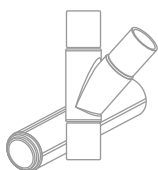




GLOBAL^o SOLUTIONS

- Innovative
- Service-Focussed
- Future-Oriented



- Bänninger Group of Companies
- Worldwide
- Made in Germany





SUCCESS FROM EXPERIENCE

MADE IN GERMANY – FOUNDED MORE THAN 30 YEARS AGO

The Bänninger Group is a successful family business in its third generation. Our long-term success is the result of a simple formula: we develop our pipes and moulded parts as a problem-solver from the perspective of our customers.

It is precisely this standpoint - which we pass on from generation to generation - that is the source of our high quality standard. We are also certified in accordance with DIN EN ISO 9001 and DIN EN ISO 50001 for this reason.

Hence, this corporate philosophy is deeply rooted at Bänninger GmbH. Bänninger was founded 1909. In 1987 the Stamm and Ertl families acquired the plastics division of the company and changed the name to Bänninger Kunststoff-Produkte GmbH.

The new company quickly started to grow and has continued to grow to this day. Our growth is based on innovation, know-how, an extraordinary quality standard and sound business skills. Ecological thinking and conduct are part of our daily business. This is also visible in our state-of-the-art energy management.

As a global system provider, we offer our solutions worldwide.



Handwritten signature of Hendrik Ertl in black ink.

Hendrik Ertl
CEO/Managing Partner

Handwritten signature of Christoph Stamm in black ink.

Christoph Stamm
CEO/Managing Partner



SUCCESS HAS MANY GOOD NAMES ...



PP-RCT. ROBUST AND GOOD PROCESSABILITY

The revolutionary result of our many years of research for even more reliable and efficient polypropylene pipeline systems and moulded parts for nearly all liquid media.

PRODUCT PROPERTIES:

- Reduces wall thicknesses for given pressure loads
- Due to reduced wall thicknesses, up to 17 % higher flow rate
- Reduction of the axial length expansion with fibre composite pipes.

APPLICATION FIELDS:

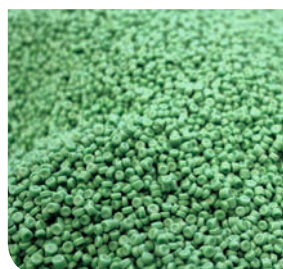
- Industrial applications, e.g. aggressive media, electrolysis
- Apparatus and plant engineering
- Water processing
- Compressed air lines
- Shipbuilding
- Cooling water and heating control centres



INNOVATION IS IN OUR GENES

Bänninger plastic products are the result of our own innovation and research. This is a longstanding tradition. Our products are created from the motivation to develop customised, forward-looking solutions.

Production takes place for the global markets at the company's own locations, starting with the production of its own master moulds and dies.



■ BEING OPEN MINDED – MAKING GOOD THINGS BETTER

“There is nothing that cannot be improved.”

This sentence describes Bänninger's attitude about quality.

To ensure that our pipes and moulded parts continue to meet the requirements of the market, only the best materials and production processes are considered. They are a prelude to progress.

■ BEING AHEAD OF THE MARKET

This approach has helped Bänninger to succeed in being one of the industry's trailblazers. The best example of this is the processing of PP-RCT, in which we have more than ten years of experience.

In injection moulding, dimensions of 20 to 500 millimetres are feasible. Additionally, PP-RCT provides increased resistance to pressure surges.



SUCCESS HAS MANY GOOD NAMES ...



PP-INDUSTRIAL. VERSATILE AND LONG-LASTING

Over a period of decades, polypropylenes have proven their excellent properties. Bänninger offers a wide-ranging programme which includes specialised solutions for many industrial applications.



