced its remote monitoring service in 2016, there has been absolutely no machine downtime caused by batteries, and 93% of faults have been dealt with before they had an impact.

The company is investing resources in the integration of **artificial intelligence and machine learning** in this **predictive maintenance** system.

“We’re working on two development fronts with new digital technology. Data use and connectivity are the main focus of the first, which involves information storage and centralisation. The second is analytics: once we’ve collected data, we make the most of it by analysing performance and constantly monitoring the operating parameters of batteries, drawing up statistics and setting up alert systems for faults and inefficiencies”, said the CEO in conclusion.

“Since we started working with Flash Battery, we’ve enhanced the technological capabilities of our laser-guided vehicles,” said Emilio Cavazzini, Operations Director



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of Elettric80, a multinational that specialises in integrated logistics automation solutions for companies that produce consumer goods in the *food, beverage & tissue* industries.

At its stand at Piacenza Expo (**Hall 1, C24 - D25**), Flash Battery is presenting lithium batteries for lifting and automated logistics that can help to **boost work cycles, enhance energy density** and provide the scope for **quick and partial charging**.

The company's turnover doubled in 2018, and it plans to sustain this level of growth by opening a **new industrial site** in northern Italy in early 2020. It will span more than 20,000 m² in total, with 1,500 m² of offices and a production area covering 3,200 m², making it more than five times bigger than the original premises. € 6 million have been invested in the construction of the facility, which will have room for more than 150 members of staff.

"As well as enabling us to boost our production capacity, building the complex will lay the foundations for further increases to investments in R&D, as part of our industry 4.0 technological vision", stated Alan Pastorelli, partner and technical director.

Kaitek Flash Battery was founded in 2012. By 2018, it had a turnover of €13.2 million and 45 members of staff. It designs and produces lithium batteries for industrial machinery and electric vehicles, which it supplies to manufacturers with moderate production volumes and significant customisation needs.

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