



**GEMÜ**



**Valve and system solutions  
for complex applications and processes**



## Local Roots, Global Network

Through continuous innovative design and a focus on quality and proximity to customers, GEMÜ is one of today's leading worldwide manufacturers of valve, measurement and control systems.

**Corporate philosophy**

For over 50 years now, GEMÜ has been offering high-quality solutions for numerous different customer groups, and has a reputation for acting in a sustainable manner and providing future-proof jobs.

*"We share our passion for technology and our enthusiasm for people. This makes us strong for the future – across the world and regionally."*

Managing Directors Gert Müller and Stephan Müller

**Over 1900 specialists**

The GEMÜ group currently employs over 1900 employees worldwide, approx. 1000 of whom are in Germany. The comprehensive range of products is produced at six manufacturing sites in Switzerland, China, Brazil, France, the USA and Germany. Research & development, design and the majority of the production and assembly are located in Germany. With 27 subsidiaries and a large network of commercial partners, GEMÜ is now active in over 50 countries on all continents.

**Range of services**

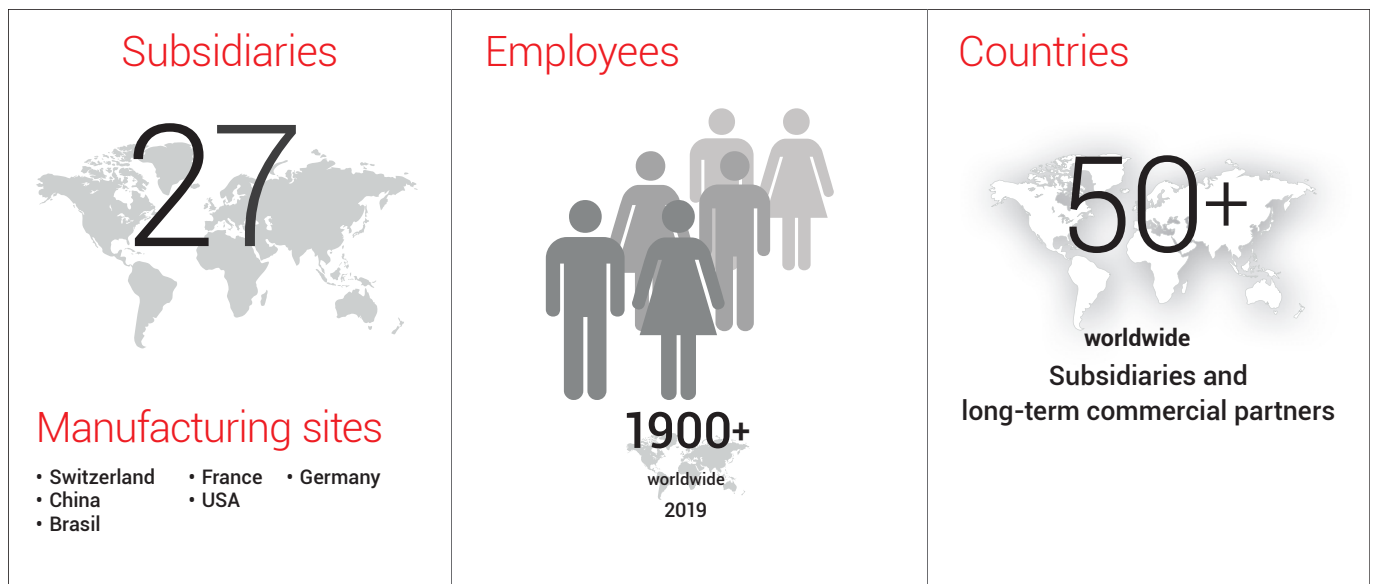
From initial consulting, research & development, and the complete production process, through to sales, service and maintenance, the company serves the whole value chain. This results in tailored solutions that deliver peak performance in the long term.

**Numerous product versions**

The wide-ranging modular system and the adaptable automation components mean that numerous product versions can be produced. This variety is unique to GEMÜ and provides an appropriate response to the increasingly specialized nature of process engineering.

**From individual manufacture to major projects**

As a solutions provider, GEMÜ is equipped for a wide variety of requirements – from customized multi-port valve blocks with a batch size of one, to standard components with a batch size of 1000.





**Customer-oriented and application-focussed**

With its restructuring into individual business areas, GEMÜ is taking into account the increasing requirements for process engineering.

