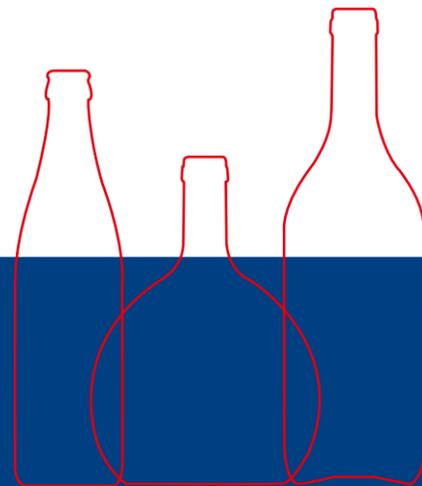




Wiegand-Glas

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Sustainable



WELCOME TO WIEGAND-GLAS. Welcome to a glass production centre with tradition. The direct access to wood, limestone and sand deposits, the most important raw materials in glass production, used to be the basis for our two glass plants in Bavaria and Thuringia. The Wiegand family, however, has been related to the material glass for more than 400 years. But glass is not only an historic packaging material. Glass is one of the few materials which can be fully recycled thus contributing considerably to the environmental protection. Glass is almost only made of natural raw materials which appear to a large part in Germany. Hence Wiegand-Glas mainly produces in the home country and relies on quality made in Germany.

As a medium-sized and family-owned company we do not only look back on a long and successful tradition but primarily into the future. The direct access to the indispensable raw material wood has been our commitment to environmental protection ever since. Since 1970, we have reduced the energy consumption for the production of one bottle by more than 70 %.

The early use of cullet, our permanent efforts to raise the cullet level in production as well as the reduction of energy consumption make Wiegand-Glas the leading company in the German container glass industry. Today, we cover around 80 % of the raw material needs with recycled glass.

Among the company's key goals is to act ecologically and sustainably. Therefore, Wiegand-Glas is permanently engaged to reduce container weights further, to identify more energy saving solutions in production while striving to minimize emissions below current advances. This way, Wiegand-Glas combines tradition and future.



Glass production since 1593
Glass symbol: "The never ending cross of making glass"

Meaningful

AN ACTIVE INTEREST IN THE INTRINISC VALUE OF GLASS. Glass is a sign of our individuality. It combines our desire for refined relaxation among friends with the need for elegance, quality and sensory enjoyment. Glass is something that we consciously enjoy. The transparency of the material is seen as a symbol of trust in the product. Its stability and beauty give drinks and food the value they deserve. Glass is an inseparable part of our culture.



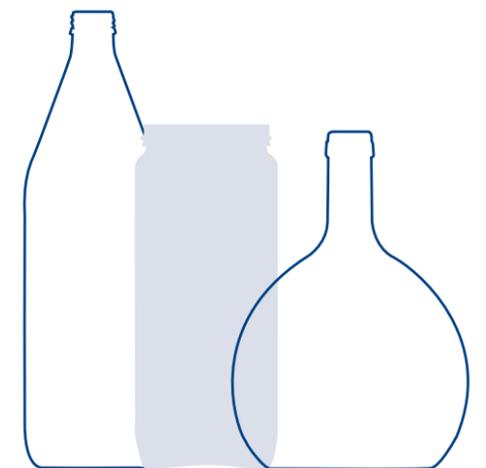


The more attractive a bottle, the more likely it will be used as a home accessory. More than ever before, glass has an intrinsic value.

Diverse



A VARIETY OF SHAPES TO SATISFY ALL TASTES. When the outer appearance corresponds with the character of the contents, the result is the image of a unique product. The individual symbiosis of design and content helps us to find our way through the maze of products. The shape and the colour of an individually designed bottle reveal the taste and spirit of its contents.

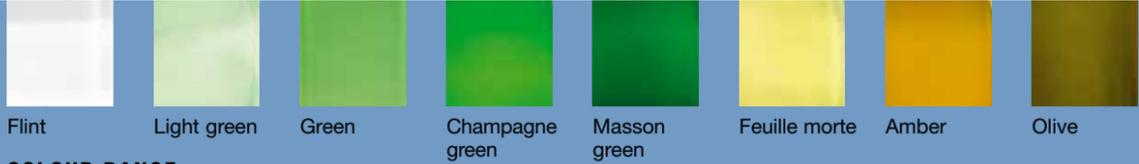


Individual

EXPERIENCE BORN FROM TRADITION. Our wide range of products includes all types of standard glass packaging as well as individual returnable and non-returnable bottles/jars. Every product can find the packaging it deserves either by combining traditional shapes, colours and finishes or by creating a completely new product design.