PRODUCT PROPERTIES:

- High resistance to chemicals
- High resistance to corrosion
- Excellent workmanship
- Available in fibre mid-layer to reduce axial length expansion



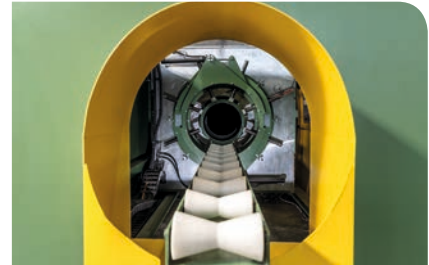
APPLICATION FIELDS:

- Industrial applications, e.g. aggressive media, electrolysis
- Apparatus and plant engineering
- Water processing
- Compressed air lines
- Shipbuilding
- Cooling water control centres

TRUST IN KNOWLEDGE AND EXPERIENCE

Internationally, we are regarded as an absolutely reliable manufacturer in the high-pressure range and one whose products guarantee a high safety standard.

The reasons for this lie in our knowledge and experience, which have been accumulated over the course of decades as well as in the high level of motivation of our employees.



■ IN A NUTSHELL: THE ENGINEERING

The development of products needs skills, primarily the capability to create new innovations in know-how and technical equipment. This includes the skills for performing our own engineering and design, for handling materials and for consulting .



■ ENGINEERING IS NOT AN END IN ITSELF

At Bänninger, the development of new products is not an end in itself; it is not about what is possible, it is about meeting the requirements of the customers and the challenges they face.

The intensive contact and exchange with the customers worldwide ensure products that the market needs - that is the basis for Bänninger's long-term success.



SUCCESS HAS MANY GOOD NAMES ...



PE100. IDEAL FOR GASES AND LIQUIDS

Polyethylene injection-moulded parts are characterised by excellent physical and mechanical properties.

PRODUCT PROPERTIES:

- Non-corrosive. UV-resistant and weatherproof
- Chemical and temperature-resistant
- Outstanding pressure shock resistance
- High impact strength, particularly at low temperatures

APPLICATION FIELDS:

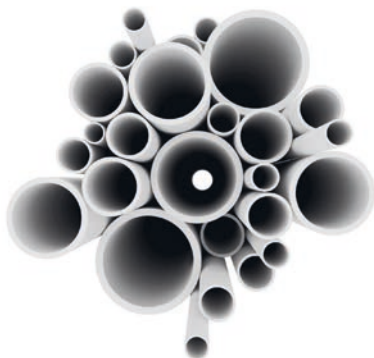
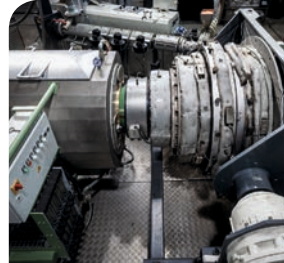
- Gas and water supply and disposal
- Water processing
- Cooling
- Chemical process industry
- Fire protection



TAKING ADVANTAGE OF THE COMPETITIVE EDGE

The leading edge that Bänninger has gained in the past decades is based on a corporate philosophy which focuses on three attributes: innovation, quality and service.

As a result, the customers will be able to work successfully worldwide, today and tomorrow.



■ CONVINCING PRACTICAL

The orientation towards the customer and their daily requirements - in combination with reliability and solidity - has given Bänninger Kunststoffprodukte a name which customers, suppliers and partners trust.

These customers include numerous small and medium-sized enterprises and qualified specialist retailers, as well as reputable and globally active German and European corporations.

■ FOR THE CUSTOMER, WITH THE CUSTOMER

The most important interface with customers are our highly-qualified employees, who continuously receive further training.

Their high level of innovation and knowledge of the more than 5,000 different products make the Bänninger Group so special.



BÄNNINGER QUALITY

is a sum of many success factors

AT BÄNNINGER NOTHING IS LEFT TO CHANCE

For instance, all processes are certified in accordance with DIN EN ISO 9001:2015 and DIN EN ISO 50001. The high quality standard allows a ten-year warranty on the products.

CONSULTATION

Quality starts with consultation by our competent experts beyond national borders.

We see ourselves as service providers for planners and users. With OEM production and in-house tool making, we flexibly cater to customer requirements.

DEVELOPMENT

Innovative products that are tailored to the application are mandatory in the pressure range. Planners and users all over the world appreciate the know-how of our development team, which leads to more safety, reliability and sustainability.