#### **Even closer to the customer**

Thanks to its wide range of products, GEMÜ offers solutions for the most varied customer groups. To operate in a way that is more customer-oriented, strategic business units have been created:

- Pharma, Food & Biotech
- Industry
- Semiconductor
- Service
- Medical

#### **Pharma, Food & Biotech**

The Pharma, Food & Biotech business unit is the biggest business unit of the GEMÜ Group. With its large base of user knowledge and its efficient products, it is used for all of the processes of the pharmaceutical, biotechnology and cosmetics industries as well as the food and beverage industries.

#### **Industry**

Due to the variety of industrial applications, the Industry business unit has specialized in five main industrial sectors. Regardless of whether it concerns industrial water treatment, chemical industry and environmental engineering or the processing industry, the Industry business unit can provide the right range for these and other areas of application.

#### **Semiconductor**

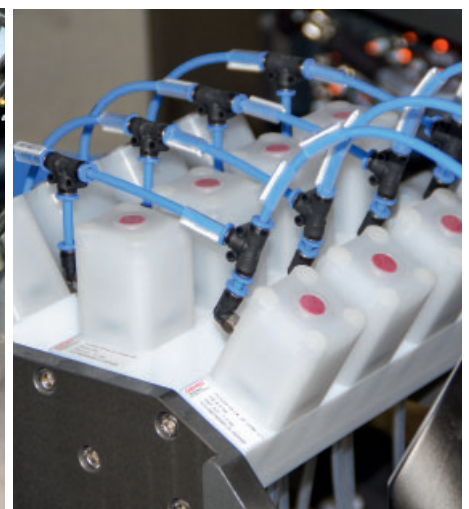
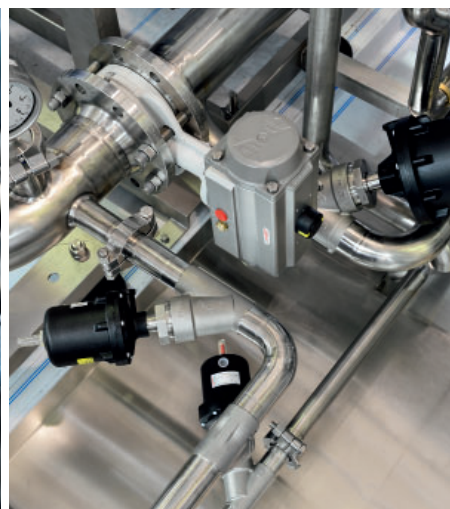
The Semiconductor business segment focuses on pure and ultra-pure process media in different areas of application. The focus here is on valves for systems in the production of semiconductors and microchips, the production of photovoltaic systems and batteries, and the manufacture of ultra-high-purity chemicals.

#### **Service**

In the Service business segment, GEMÜ brings together the activities in the after-sales sector, which can currently be divided into three main areas. Topics such as training courses for service and maintenance personnel, repair services or the commissioning of GEMÜ products directly at the customer's site are combined here.

#### **Medical**

As an engineering and production partner for medical technology companies and pharmaceutical manufacturers, GEMÜ Medical produces customized plastic solutions in the company's own cleanroom plant.





**Pharma, Food & Biotech**

Our many years of global experience and the first-class expertise of our highly qualified employees mean that we are one of the world's leading providers of valve technology, actuator technology and control systems in the following sectors:

- Pharmaceutical industry
- Foodstuffs
- Beverages
- Biotechnology
- Cosmetics
- Support processes (e.g. ultra-pure water treatment)

#### **Application examples in the pharmaceutical industry**

The production of medicines and vaccines without the use of living micro-organisms not only requires significant knowledge of the synthesis and isolation of active ingredients, but also a lot of delicate handling in the formulation. GEMÜ components and system solutions have been successfully used in applications such as peptide synthesis or blood plasma fractionation.

#### **Application examples in the foodstuff industry**

Day in, day out, foodstuffs provide the energy needed to maintain the human metabolism. But the procedures used have become as varied and complex as the foodstuffs themselves. GEMÜ diaphragm valves, diaphragm globe valves, globe valves, ball valves and butterfly valves have a hygienic design and control and regulate the manufacture of yoghurt, for example.