Beer

Food



COLOUR RANGE

Standard bottles, whether for returnable or non-returnable use, can be easily incorporated in today's distribution channels, making them particularly suitable for any kind of drinks.

Individual shapes attract the attention of the customer. Together with your product designers Wiegand-Glas develops and produces glass containers for all your needs ranging from volumes of 100 ml up to 2 litres.

We offer our products in a wide range of colours. All glass containers can be recycled completely. Our team is happy to advise you from the very first idea to delivery and beyond.



Wine



Champagne



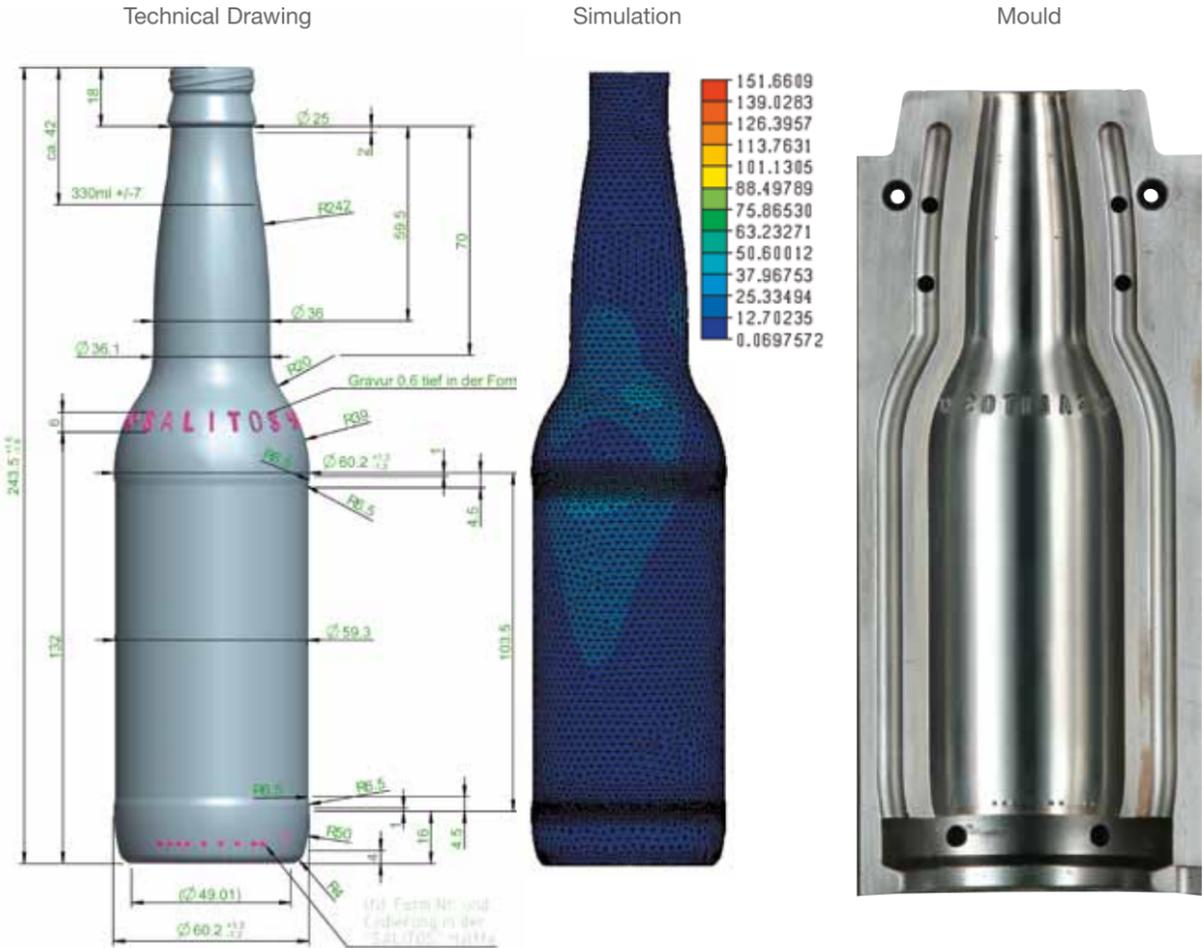
Spirit / Liqueur



Water / Softdrink

Well designed

EVERY PRODUCT WANTS TO BE PACKED. To ensure that your drink stays in shape, we offer you a range of packaging concepts encompassing everything from the design of the individual bottle, to production and delivery to the filling. Our quality management is certified according to DIN EN ISO 14001, guaranteeing the highest level of process stability. Moreover, we monitor quality even before production. Our computer simulation software detects critical areas in the container thus avoiding possible defects prior to the first bottle being produced.



