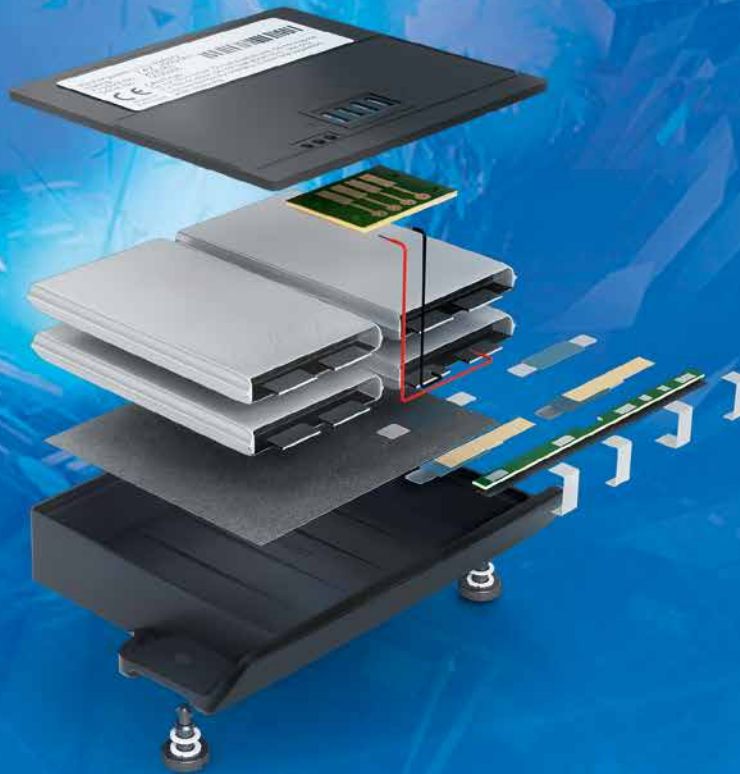


# BATTERY TECHNOLOGY



- › Batteries
- › Customized battery packs
- › Manufacturing and production  
in Germany and Asia
- › Implementation of all relevant certifications

# COMPLETE SOLUTIONS FOR YOUR BATTERY SYSTEM



Jauch has been producing battery power supplies for mobile applications since 1974. At the company's headquarters in Villingen-Schwenningen, Germany- experienced battery specialists design and develop configurations for the most diverse applications.