#### **Added value**

- Optimum surface nature
- Documentation & traceability
- Increased process reliability using RFID (GEMÜ CONEXO)
- Application-focussed configurations





Industry



No other area subjects valves to such a varied range of requirements as those found in industrial applications. Our decades of application experience flow directly into the new and further development of valves. GEMÜ valves have therefore also proven themselves time and again in demanding applications:

- Industrial water treatment
- Chemical engineering
- Power generation and environmental engineering
- Mechanical engineering and processing industry
- Surface finishing

#### **Application examples**

GEMÜ products are used around the globe in water treatment and wastewater treatment, the chemical industry, energy and environmental engineering, industrial plant and machinery, the paper industry, steel and metallurgical industry, mining and metal extraction, surface finishing, along with many other areas.

#### **Standard products and customized configurations**

The specific product range includes diaphragm valves, globe and control valves, butterfly valves, ball valves and solenoid valves, each available in metal or plastic versions, as well as accessories for measurement and control systems. The wide range of applications makes GEMÜ valves reliable all-rounders. As customized system solutions, plastic and metal GEMÜ multi-port valve blocks have been successfully used in industrial plant design and process engineering.

#### **Added value**

- Modular system
- Versatile applications
- Large variety of materials
- Standard components and customized solutions
- Valves and automation components from a single source





## Semiconductor

GEMÜ has excellent references for using valves in areas of application that have high purity requirements. The products are manufactured under strict quality controls in the cleanroom. The areas of application here include the following:

- Microelectronics
- Semiconductor production
- Battery production

#### **Application examples for semiconductor production**

Years of experience in various areas of semiconductor production along with the core skill of handling critical media mean that GEMÜ is well qualified to offer a product range that is tailored to meet the specific needs of the semiconductor industry. In addition, with customized solutions and an extensive system offering, innovative solutions to specific problems can be developed together with the customer.

#### **Application examples for chemical supply**

The purity of the process media used in many areas of high-tech production is increasingly decisive for the quality and quantity of the products. Numerous plant designers and end users select GEMÜ products when equipping their devices and production plants for reliable and high-performance media control and regulation.

#### **Added value**

- Specified or controlled raw materials
- Manufacture under cleanroom conditions
- Complete traceability
- 100% test (injection-moulded bodies, tightness, etc.)
- Continuous improvement process





## Service

The correct installation and forward-looking servicing of valve, measurement and control components are important prerequisites for efficient operation and optimum operating cycles for a plant. GEMÜ offers support for its customers in three areas here:

- Technical training
- In-house service
- Field service

### Technical training

With a multi-stage training system and individual training models, employees from Installation and Service pass on all of the required knowledge and tools that are required to install and maintain GEMÜ products. This also includes an innovative, specially designed VR training course (virtual reality training). The movements when carrying out maintenance work with GEMÜ CONEXO are practised and trained.

### In-house and field service

Well-trained service engineers advise GEMÜ customers on commissioning the valve, measurement and control components, and they support them during inspection, maintenance and upgrade work. Repair and maintenance work can be carried out at the service centres or directly on site. If you wish, qualified fitters can also assume responsibility for the component inventory, data management and retrofitting for CONEXO.

### Added value

- Optimum design and setting of valve solutions
- Instrumentation, pre-installation and initialization of measurement and control components
- Forward-looking servicing with GEMÜ CONEXO
- Remote maintenance by the manufacturer





Medical

As an engineering and production partner for medical technology companies and pharmaceutical manufacturers, GEMÜ Medical produces customized plastic solutions for the following market segments:

- Drug delivery
- Medical devices
- Diabetes care
- Disposables
- Laboratory equipment

#### **Sample service for plastics engineering**

GEMÜ advises its customers – for example, when optimizing and simplifying existing designs for manufacturing with plastic with the help of 3D-CAD (Solidworks) and FEM (Finite Element Method). Furthermore, the engineers and technicians provide support when selecting appropriate materials.

#### **Sample service for cleanroom injection moulding**

On the injection moulding machines in the cleanroom with ISO class 8 (in operation) and GMP class C, GEMÜ manufactures customer solutions efficiently and precisely. In doing so, it specializes in the processing of demanding high-temperature plastics, the integration of inserts and multiple-component injection moulding. Thanks to additional flow-box systems, processing can be achieved locally that is one class higher.

#### **Added value**

- Use of specified raw materials with continuous incoming inspection
- SPC – statistic process control and reference sampling
- Voluntary supervision and customer audits – certified in accordance with ISO 9001 and ISO 13485





Research & development



Customer benefits have been at the forefront for GEMÜ right from the outset.