SALITOS IS DIFFERENT ...

A bottle with its own opener – this was the challenge in designing the bottle for Salitos Tequila Flavoured Beer. The secret is in the bottom of the bottle.

... IT IS FUN ...

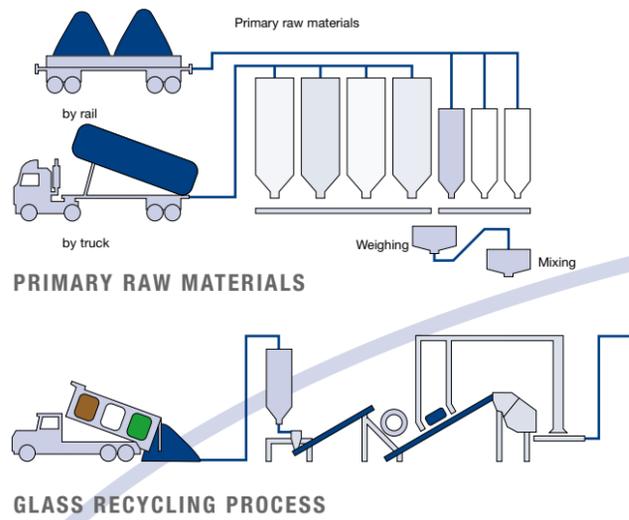
In cooperation with external partners, Wiegand-Glas developed the entire process for Salitos, all the way to the decoration of the bottle.

... A BOTTLE TURNED INTO A TREND.

The triumph of the legendary bottle is unwaning. Salitos is very popular especially at parties and events. Salitos is the brand of our time. But not only because of its content.



1. DELIVERY OF MATERIAL AND RECYCLING



1. DELIVERY OF MATERIALS

Primary raw materials: Sand, soda ash, dolomite and limestone as well as refining and colouring agents are delivered by train or truck directly to the batch house.

Recycling glass. Three recycling plants daily clean and remove waste material from more than 1,200 t of glass. On average, a new bottle is made out of 80 % recycled glass.

2. GLASS MELTING

The melting process is conducted at a temperature of 1,600°C in six large melting furnaces located at the Steinbach am Wald and Großbreitenbach plants. The molten glass is formed into new glass containers on 14 production lines. The residual energy is used to preheat combustion air, raw material and cullet.

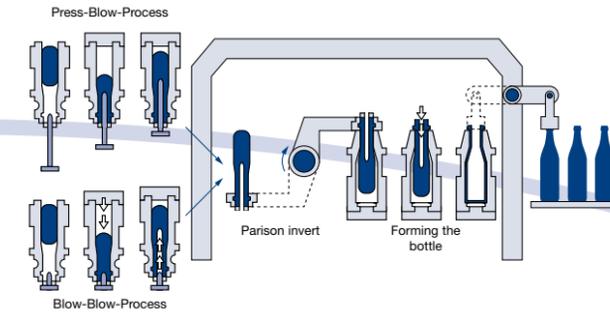
3. FORMING

In the press-blow process, the glass gob is pressed into the blank mould and formed to the parison. In the blow-blow process, this is done using compressed air. The parison is then placed into the blow mould and blown into its final shape.

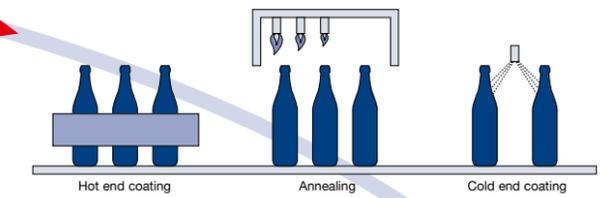
4. COATING AND ANNEALING

The hot end coating conditions the external glass surface. Following the cooling and the annealing of the bottle in the Lehr, the cold-end coating is applied. This guarantees perfect surface protection.

