

EMPOWERING **TRANSFORMATION**





SWISS QUALITY BÄCHLI AG

Bächli is a Swiss tech company that specialises in the development and production of electrotechnical components. The company's range of products comprises highly specialised transformers, chokes and winding products of all kinds that are used in differing industrial products. The company is based in Kriens near Lucerne and has a proud history of successfully partnering with international industrial companies that spans over 65 years.

Our main customer segments are rail technology, machine and drive technology, the defence industry, nuclear power plants and chemical facilities, renewable energy sector, as well as medical technology. Bächli's excellent market position is the result of the company's customer focus and expertise in developing individual solutions. Bächli is a partner who is consulted during the project planning phase. The Bächli specialists often become an integral part of their customer's teams. Its vast experience from numerous projects combined with the ability to address the specific requirements of an industry in detail allow Bächli to develop innovative and pinpoint optimised solutions.

The company employs around 30 personnel and relies 100% on Swiss quality. The close cooperation of its sales, development and production teams at a single location enables Bächli to complete customer projects with outstanding flexibility and efficiency. Bächli takes a long-term strategic approach, just like its industrial customers. The specialists from Bächli make their expertise available to their customers over the entire product life-cycle and ensure that Bächli makes a sustainable and decisive contribution to the success of its customers.



OUR SERVICES

Product development and engineering

Ready to install components are an important key element in the economic feasibility of complex industrial products. Renowned customers rely on the proven expertise offered by the specialists from Bächli. Bächli forms close corporations with its customers to develop innovative solutions with exceptional performance characteristics that make a significant and sustainable contribution to their success. By outsourcing project planning and development to Bächli, customers improve the reliability and efficiency of their processes, which in turn allows them to operate more efficiently in the market.

Project management

Product excellence, efficiency and cost management are crucial economic factors for success. Bächli steers all sub-processes securely towards the common goal by employing a sophisticated project management process. The additional value to the customer is in terms of cost control and quality assurance.

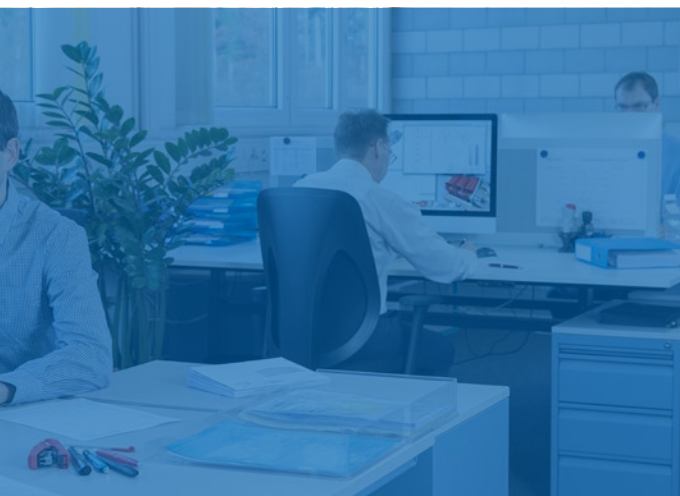
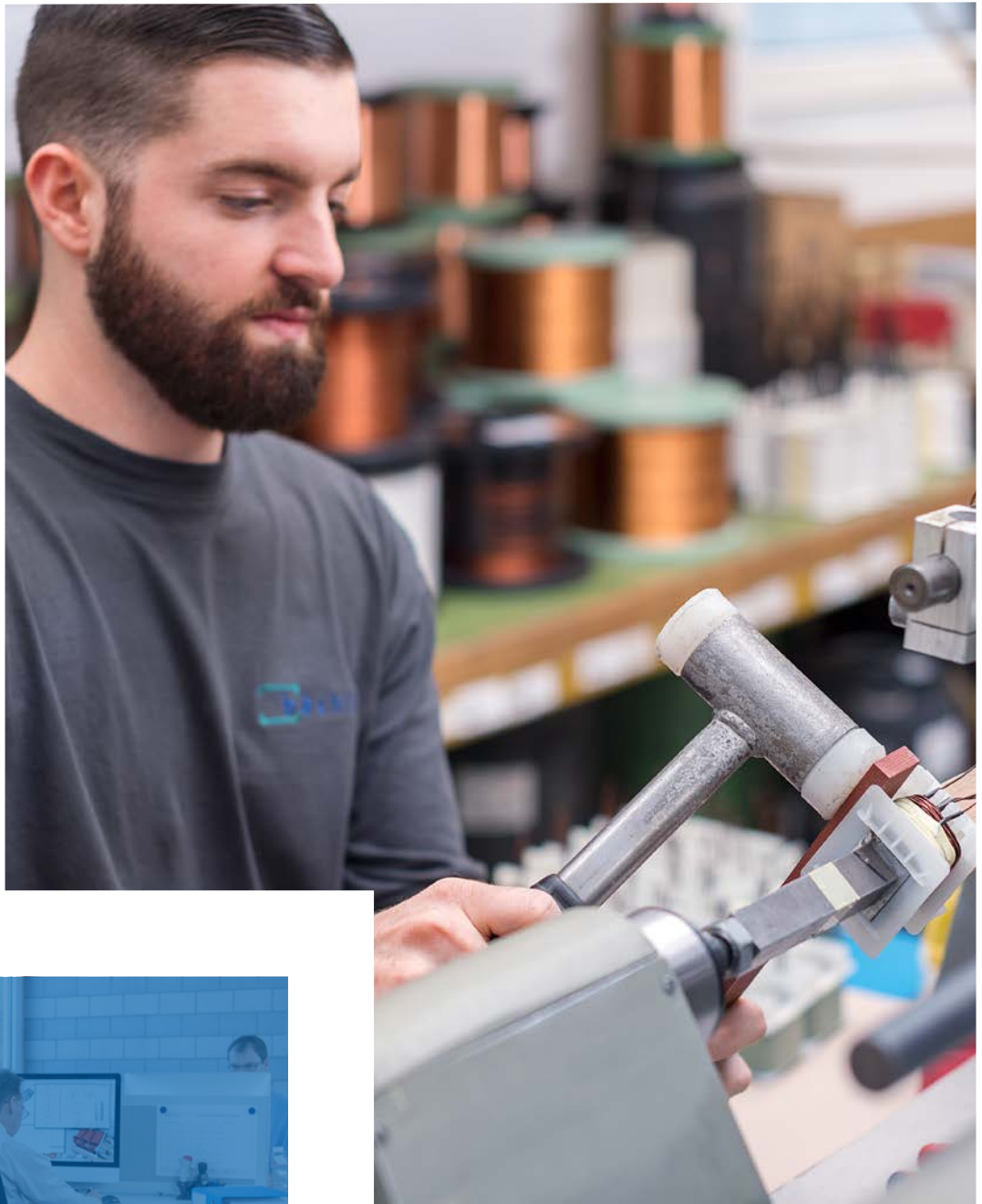
Simulation and testing