We are technology leaders because our innovations have set new standards in plastic injection moulding.

MATERIALS

Raw materials and formulas can create excellent work materials and consequently also the best products. Our strong materials expertise helps us to understand the advantages of plastic over metal, for example.

In terms of corrosion resistance, we have been one of the pioneers in PP-RCT processing for many years. In our laboratory experts test every single batch. We test and develop with the goal of constantly optimising the material properties of our products.



FIRST-CLASS PRODUCTS AND FIRST-CLASS RAW MATERIALS

First-class pipes and moulded parts need first-class initial materials. Accordingly, only new and mint-condition raw materials are purchased at Bänninger Kunststoff-Produkte. This also leads to the high acceptance of Bänninger products.



SERVICE

Our employees know that they sometimes have to go the extra mile to satisfy customers. That is why we always try to not only fulfil the expectations of our customers, but also to exceed them. This applies, for example, to personal interaction: many of our employees are multilingual.

LOGISTICS

In addition to quality, time is often paramount for our customers. That is why our delivery service is fast, customised and flexible. Our state-of-the-art high-rack warehouse with 7,500 square metres of floor space make the fast supply of our entire product range possible through our logistics partners all over the world. And: the best possible packaging guarantees hygienic arrival at the operation site!

QUALITY

As a continual process, our quality programme encompasses all areas of the company. At the same time it is firmly anchored within the thinking and actions of our employees.

Extensive quality checks through the entire production process, in conjunction with parallel quality-assurance measures by independent testing laboratories, ensure that the high quality standards set by the company are constantly adhered to. It pays big dividends that our employees stay with us for a long time and their know-how and experience in product quality matters flow into the products.

PRODUCTION

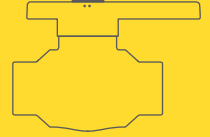
Our state-of-the-art and integrated controlled production systems ensure reliable and efficient processes. We produce small parts as well as elements with injection weights of up to 150 kilos and a closing force of up to 3,000 tons. Our extrusion systems produce pipes with diameters of up to 500 millimetres. Our customers benefit from this impressive range of products.



PRODUCT DIVERSITY

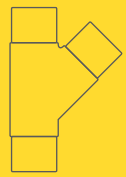
PVC-U

- Fittings for chemical and industrial applications d 8 - 315 mm
- Comprehensive industrial product range for OEMs, system providers and producers d 8 - 315 mm parts
- High rigidity with low thermal length expansion
- Good chemical resistance to acids, alkalis, alcohol, oil and petrol
- High-grade industry quality - Made in Germany - with respect to tolerances and durability



PE100

- Fittings for gas, water and industrial applications d 25 - 1000 mm
- Excellent UV-resistance and weather-resistance
- Very wide range of injection-moulded parts d 25 – 630 mm
- Compact geometries
- Processing in heating element butt welding/socket welding, as well as flange joints
- Many specialised moulded parts, as well as drawn elbows, E-sockets to D 1000 mm
- New PE fibre-composite pipe for demanding industrial applications



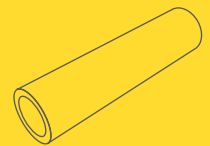
PP-R

- Pipes and fittings for industrial applications, cold and hot water from d 20 - 63 mm
- Cost-efficient with high safety reserves



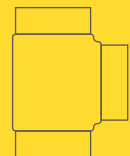
PP-RCT

- Pipes and fittings for industrial applications, cold and hot water from d 20 - 500 mm
- More compressive strength at a higher temperatures
- Much lower temperature-based length expansion with fibre-composite pipes
- Improved reliability and safety combined with a longer service life significantly reduces inspection and investment costs
- Higher flow rate, with the same or higher-pressure force due to lower wall thickness compared to PP-R or PP-H
- Threaded parts with gunner inserts



PP-Industrial

- Industrial system butt and socket welding d 20 - 315 mm
- High degree of toughness and rigidity
- High stress cracking resistance to many acids, alkali and solvents
- Excellent weldability, colour-neutral with known extruded panels used in equipment manufacturing
- Temperature range 0 °C – 95 °C