3. FORMING



4. COATING AND ANNEALING



5. QUALITY CONTROL

A sophisticated quality management system ensures that at any given moment, only high-quality glass containers are packed. One hundred percent of the production is automatically inspected. In addition, samples are drawn randomly to inspect weight, internal pressure resistance, dimensions and other specifications.

6. PACKING

After quality control, the bottles are automatically packed in layers on pallets. The pallets are covered with plastic shrouds and shrunk for protection and stability.

7. STORAGE AND SHIPMENT

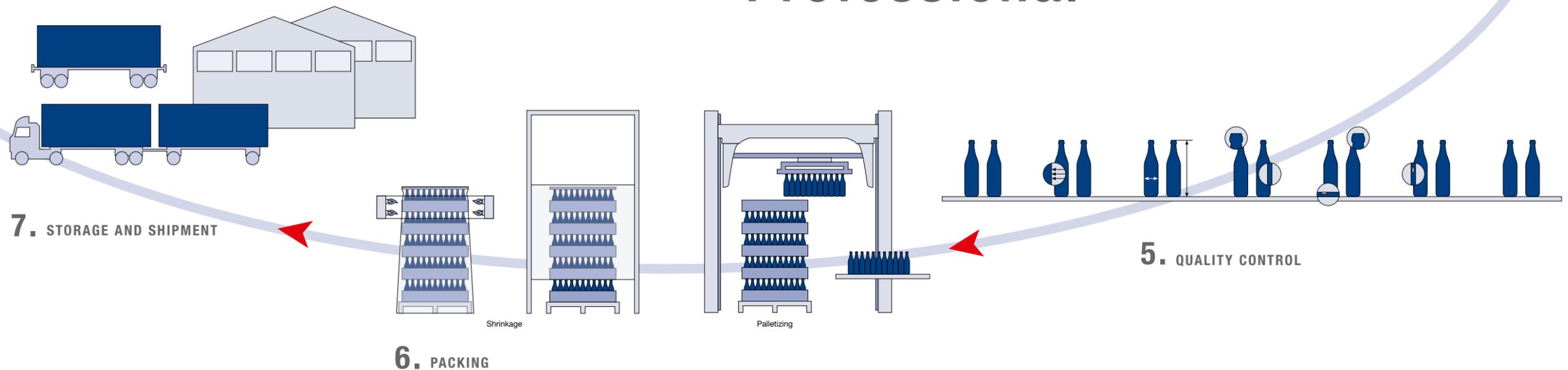
Our own transport companies work closely together with a number of external shipping agents ensuring that our customers always have the right number of bottles available. We store the glass containers for our customers and take over the entire logistics to always deliver just in time.

8. BOTTLING

RETAILERS
CONSUMERS
COLLECTION
RECYCLING

After bottling, distribution and consumption of the products, the product life cycle starts from the beginning – again and again!

8. BOTTLING RETAILERS CONSUMERS COLLECTION RECYCLING



Professional

Clean

USING HIGH TECH TO REDUCE CO₂-EMISSIONS. The story of our LoNO_x-Melter® began in the mid 1980s when the glass industry was forced by the government to reduce emissions from the melting furnaces. Our furnaces are state of the art and guarantee maximum glass quality at minimum NO_x- and CO₂-emissions.

The computer controls the entire process automatically from batch preparation and glass melting to waste gas cleaning.

We also use the latest technology for the process control of forming and quality assurance. Production defects are detected and removed immediately thus preventing defect bottles.

Wiegand-Glas has realized all its investments in state-of-the-art technology with respect to environmental protection.



