

Battery research and development vaduz

The demand for mobile energy sources is becoming ever higher. Most applications are becoming smaller, lighter and smarter. At the same time, the resources used so far are becoming scarcer and alternative processes and materials have to be found. Through continuous investment in research and development, VARTA aims to maintain this balance between resource-saving products and technological progress, relying on a wide range of research projects aimed at sustainable marketable products.

VARTA AG conducts the main part of its research work at three locations. Several safety and in-house chemical laboratories as well as prototype construction department support the international VARTA development team in their daily work. The process development team manages the realization of the projects and implementation in highly automated large-scale production. The electronics and software of the battery packs are also developed in-house in order to react as quickly as possible to changing market requirements.

Research & Development at VARTA AG focuses on the further development of existing technologies, research of new materials and technologies for products and systems, as well as production engineering and quality assurance processes.

VARTA AG's research projects are divided into 7 areas that reflect the challenges in the current and future battery market. The goal of all projects are marketable products that meet the requirements in the respective field of application and at the same time are resource-saving and cost-efficient. In addition to new products, the focus is also on optimizing existing production processes.

The innovative spirit of Adolph M?ller, the founder of today's VARTA AG, is an essential part of VARTA's corporate culture. He registered his first patent in Germany as early as 1889. In the meantime, over 400 more patents have been added. The following examples are just a small part of VARTA's groundbreaking inventions, which have not only been incorporated into products, but have also made their mark on the market.

VARTA Innovation GmbH contributes its expertise in the fields of materials research or qualification for electrochemical energy storage systems as an active partner in cooperative research projects and also offers it in form of contract research.

We are also happy to support you in the development of an individual measurement method or an in-situ spectroelectrochemical method. If you are interested in our research services or have any questions, please contact us.

Geh?useteile sowie Elektroden der Zellen produziert VARTA nach eigenen Patenten. Als Technologief?hrer bearbeitet VARTA Rohmaterialien, bis sie zum perfekten Bestandteil der Produkte werden. VARTA hat eine hohe Fertigungstiefe und besitzt dadurch einen grossen Anteil an der Wertsch?pfung der Produkte. Das

erm?glicht, dass

The basis for the highly automated production is VARTA's own tool, machine and plant construction. Systems developed there with patented know-how guarantee highly precise and reliable production lines. State-of-the-art image processing and imaging systems ensure that the production lines operate with consistently high VARTA quality. The manufacture of innovative battery systems requires state-of-the-art production facilities and a high degree of automation in order to meet market requirements in terms of flexibility, short implementation times and high quality.

ISO 9001 Quality Management System
ISO 14001 Environmental Management System
ISO 50001 Energy Management System
ISO/TS 16949 Quality Management System
ISO 13485 Quality Management System for medical devices
ISO/IEC 80079-34:2011 (explosive Atmosph?ren) Quality Management System f?r einzelne Batterien und/oder Kunden

Quality responsibility Every employee is responsible for the high quality of VARTA products. In order to live up to the claim "Quality made in Germany", we are continuously working on improvements.

Product safety One of the most important quality features is the safety of VARTA products. In addition to the product safety during the manufacturing and use of the products, a safe transport and responsible disposal is also a high priority for VARTA.

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