



## Saft's new ARROK® Li-ion batteries power the way to electrification for industrial off-road vehicles

- ARROK modular solution will help manufacturers of off-road vehicles take a simpler and more straightforward route to electrification to reduce development costs and shorten time to market.
- High and low voltage versions provide flexibility and simplify vehicle compatibility, with the emphasis on long duration and fast charging to maximize availability.
- Safe and robust, ARROK is designed and tested according to the toughest vehicle standards.

**Paris, September 14<sup>th</sup>, 2021** – Saft has launched ARROK® as a new breed of lithium-ion (Li-ion) battery tailored for off-road industrial vehicles. ARROK is designed to deliver both high energy content and fast charging within one hour. It maximizes the availability of heavy-duty vehicles for all off-road markets: construction, agriculture, mining, material handling, airport ground support and seaport industries.

Vehicles for these sectors are produced in low volumes, but with a broad array of applications and requirements compared with the car industry. Therefore, original equipment manufacturers (OEMs) need a battery solution that can easily be adapted to multiple vehicle types. Adopting a unique flexible approach reduces the lead time and expense of developing new vehicles and cuts down the requirement for type testing and certification.

The ARROK batteries are based on lithium nickel-manganese-cobalt oxide (NMC) electrochemistry to offer the highest energy density for longer autonomy. Saft's century-long experience also ensures reliable operation over a long cycle life across a wide range of temperatures.

Franck Cecchi, Executive Vice President of Saft's Mobility division said: "Saft's ARROK battery systems bring a new level of modularity. By combining top-notch voltage and energy capabilities,

with a compact size of 216 Wh/L and one-hour charge, ARROK opens up new opportunities for OEMs to easily electrify their existing diesel vehicles or to design new electric models.”

ARROK batteries can be combined to create battery systems rated at 48 to 900 Volts (V), providing from 4.2 to 750 kilowatt-hours (kWh) energy storage capacity, enough to power small, medium or large industrial vehicles over a full day, with a one-hour break for recharging.

ARROK battery systems are designed and manufactured at Saft’s Nersac factory in France.

### **About Saft**

Saft specializes in advanced technology battery solutions for industry, from the design and development to the production, customization and service provision. For more than 100 years, Saft’s longer-lasting batteries and systems have provided critical safety applications, back-up power and propulsion for our customers. Our innovative, safe and reliable technology delivers high performance on land, at sea, in the air and in space. Saft is powering industry and smarter cities, while providing critical back-up functionality in remote and harsh environments from the Arctic Circle to the Sahara Desert. Saft is a wholly owned subsidiary of TotalEnergies, a broad energy group that produces and markets fuels, natural gas and electricity.

We energize the world. [www.saftbatteries.com](http://www.saftbatteries.com)



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