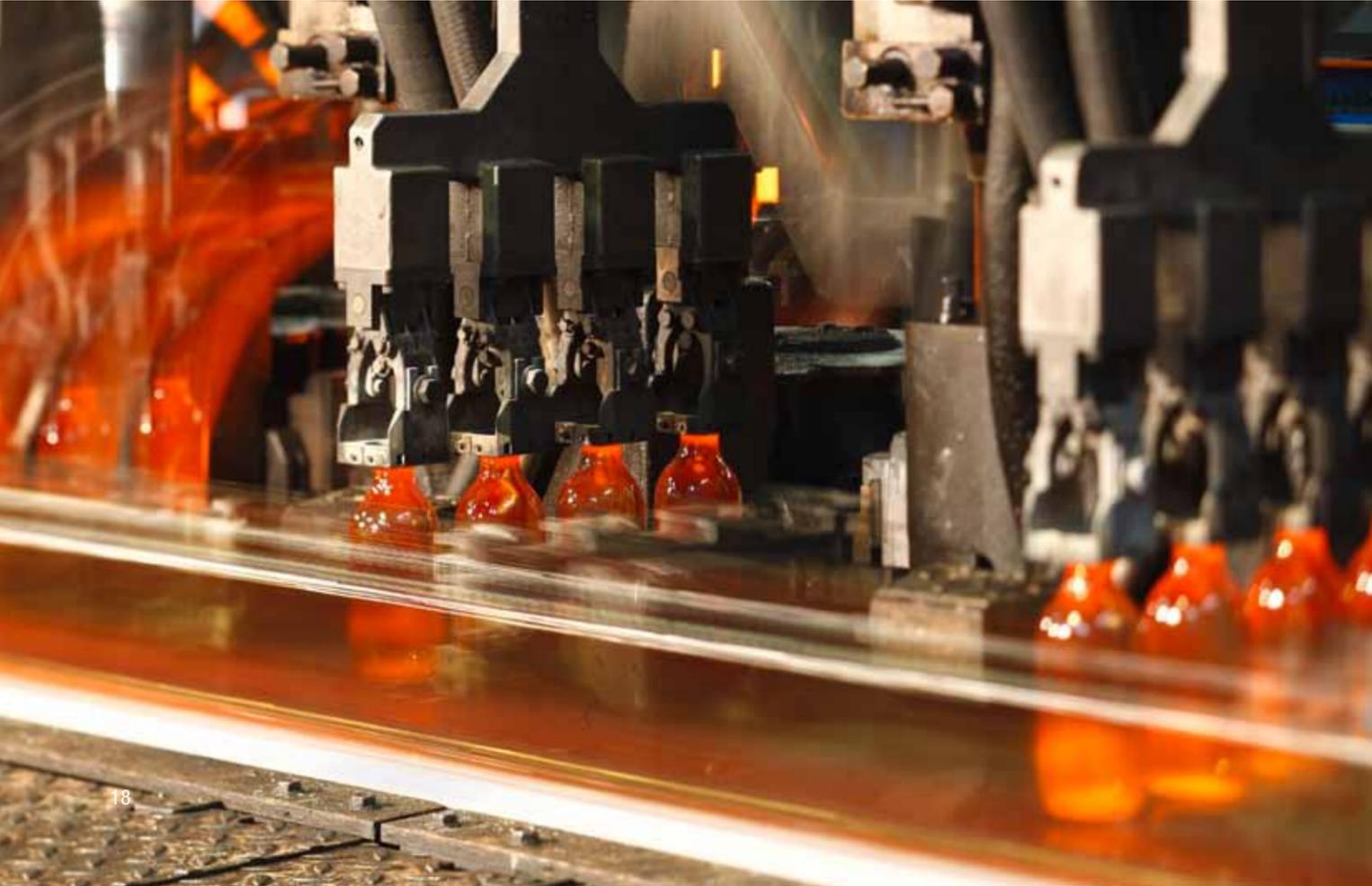
Efficient

BE AHEAD WITH INNOVATION. NIS is the name of a forming machine developed for the production of glass containers. The completely automatic machine is driven by servomotors and replaces the standard pneumatic machine concept. Moreover, it sets new trends regarding accessibility, mould exchanges and noise emissions.



The movements of the mechanisms can be precisely set, thus improving process stability in comparison with standard machines.

The profile of the movements can be optimised via a control panel, enabling a reduction of cycle times.



Decorated

A LOT OF ROOM TO EXPRESS CREATIVITY. Our in-house coating facility ensures the customer's individual requirements to be met and gives our bottles more character and soul. We offer tailor-made solutions to our customers so that they can stand out clearly from their competitors and make themselves individual and unique.

The possibilities of container glass decoration are diverse. No matter if transparent, opaque, glossy or frosted or in a special colour – the application technology of Wiegand-Glas makes it all possible.

Our aim is to offer individual and innovative solutions to our customers enabling them to differ clearly from competitors.

The coating is done electrostatically with water-based varnish while the fully automatic bottle handling allows a non-stop production. Our system works ecologically and free of solvents thus contributing significantly to our environment.