Standard products



Customized solutions

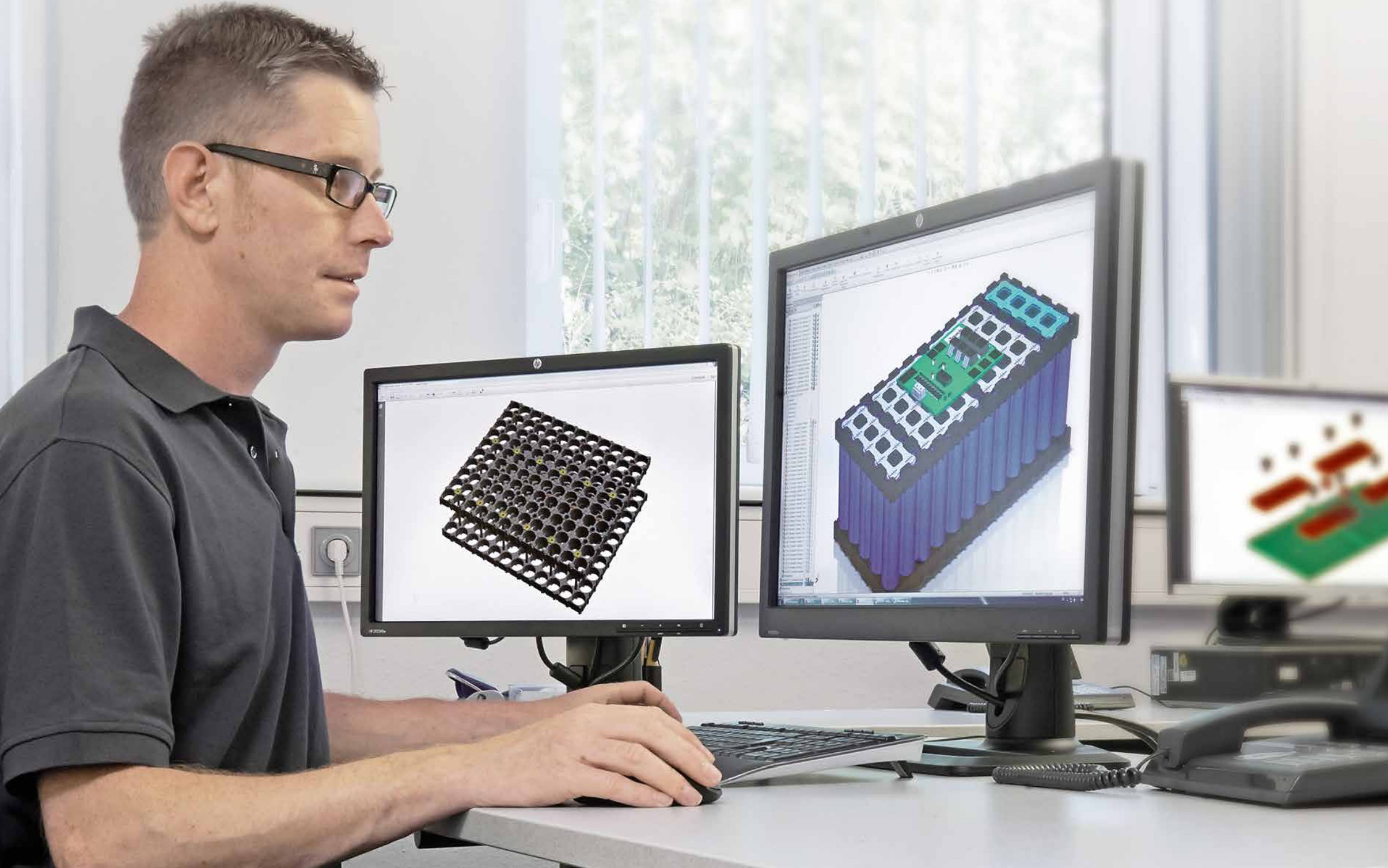


- › Consulting
- › Development
- › Production
- › Quality
- › Logistics

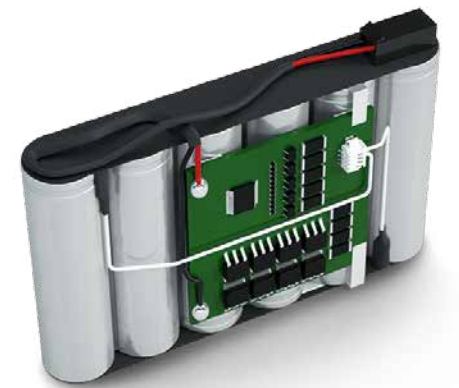
Jauch can offer complete battery solutions for your system according to your technical requirements – from standard batteries using single cells to multi-cell, customized packs with intelligent microprocessor control for the most sophisticated applications. We can take your unique design requests into consideration and include all relevant safety features.

If you are looking for customized battery packs, you should contact us. Our specialists, with their development and production know-how based on decades of experience, will be able to provide you with optimum solutions to allow your product to reach you punctually, safely and in accordance with the latest legislations.





## CUSTOMIZED BATTERY PACK DESIGN



**Jauch develops and manufactures the complete battery pack, including customized housing.**

We develop your individual battery solution: from the choice of the cell with the suitable active material and the safety electronics, to the assembly of the battery pack with optional housing. To ensure the battery operates safely in your application, we support this development with our modern test equipment.

In doing so, we meet the highest quality and safety standards. Based on our international project experience in a wide variety of industries, we leverage considerable expertise in terms of which tests and certification procedures must be complied with for the transport and distribution of your battery-powered products.







# YOUR SOURCE FOR LITHIUM POLYMER BATTERIES

As a leading manufacturer of battery solutions, Jauch provides lithium polymer products with particularly high quality and performance for customers around the world.



Lithium polymer batteries offer several advantages: Lithium polymer cells have higher energy density relative to their total weight than do lithium ion cells. Lithium polymer cells use aluminum-laminated films as a housing, resulting in a lighter and thinner battery. Lithium polymer batteries are highly flexible in cell size and shape. Many smart phones and GPS devices use

lithium polymer batteries. We manufacture customized battery packs for all branches of industry. Leveraging our knowledge and our wealth of experience means we can offer many different solutions in the field of lithium polymer batteries in a short time.

The space for the installation of the power supply is often limited and is already clear long before you initially contact the battery assembler. Our wide range of lithium polymer batteries allows you to select the battery that best suits your application, even at a later stage in the project.