Modern simulation software for electrical, thermal and mechanical calculations provides crucial support in the development of products. It allows for the efficient simulation of different performance versions. The Bächli testing laboratory carries out type testing on all products. This ensures that the products can satisfy the stringent regulations in the different markets as well as the high performance requirements. We guarantee the quality of our products throughout their life-cycle by planning and conducting extensive shaking tests, strength analyses, climatic tests and electrical load tests in cooperation with professional institutes.

Single piece and series production

Bächli manufactures its products in its own factory, which allows it to offer highly flexible delivery arrangements. The focus is always on the benefit to the customer. The components are delivered to the customer in the quantity ordered, at the agreed time and in certified quality. The production of stock at the customer is reduced to an absolute minimum. Quantities and specifications can be flexibly adapted as required.







OUR SERVICES

Smart-E-Power®

The products manufactured by Bächli are expected to satisfy the highest requirements. Quality and cost efficiency are always the top priority. With its certified Smart-E-Power® solution, Bächli offers its customers additional potential for optimisation. Products that carry the Smart-E-Power® label incorporate selected technologies and top-quality materials that ensure the optimised performance of the products over the long term. Smart-E-Power® is an innovation developed by Bächli and offers our customers a unique value proposition.

Repairs and replicas

The services offered by Bächli include repairs to defective winding products, as well as the manufacturing of replicas. Whether for single-piece or series production, Bächli is capable of rapidly responding to customer enquiries in order to keep the downtime of a product to the minimum. The cause of a defect is established by carrying out a damage analysis, which allows the customer to choose between an identical repair or the production of a replica. Where a replica is required, Bächli will incorporate the latest developments and technology in the construction of the winding product, which allows for the optimisation of its efficiency, weight and output. Bächli takes care of the necessary documents and testing to reduce the work that the customer has to do.



AREAS OF INDUSTRY EXPERTISE

Rail technology

Modern rail-based transportation systems focus on safety, efficiency and a good environmental balance. Efficient electrotechnical components form the basis for the reliable control of energy. The solutions developed by Bächli draws on the company's long-standing experience. The wide range of tried and trusted products – combined with the innovative capacity to develop new solutions – make Bächli the leader in technology for chokes and transformers used in rail technology.