Service

- Extensive continuing education and training for our employees
- Fast and flexible logistics through additional warehouse-based partners
- First-class and tested supplier selection



SIX CONVINCING ARGUMENTS



- 1 EXPERIENCE AND KNOW-HOW ...**
... distinguish Bänninger employees.
- 2 CONSULTATION ...**
... creates the foundation for our customers' successful products.
- 3 INNOVATIONS ...**
... make it possible to realise the projects of tomorrow today.
- 4 STATE-OF-THE-ART TECHNOLOGY ...**
... ensures the necessary extra efficiency.
- 5 QUALITY ...**
... in its highest form guarantees reassuring reliability.
- 6 STRONG SERVICE ...**
... starts with us by thinking like our customers.



SUCCESS HAS MANY GOOD NAMES ...



PVC-U. ROBUST AND FLAME RETARDANT

PVC-U has a high level of heat deflection and chemical resistance and is particularly resilient to chlorine.



PRODUCT PROPERTIES:

- Flame retardancy
- Weather resistant
- Good resistance to chemicals



APPLICATION FIELDS:

- Water processing
- Swimming-pool technology
- Chemical processing industry
- Cooling

HIGHLY QUALIFIED STAFF

STRONG SERVICE

The foundation for first-class service is thinking like our customers and looking ahead. Bänninger's employees, therefore, support you in all phases of the project, from the project preparation and offer creation to engineering services and processing, right up to shipping. This creates a reliable and comprehensive range of services.



■ RELIABILITY AS A FOUNDATION

At Bänninger Kunststoff-Produkte GmbH, reliability also encompasses fast and flexible logistics, in addition to quality.

This reliability is enjoyed by our customers through tried-and-tested logistics partners worldwide. In addition to this, we provide a high level of availability thanks to our own large warehouse capacity.



■ OUR EMPLOYEES ARE THE KEY

Bänninger employs some 250 specialists from various commercial and technical backgrounds who work together in multidisciplinary teams. With their commitment and flexibility, they make a crucial contribution to the satisfaction of our customers.



SUCCESS HAS MANY GOOD NAMES ...



PP-R. HIGH RESISTANCE TO CHEMICALS

The high resistance to chemicals and good long-term properties compared to many other materials, even at high temperatures, are characteristic for PP-R.

PRODUCT PROPERTIES:

- Good resistance to chemicals
- Corrosion resistance
- Excellent processing capability

APPLICATION FIELDS:

- Building technology
- Apparatus and machine engineering
- Processing industry



BÄNNINGER – WORLDWIDE

A RELIABLE PARTNER

Customer satisfaction and loyalty are our yardstick.

We have a high rate of customer retention. There are good reasons for this. A high degree of flexibility is one of them. So is the combination of innovative technology and employees' experience as well as customised consultation. In short: our customer service is the focus of our business activities and ensures both their success and ours.



VALUES AS A BENCHMARK

Our relationships with business partners are open and honest, characterized by mutual respect and trust.

In our daily business, ethical values and generally accepted social rules serve as guidelines. Our motto in dealing with our employees is: „Role model, responsibility and trust are the pillars of leadership in the company. This is what we practice.”



SUSTAINABILITY AND SUSTAINABLE COOPERATION

Sustainability and ecological responsibility play a key role for all entrepreneurial decisions and in the entire value chain at Bänninger. Social commitment is part of the corporate culture.

Among other things, we supported initiatives for the promotion opportunities for the physically and mentally challenged, and we offer apprenticeships for young people.

Bänninger is a recognized training company and Partner of the „Technische Hochschule Mittelhessen“.

BÄNNINGER ADVANTAGES AN OVERVIEW:

- Know-how, experience and innovative products
- Production „Made in Germany“
- Worldwide availability with excellent service
- High degree of flexibility and customised consultation
- Certified processes





■ RELIABLE PARTNER WORLDWIDE ...



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