- › Available ex warehouse
- › Cell selection
- › Sample production in Villingen-Schwenningen in the shortest time
- › Customized battery protection circuits
- › Perfect quality, performance and safety
- › Experience with battery chemistry
- › Worldwide technical support

We are happy to assist you from the outset in selecting the optimum battery solution. You can help us by letting us know important advance information regarding your request:

## PROJECT REQUIREMENTS

- › Application
- › Voltage (V)
- › Capacity (mAh)
- › Discharge current (mAh)
- › Dimensions LxWxH (mm)
- › Quantity





## DETAILED CERTIFICATION AND TRANSPORT EXPERTISE FOR YOUR APPLICATION

Lithium batteries are subject to many standards and regulations in terms of transport and for product approval.



## PROFESSIONAL POWER FROM JAUCH – COMPETENT, FLEXIBLE, ON TIME

If you want to equip your application safely and reliably with a battery system, you have come to the right place. Together with you, Jauch will elaborate the ideal solution with regards to cell selection, designs, electronics, safety and charging technology.

- › Project management
- › Development
- › Prototype construction
- › Series production
- › Certification
- › Logistics and shipping



We take into account special design requests as well as all relevant safety aspects. Jauch provides you with the best of expertise for development and production based on decades of experience to bring your solution onto the market safely, on time and within the law.



A certification of the battery is often required for approval of your application. We ensure that the battery reliably meets the industrial and approval requirements. All internationally required certifications can be performed. And of course, our lithium batteries are also tested for shipping according to the internationally accepted UN38.3 standard.



## SAFETY IN SERIES

Jauch is certified to DIN EN ISO 9001:2008. Our batteries and battery packs conform to the highest international production and quality standards and pass through a series of specific tests for which we use only the very highest quality test systems. We have access to production starting from cell development. This significantly contributes to our “Made in Germany” Jauch quality.



The Jauch production plant in Villingen-Schwenningen conforms to the very latest international standards. In modern, ESD-protected rooms, high-performance batteries are produced— for use in the automotive industry, pedelecs and e-bikes, mobile phones, cameras, gardening equipment, home appliances, and many others. From prototypes and one-offs to the production of small and medium series, you get quality “Made in Germany”. At production sites in Asia, we manufacture battery packs in medium to high volume.

To ensure our quality, we use only high-quality test systems. Based on its battery technology experience, Jauch has developed special test environments that can simulate even extreme operating or environmental conditions. In doing so, Jauch engineers rely on the wealth of experience in electronics that we have gained in the frequency control components division since 1954.

- › Modern test environment
- › ESD equipment
- › Long- and short-term cycling for determining performance of systems up to 50.1V (100A)
- › Thermal shock, vibration, drop tests...
- › Charging and discharging tests
- › Simulations of predefined test scenarios according to customer specifications



# CUSTOMIZED TRANSPORT AND LOGISTICS SOLUTIONS

Our staff are specially trained in the shipment of dangerous goods and are IATA-certified.



We know how to get batteries to their destination quickly and safely. Because we stress the highest quality and safety standards even in shipping, ensuring that our products reach you in time.

- › SAP/3 controlled paternoster warehouse
- › Our “known consignor” status guarantees fast and secure shipping
- › Transport safety through compliance with the internationally accepted UN38.3 standard
- › Support for our customers on adherence to legally mandatory transportation, storage and handling regulations



## PRIVATE LABEL FOR YOUR SUCCESS

Jauch assists you with products that you would like to offer in your name. We already supply many customers with custom packages and cells. What may we do for you?

### UNIQUE IN EUROPE

In Villingen-Schwenningen, Jauch maintains a highly professional system for the blister packaging of button cells. Here we can package your button cell as a private label in a fully automated manner, whether in a small batch series or in millions of units.

# RELIABLE AND SAFE: FREQUENCY PRODUCTS AND BATTERY SOLUTIONS FROM JAUCH



## ABOUT JAUCH

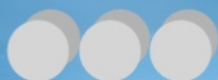
The Jauch Group is one of the leading specialists for quartz crystals, crystal oscillators, MEMS oscillators and battery technology. Established in 1954, we are a leading company in the frequency control products industry, and have recently added MEMS timing oscillators to our range. We are also a recognized expert for lithium ion and lithium polymer battery solutions.

With our in-depth technical consulting, certification expertise and advanced test environments, we are able to underline our claim to leadership.

Along with our subsidiaries in France, Great Britain, Switzerland and America, we are able to develop and provide pioneering technology solutions.







**B.C.E. S.r.l.** - Via Regina Pacis, 54/c - I 41049 Sassuolo (MO), Italy

Tel: (+39) 0536 811616 Fax: (+39) 0536 811500 E-mail: [bce@bce.it](mailto:bce@bce.it) Web: [www.bce.it](http://www.bce.it)