Careful

ENVIRONMENTAL PROTECTION – WE TAKE RESPONSIBILITY. The location of our plants in the Franconia and the Thuringia Forest commits us to be responsible for our environment. We give the same attention to clean air, environment and pure water as to the quality of our products. Again, our target is zero defects. Again, we subject ourselves to ongoing monitoring by public authorities as well as by our own specialists.



ISO certificate



HACCP certificate



Bavarian
Environmental Award



Modern waste gas purification plants clean the combustion air before it is released into the atmosphere. A large proportion of the heat dissipated by our plants is fed back into the production process.

All our products can be totally recycled into new bottles an infinite number of times.

The plants run their own water purification plants and operate a closed cooling water system. This results in minimal consumption and pollution of our fresh water resources.

„We, at Wiegand-Glas, do not only discuss but sort things out. Flat hierarchies and quick decisions throughout the company are the basis for a successful realization of projects and sustainable creation of value. We distinguish ourselves being unbureaucratic and quick – and this is our motivation.“

Matthias Müller, chief financial officer

„My job at Wiegand-Glas is varied and interesting. I enjoy working in such an innovative company which focuses on the training of its employees thus creating the best basis of a promising career. The open-mindedness to employ and train women in male professions is my motivation to contribute together with my colleagues to the company's success.“

Nancy Sturm, trainee process engineer glass



Together

AS MUCH SERVICE AS YOU WISH. All our personnel, with their skills and enthusiasm, ensure that we, at Wiegand-Glas, satisfy our customers' wishes quickly and precisely. The friendly and respectful atmosphere in our company is reflected in our relationship with our business partners.



„As a designer it is my job to make even the most unusual request of our customers possible and put them on paper. It is great fun combining creativity with technical knowledge aiming for the perfect solution for everyone involved.“

Herbert Rentsch, design department

„As a fork-lift driver, you are one of many wheels in the Wiegand-Glas system. We make the ordered goods available for shipment and ensure that the containers can be delivered to the customer on time.“

Jörg Boller, fork-lift driver

„As trainee supervisor we always try to create a good basis for the career of our motivated and engaged trainees. We impart latest technology and knowledge to be put in practice at the high-tech equipment. Our trainees are the company's future. Carefully selected job trainings and continuing education keep our quality requirements on the highest level. The good cooperation of our managing directors, works council and personnel creates and ensures the future of the company and its employees.“

Stefan Büttner, trainee supervisor and deputy chairman of the works council in Steinbach am Wald



„Since 1946 is Konings NV, in Zonhoven (Belgium), active as a producer of jenever, ciders, liquors, cocktails and non-alcoholic drinks such as fruit and vegetables juices, nectar and energy drinks.“

In co-packing and filling of private labels for the major international retailers we are active worldwide. The collaboration with our suppliers builds the base of our success.

Together with Wiegand-Glas we have set ourselves the target to reach perfect quality of packaging and to guarantee just in time delivery. Within the last years, Wiegand-Glas has grown to a loyal supplier and partner. We at Konings want to continue this great partnership and develop new packaging.“

Pascal Verhoeven, Konings NV

„Wiegand-Glas has always focused on top quality. A high level of flexibility and reliability are also important to continue to satisfy our customers in Baden-Württemberg. Together with Wiegand-Glas as our loyal and competent partner, we improve the competitiveness in our markets.“

Marion Müllner, Müllner Kellereibedarf (supplier for viticulture)

„Wiegand-Glas has been a reliable and important supplier of Einig Zenzen for many years now. We purchase standard bottles in different shapes, colours and packaging and further work together with Wiegand-Glas when new bottles have to be constructed. The decision to make Wiegand-Glas our partner has ever been right and we are looking forward to continuing our good cooperation in the future.“

Ludwig Götz, Einig-Zenzen GmbH & Co. KG

Authentic

YOUR INPUT IS OUR MOTIVATION. Wiegand-Glas would like to continue to set positive impulse to developments in the international glass industry and vouch for ecology and sustainability. As not moving forwards means to us moving backwards, we furthermore will develop, improve and offer innovative solutions. We always welcome your input!

"Our job is to fulfill the wishes and demands of our customers quickly, reliably and without error. We bear responsibility, not only for the environment, but also for our staff working in our company."

Nikolaus Wiegand und Oliver Wiegand, managing directors

