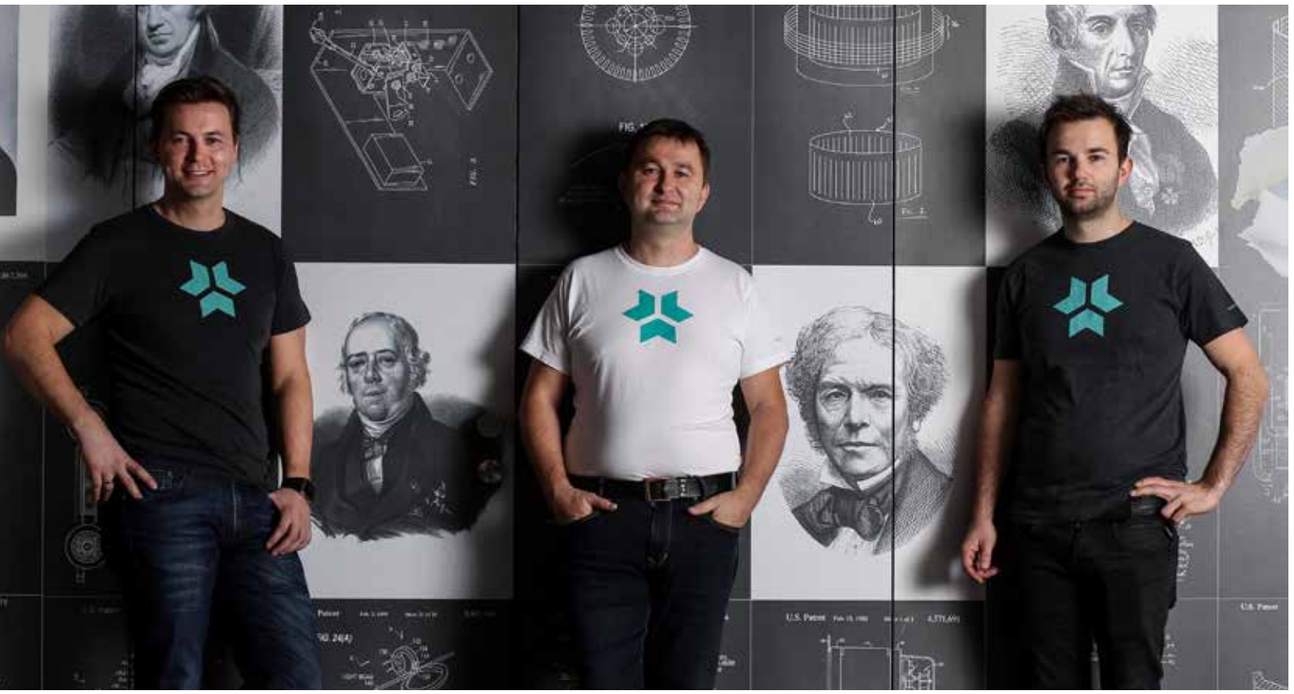


WE
DRIVE
THE FUTURE

KREISEL



BATTERY TECHNOLOGY PIONEER

We provide our customers with sophisticated battery technology solutions for a wide-range of mobile and stationary applications. Our patented KREISEL immersion cooling architecture with active thermal management stands for optimized performance, lifetime and safety.

KREISEL Electric GmbH is an international high-tech battery solution-provider based in Rainbach, Upper Austria. The company was founded in 2014 by three brothers, Johann, Markus and Philipp Kreisel. As part of the John Deere family, KREISEL Electric develops and manufactures battery technology for e-mobility and battery integrated high power charging. Its core competence also includes battery integration and testing, prototyping and serial production, and software development.

PREMIUM TECHNOLOGY SOLUTIONS

The sophisticated design and thermal management are key to optimized performance, lifetime and safety of every KREISEL battery. The cells in each KREISEL battery system are immersion cooled by a specially developed thermal fluid. The thermodynamic properties have the effect of a low temperature spread that helps to prolong the battery life.

The laser connection technology and the special contacting of the cells are designed for minimal internal resistance and thus influence efficiency. The compact arrangement of the cells in combination with the integrated safety features provide high safety in relation to energy density.

SAFETY FEATURES MINIMIZE THERMAL PROPAGATION

THERMAL SHOCK RESISTANCE

MECHANICAL STABILITY

MODULARITY











ENGINEERING THAT IS BUILT TO LAST

Through experience and know-how, the KREISEL engineers develop the necessary components to meet the requirements of our customers. All battery systems are designed according to international norms and have to pass the extensive on-site testing facilities. The ability to withstand different environmental conditions makes it possible to break new ground with KREISEL technology.
With high quality components and engineering expertise efficiently combined, our Tier 1 solutions are developed to meet the needs of OEMs. Supported by modern hardware and software, KREISEL develops high-tech battery systems and charging solutions. Our priority is to deliver products and services that our customers and partners can rely on.

ONE TECHNOLOGY, A VARIETY OF POSSIBILITIES.



CHARGING

The KREISEL CHIMERO is a commercial Battery Integrated High Power Charging platform for different grid connection scenarios. The integrated battery mitigates load peaks during vehicle charging, minimizing the need for expensive oversizing of cables and transformers. The CHIMERO is a holistic Plug & Play solution that allows the integration of renewable energy sources and direct payment options.





MARINE

Designed to meet the high DNV safety standards, KREISEL technology stands for the reliability and craftsmanship that is ready for exciting marine applications.
Due to the patented immersion cooling technology, KREISEL batteries are the perfect fit for delivering the required continuous high-power output for applications in the marine sector.

OFF-HIGHWAY

Together with John Deere, we develop battery technology for demanding off-highway applications. Our OEM customers benefit from the extensive technological experience and the reliable service network of KREISEL Electric. The in-market experience of KREISEL paired with the John Deere off-road equipment engineering, manufacturing and distribution expertise is poised to change the future of off-highway equipment electrification.



WHERE HIGH-TECH, KNOW-HOW, AND SUSTAINABILITY EFFORTS MEET.

Ever since its founding KREISEL has been pursuing a low CO2 emission profile policy. We are committed to working towards a net-zero production of our products. An EV battery is a large share of the carbon footprint, so by working towards carbon net-zero batteries, KREISEL Electric takes steps to a sustainable electrical transition.

Responsible sourcing and supply chain traceability is paramount. We are striving to source challenging materials, such as cobalt, in the most socially and environmentally responsible way, aiming to have best possible traceability of the battery supply chain.

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