Machine and drive technology

The requirements of the machinery industry can be extremely demanding and multi-faceted. There are very few devices that do not rely on high-efficiency winding products. Bächli is the ideal business partner in this segment and can deliver customised assemblies right to the production lines. All conventional transformers offered by Bächli are approved for the markets in North America (UL and CSA approvals).

Renewable energies

Renewable energies play an ever-greater role in the generation and provision of energy for the consumer market. Wind power and solar technology will shape the landscape and infrastructure in the future, including in our regions. These technologies cannot be developed without transforming the energy and adapting it to the public grid. The solutions offered by Bächli are a significant driver behind the development of these technologies.









AREAS OF INDUSTRY EXPERTISE

Nuclear power plants and chemical facilities

Safety is the absolute top priority in nuclear power plants and chemical facilities. All components must comply with the most stringent requirements prescribed by standards and regulations. Thanks to its long-standing experience and detailed quality standards in its development and production, Bächli has been a reliable partner for this industry for many years.

Medical technology

The field of medical technology is an industry that is experiencing unprecedented development. The devices are becoming ever more specialised and powerful. This results in a high demand for the latest electrotechnical products that make these technological miracles possible in the first place. These products have to satisfy the most demanding requirements of miniaturisation and performance capabilities. Bächli possesses the expertise, experience and creativity it takes to provide the crucial impetus.

Research and development

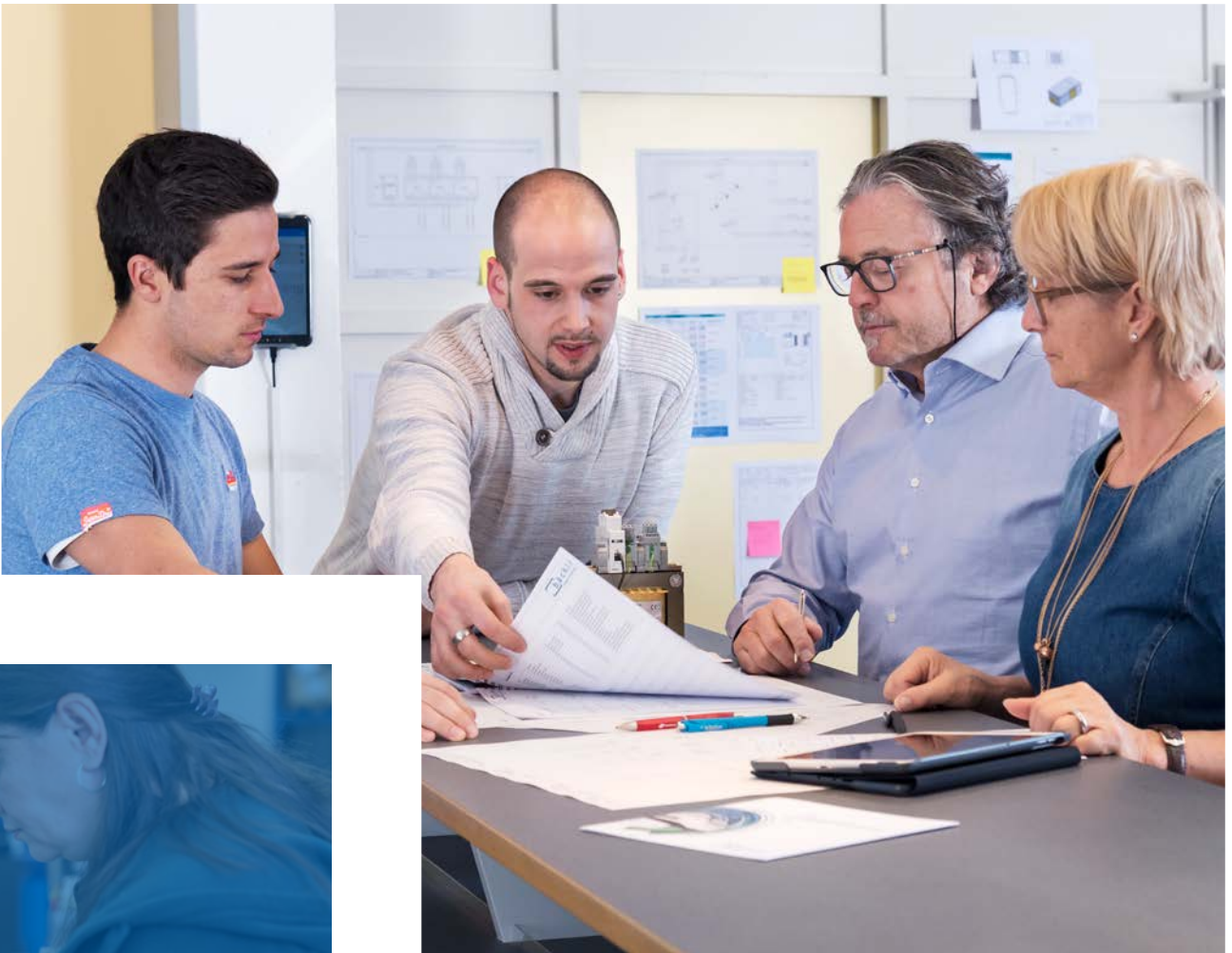
Bächli is a reliable partner for private and public international research and development centres when it comes to electrotechnical components and systems. The engineers from Bächli are frequently consulted during the planning and building of R&D facilities. The partnership with this highly demanding customer segment underlines Bächli's capability and readiness to develop special-purpose solutions and to intensely engage with innovation and new technologies. Last but not least, this level of quality also flows back into Bächli's own products and in turn offers valuable benefits to customers from other segments.

