

FLASH BATTERY

# Reliable batteries for the heavy-duty sector

**IVT EXPO**  
INDUSTRIAL VEHICLE TECHNOLOGY

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NEW INNOVATION AND ADVANCING TECHNOLOGY MEANS BATTERY SOLUTIONS ARE INCREASINGLY FEASIBLE FOR USE IN LARGER CONSTRUCTION MACHINES



RIGHT: Part of Flash Battery's portfolio of lithium solutions for EVs

△ Atech is a leading player in the development and equipment for electric industrial vehicles. With many years of experience in the field of electrified drives, it is well placed to observe current trends within the industry – in particular the evolution of electrification within the heavy-duty sector.

"If you look at projects that were not feasible five years ago, they are now possible thanks to innovations and developments in technology," says Anton Eberharter, managing director of Atech GmbH. "The falling prices of components such as battery cells play a very important role here."

### Fast charging times

According to Eberharter, the principal requirement in this sector is the ability to implement high performance, large battery capacity and fast charging times in a cost-effective, flexible and durable manner. Furthermore, a broad product range with a modular system featuring as many identical parts as possible is optimal.

"I anticipate EVs becoming increasingly widespread in this area in the coming years due to their increasing flexibility and cost-effectiveness," he says. "The technology will continue to develop in order to further improve the range and charging

times. Alternative forms of propulsion such as hydrogen could also play an important role. There will also be an increased integration of digital solutions to optimise applications and energy efficiency. Overall, we see a promising future for electrification in the heavy-duty sector."

Eberharter states that requirements for modern battery systems include optimised charging processes through active balancing, a high number of charging and discharging cycles, little to no maintenance effort or cost, high power output with lightweight design, user-friendly operation, and preventive maintenance via remote data transmission and data analysis.

### Winning collaboration

Back in 2019 Atech was seeking a battery specialist to partner with, who met this complex criteria. It found one in Flash Battery, a leader in the design and production of custom lithium batteries. The synergy of the partnership between Atech and Flash Battery has since been providing manufacturers of German-speaking countries with complete electrification solutions.

"Due to its position in the market and its strong reputation, we went with Flash Battery," says Eberharter. "The company has impressive

technical know-how and considerable professional expertise in the battery sector as well as a wide range of products, not to mention a high degree of flexibility and the very good compatibility with the Zapi Group components we use."

### Competitive advantage

According to Eberharter, Flash Battery has a technological lead over its competitors on the market, something it – Atech – plans to build on.

"With our many years of experience in the field of electrified drives and our customer base, we can reach many customers on the market and win new customers for our applications. Flash Battery can also work with us to reach new companies for new solutions in this area."

Flash Battery will be at iVT Expo in Cologne showcasing its latest technology for vehicle electrification. Of particular note will be the Flash Data Center, its automatic real-time remote control system which uses the latest AI and machine-learning algorithms to guarantee the interconnection of all Flash Battery systems worldwide, allowing predictive maintenance. The topic of AI for smarter lithium batteries will also be discussed by Flash Battery CEO Marco Righi on Thursday 27 June, with a dedicated lecture. **ivT**



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