#### **Investment in the future**

In discussion with customers, development partners and educational establishments, GEMÜ continuously invests in product optimization and new products and innovations. More than 5% of turnover is invested in research & development every year. Over 100 members of staff work in development and design, and are responsible for the relevant product specifications.

#### **Practice- and application-oriented**

Every product must pass the tests carried out in the technical centre, during quality control and at development partners' sites. Numerous series products, such as the world's first single-use diaphragm valve – the GEMÜ SUMONDO – have been and are being created in close collaboration with our customers. In addition, special valves and system solutions are designed. GEMÜ is the technological leader in stainless steel or plastic multi-port valve block solutions and continually expands the possibilities for their application.

#### **New standards and technologies**

GEMÜ does not just implement new, expanded or modified standards in a targeted manner, but also promotes the development of these standards. The company is therefore a founding member of the IO-Link consortium, for example, which can be used to uniformly control standard sensors and actuators.

#### **GEMÜ CONEXO**

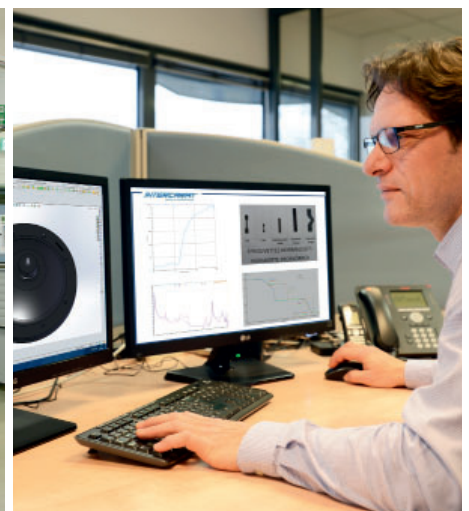
At the same time, new technologies are being tested in order to make products and services future-proof. With the CONEXO system, GEMÜ customers already have the option to call up and interpret valuable information about process components. Furthermore, the servicing process is made easier and its documentation is significantly simplified.

#### **Approvals and declarations of conformity**

GEMÜ components and systems are checked to ensure that they comply with all statutory requirements and, depending on the area of application, they are certified or comply with a standard regulatory code. Examples of this are product versions with a DVGW (German Technical and Scientific Association for Gas and Water) type examination certificate or with a 3A, ATEX or FDA Certificate of Conformity.

#### **Modern production processes**

In the area of manufacturing and assembly, GEMÜ continuously adapts its processes to changing and new requirements. For example, the company was one of the first manufacturers to produce high-purity valves under cleanroom conditions.





## Manufacturing and assembly

GEMÜ is unique: Its wide variety of products and materials spans numerous fields of application in the area of valves, measurement and control systems.

**Materials knowledge and manufacturing capabilities**

GEMÜ products are manufactured from numerous individual plastic and metal components. In doing so, as a manufacturer, GEMÜ sets the standards in terms of service life, robustness and reliability. This is due to our knowledge and understanding of the requirements and procedures involved in the processing industry. GEMÜ has therefore been able to serve many future markets with groundbreaking solutions. For example, for the past 20 years, GEMÜ has been processing an optimized PTFE mixture for diaphragms, thanks to which it was possible to significantly increase the service life in most applications.

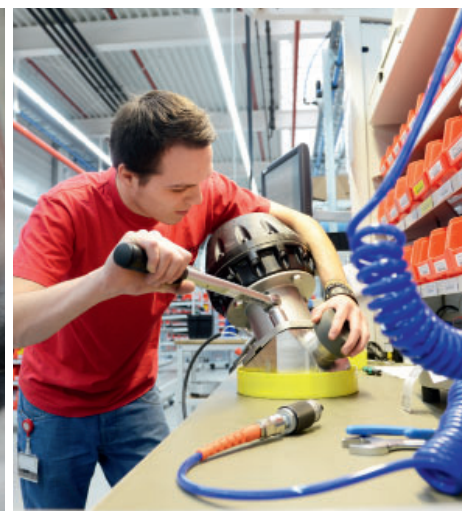
**Efficient production planning and production control**

At GEMÜ, the production planning for various batch sizes and specifications is flexibly aligned towards the needs of the customer. Each manufacturing site is highly specialized, with modern assembly areas and state-of-the-art technology at their disposal. A modern IT infrastructure supports the production and therefore guarantees reliable scheduling.