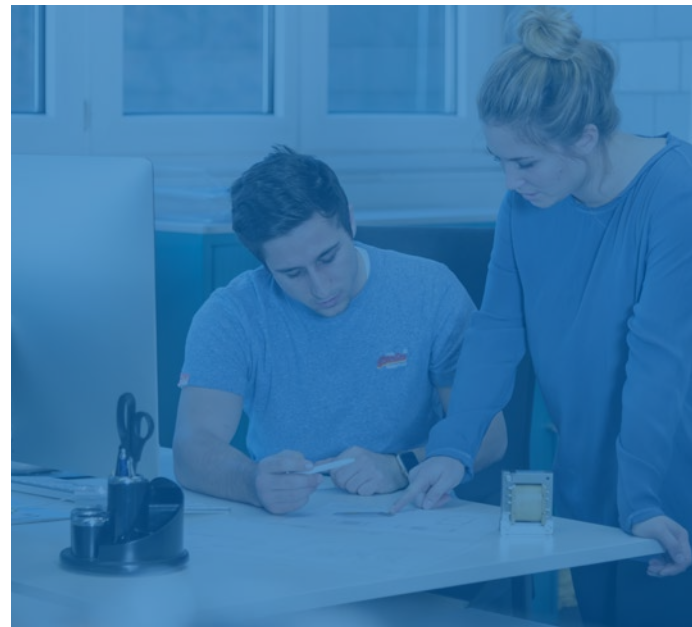
CUSTOMISED PRODUCTS

Single-phase and three-phase transformers

Our single-phase and three-phase transformers supply electrical consumers by magnetically transforming a grid voltage to the desired output voltage. In addition to the conventional standard products for electrical engineering and power supply (available from stock), Bächli develops and delivers the entire range of transformer versions from 1 VA to 500 kVA, or 10 VA to 1000 kVA respectively. In addition to low-price products, the portfolio predominantly focuses on customer-specific and energy-efficient products. The highest efficiency Smart-E-Power® model comes in modern compact sizes and meets the highest expectations. All products are CE conform. Transformers from 1 kVA and above comply with the EU Ecodesign Directive 2009/125/EG.







CUSTOMISED PRODUCTS

Chokes

Chokes are inductive resistors with frequency-specific impedance that are used for current limitation or energy storage. Bächli delivers single-phase and three-phase models for all switching-relevant requirements. In addition to the conventional grid chokes, Bächli manufactures all types of filter chokes, also in combination with capacitors and resistors. Our focus is on filters tailored-made to suit customer-specific and energy-efficient requirements. All our products are CE conform.

Variable toroidal transformer (Variac)

We offer single-phase and three-phase variable toroidal transformers, also known as "Variacs". Control currents can be up to 200 A per winding. The regulators are fitted with carbon contact rollers and can be equipped with a motor drive and electronic control unit in addition to a rotary knob. This allows you to use the regulators as follower control (booster), voltage stabiliser, grid stabiliser or to set up complete testing systems with control circuits for voltage or electricity. This is a perfect solution for controllable free-run DC power supply systems.



CUSTOMISED PRODUCTS

Switching systems

We use our winding products as the foundation to develop and build complex system solutions, such as switchgear cabinets, testing systems, frequency converters, UPS systems and DC power supply systems.

Casing and accessories

Many applications require electrical and electronic devices to work reliably under arduous environmental conditions over many years. It is also necessary to protect humans and the environment against electrical shock caused by touching or electric arcs. We also offer the matching casings and accessories for our winding products and manufacture them in the materials and protection classes of your choice. The most important standard casings have UL/CSA approval.





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