Custom battery solutions for construction machines

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Stand A5.339

FLASH BATTERY IS OFFERING TAILORED BATTERY SOLUTIONS FOR CONSTRUCTION OEMS LOOKING TO ACCELERATE THEIR ELECTRIFICATION JOURNEY

The transition towards electrifying construction machines represents one of the most complex challenges for manufacturers today. High performance, power and run time are essential, yet the push for greater environmental sustainability is undeniable. At the forefront of this transition is Flash Battery, an Italian manufacturer of custom lithium batteries for industrial machines and vehicles.

The battery journey at Bauma

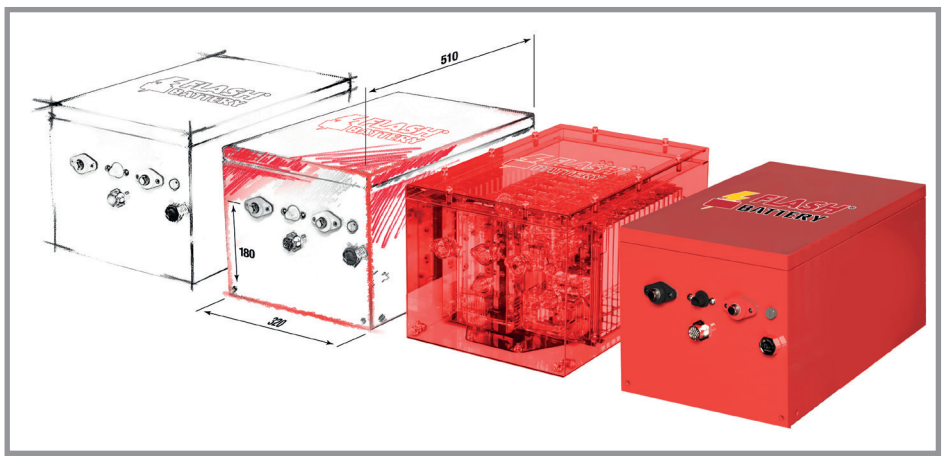
With a key presence at Bauma, Flash Battery is set to showcase its proprietary technology and demonstrate how it effectively addresses the electrification needs of the construction sector. With a steadfast commitment to R&D and a proven industrial methodology, Flash Battery provides tailored solutions that preserve vehicle performance while simultaneously ensuring greater operational efficiency.

Pavilion A5 – Booth 339 will not just be coordinates at Bauma but the gateway to an immersive journey into the world of Flash Battery lithium batteries. Visitors will embark on a comprehensive exploration of the development process behind Italy's number 1 custom batteries for industrial machines. Booth A5-339 promises a fully interactive experience with Flash Battery's proprietary technology.

The battery journey will unfold across three key elements. The first is the patented Battery Management System (BMS) with high-power (20A) active and passive balancing designed to optimise battery efficiency, safety and service life. The second is the customisation process that develops lithium batteries tailored to each application. Last but not least is the proven industrial process, where synergistic collaboration between customers and all company departments transforms design ideas into tangible and personalised electrification solutions.

Electrifying construction machinery

Today, electrifying excavators, aerial platforms, mini-dumpers, cranes, and handlers is no longer a vision but a reality. Thanks to electrification technology tailored to the specific requirements



ABOVE: **The Flash Battery Journey from prototype to production**

BOTTOM RIGHT: **Flash Battery lithium batteries for industrial machines and vehicles**

of these vehicles, it is now possible to maintain the same performance and power as combustion engines with the added benefits of lower operating costs and greater sustainability. At Bauma, Flash Battery's sales team will guide visitors through each stage of this technological journey, offering detailed consultations to show how Flash Battery's lithium batteries can meet the unique needs of your construction machinery.

Flash Battery's latest generation LiFePO4 cells

deliver high energy density and maximum safety, reaching up to 190Wh/Kg. This technology meets the substantial energy demands of construction yard machines, while rapid charging capabilities extend daily run time, enhancing flexibility and minimising downtime. In addition, Flash Battery's customisation expertise is reflected in a portfolio of over 700 different custom battery models ranging from 24 to over 800V, designed to ensure versatility and adaptability, optimising the use of available space on the vehicles. Lastly, sustained performance is ensured by a battery service life of over 4,000 complete cycles, which often outlasts the life of the machine itself, and by the Flash Data Centre, the proprietary remote battery monitoring system that performs predictive maintenance 24/7, reducing ordinary maintenance costs and downtime to zero.

Bauma 2025 presents the ideal moment to explore the infinite possibilities of electrifying construction machinery. Flash Battery's booth will be the go-to destination for OEMs looking for tailored, high-performance technologies that supports global sustainability goals. This is a rare opportunity for visitors to immerse themselves in the core of electric mobility applied to the world of construction, and witness up close the ground-breaking green innovations currently transforming the industry. **iVT**