At GEMÜ, manual manufacturing, partial and full automation go hand in hand. In addition to manual workstations, robots, automatic welding machines, and other automated systems are used. As part of the continuous improvement process, we ensure that products are manufactured in the most efficient and best possible way.

**Close-to-market production**

GEMÜ manufactures its comprehensive range of products on three continents: Germany, Switzerland, China, Brazil, France and the USA. The majority of the manufacturing and assembly work is carried out at the German sites, while the cleanroom manufacturing has been based in Emmen in Switzerland. The other locations are predominantly used for manufacturing market-specific country variants and customer solutions in accordance with European quality standards. Examples include full bore diaphragm valves (Brazil), quarter turn valves (China) and valve configurations (USA). If there is sufficient demand, GEMÜ also qualifies these local products for other countries and/or for worldwide use.





## Quality

GEMÜ products and their individual components are carefully checked and documented.

### **Audited manufacturing processes**

GEMÜ produces at six locations worldwide. Among others, these factories are certified in accordance with ISO 9001, ISO 14001, ISO 13485 or in accordance with the locally applicable standards.

### **Incoming goods and manufacturing inspections**

Incoming-goods, manufacturing and assembly procedures are controlled by a computer-aided quality management system (CAQ) at GEMÜ. For example, this system documents all of the incoming goods and manufacturing test data, and manages the test equipment, including all calibration documents.

Modern machinery and optimized workstations enable GEMÜ's specialist technicians to design every manufacturing step in a practical and efficient manner and to minimize error sources. At the same time, they carry out production examinations, such as SPC measurements or leak tests.

Specially constructed test rigs are available for various test processes. One example is the CIP/SIP test rig for diaphragm valves, which mean that all diaphragm sizes in customized cleaning and sterilization processes can be tested. GEMÜ butterfly valves are also regularly tested in accordance with DIN EN12266.

### **Manufacturing stainless steel products**

Every effort is made to ensure the quality of each individual weld seam for stainless steel actuators and other stainless steel products. This endeavour is also reflected in GEMÜ's status as a DIN EN ISO 3834 certified welding company.

### **Cleanroom manufacturing**

The manufacturing process for ultra-pure components and systems takes place in the cleanroom plant in Switzerland. The site, which opened in 2012, manufactures products in accordance with EN ISO 14644-1 class 8 (in operation) and GMP class C. Where necessary, in the area of installation, an upgrading to ISO 6 (in operation) can take place.



## Logistics

For many customers, on-time delivery is an important criterion when purchasing.

### Worldwide storage and delivery capacities

To ensure that GEMÜ products are at the right place, at the right time and in the right quantity, the group maintains its own storage capacities, which are interlinked using IT infrastructure, on every continent. In addition to the products for the local market, the company also keeps in stock all common valve technology, measuring

system and control technology components in its product range. Furthermore, in recent years, several hubs have been commissioned, into which all customer-related production and logistics processes have been integrated. The European Production and Logistics Centre (PLZ-E) in Kupferzell, Germany, is home to the current largest hub in the GEMÜ Group.

An additional hub is located at the second-largest GEMÜ location – the subsidiary in Shanghai, China.





## Sustainability

The very first GEMÜ product in 1964, a plastic solenoid valve, combined economical and material-saving aspects. We feel committed to this tradition.

### **Sustainable actions and growth**

Economical, ecological and social sustainability are new terms but their core objectives have accompanied the GEMÜ Group for over 50 years. Right from his first patent, company founder Fritz Müller achieved material savings of 50% when compared to conventional solutions. Since then, new developments, such as this plastic solenoid valve from 1964, have ensured that our company has experienced organic and consistent growth. Our employees have grown with us, as have the companies that we are able to support in Germany and across the world.

### **Ecological and economic sustainability**

GEMÜ's philosophy of using as little material and energy as possible for developing, manufacturing, processing and transporting its products still stands true. In this way, we strive to interlink economic and environmental issues. Underpinned by our management team and our employees, we have been able to bring high-performance and low-consumption valves and automation components to the market. For example, the GEMÜ R690 plastic diaphragm valve, which has average material savings of 30% when compared to the predecessor product.

### **Social sustainability**

We are in close contact with our manufacturing sites all over the world and discuss the investments to be made in occupational safety and employee protection. In addition to reducing the risk of injury and establishing ergonomic workstations, we are focusing our attention on promoting young talent and on the further training and education of our employees. We also support local projects by donating and sponsoring.

# Worldwide presence

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 GEMÜ manufacturing site

 GEMÜ subsidiary

