

Tableware
Special-purpose machinery
Container glass
Beverage
Bulk materials



We automate your success

futronic has around 50 years of experience developing complex automation solutions for plant and equipment manufacturers worldwide.



Michael Preuss
Managing Director, futronic GmbH

futronic sets global standards

futronic is one of the world's leading providers of complex automation solutions for plant and equipment manufacturers in the glassmaking industry. We have also made a name for ourselves with innovative products and services for suppliers and producers in the industrial automation and various other sectors.

High quality automation solutions

Our company's core competencies are in the fields of control technology, drive components and programmable controllers (PLC). As a system supplier, we offer you high quality automation solutions – from design, development, programming, production, testing and final acceptance right up to commissioning on site. With more than 80 highly qualified staff on our payroll and around 50 years of experience in the industry, we have the capacity and expertise that are necessary to develop perfect solutions. We design and install efficient systems offering excellent value for money.

Effective partnerships

You can learn more about futronic on the next few pages. We'll show you what we're capable of, give you an insight into our experience, describe a few reference projects and introduce you to our products. Get to know more about our company and what makes us unique!

A handwritten signature in black ink that reads "Michael Preuss". The signature is written in a cursive, slightly stylized font.

Michael Preuß

Together we take control of your success

Expertise and experience, development know-how and a capacity for innovation go hand in hand at futronic. For perfect solutions and efficient systems. Built on more than 50 years of success. With customers all over the world. That's what defines us.

50



countries
around the globe

Our customers trust in the reliability and perfection of futronic controls and drives in more than 50 countries around the globe. In container glass manufacturing alone, our technology sets the rhythm for more than 1000 machines and systems worldwide.

50



years of
industry experience

50 years of experience in the glassmaking industry are quite a feat. Yet we have also long made a name for ourselves with innovative products and services for suppliers and producers in the industrial automation and various other sectors.

Perfect
solutions,
efficient systems.
Made
in Tett nang.

Bring ideas
to life.
Shape the
future.

80



highly
qualified people

Around 80 highly qualified people at futronic are engaged in complex automation solutions and technological challenges. Dedicated, focused, high performers. The goals: to always be one step ahead and to add value for our customers.

Individual
solutions for
individual
requirements.

Customised solutions for industrial automation

It all began with control systems and automation solutions for container glass production. Yet in the meantime, other sectors too are profiting from our experts' know-how and experience. The goals: more reliable production processes, higher product quality and improved productivity.

If you're looking for a partner to implement ever more complex automation tasks for your machinery and equipment, we'll provide you with competent support. Profit from a full range of services from one source.



Stephan Pies
Director Sales & Head of Order Processing

Automation projects expertly managed

Individual requirements call for individual solutions. With our rich know-how and even richer experience, we at futronic have been realising complex automation projects for customers in a variety of industries for many years now. On request, our experts can manage the entire project lifecycle on your behalf and support you from the initial analysis of your requirements right through to commissioning of your machine or system.

We advise you with regard to the feasibility of a particular system or a complete or partial solution, then develop a detailed automation concept that is optimally adapted to your ideas, your visions and your objectives. Our specialists analyse the project requirements, plan the electrics, design the necessary hardware and develop the control and visualisation software. We assist you with the selection and procurement of suitable components such as sensors, actuators and motors for controls and drives, which are precisely aligned to your wishes and demands. We draft the requirements specification for you and take care of the hardware and software engineering. We also formulate a suitable safety concept and put together the necessary safety components.

We provide solutions. Challenge us!



Bulk Materials

For more than 15 years now, we have been handling automation projects for leading manufacturers in the international tyre, food and chemical industries. We make sure everything fits together perfectly – because our customers need to rely on their production systems one hundred percent.

Projects and applications:

- Pneumatic material transport
- Goods unloading systems for trucks, rail vehicles or big bags
- Fully automatic product weighing system
- Oil handling systems and container heaters
- Liquid dosing systems with dosing cylinders
- Oil transport in storage silos
- Feeding systems for mixers in extrusion processes





Beverage

Guaranteed quality and food safety are essential in the beverage industry. This also includes reliable control of all filtration systems, for example. We have extensive project experience with renowned customers all over the world.

Projects and applications:

- Control systems for beverage filtration equipment
- Control systems for CIP and ancillary equipment
- Supply and integration of pneumatic components



Special-Purpose Machinery

Increasingly varied requirements for machinery and equipment as well as processes and workflows demand highly specialised solutions. We supply controls and drives for automatic and semi-automatic systems – whether new developments or for one-offs or small-volume production.

Projects and applications:

- Control systems for handling and assembly
- Pick & place applications
- Robotic applications
- Control systems for special applications





Container Glass & Tableware

At home in the heart of the glassmaking industry

Customer expectations as regards cost effectiveness, product quality, productivity and energy efficiency are rising continuously. That is why more automation is also needed in the glassmaking industry. Over the past five decades, futronic has gained a reputation for innovative and reliable controls and drives for container glass machinery and equipment.

Innovative controls and drives

Over a thousand of our systems are currently in action around the globe. Of course, they have to be brought into line with the latest state of the art from time to time, to enable existing production facilities to also be used efficiently in the future. Minor, but decisive, refurbishments are often sufficient to boost their performance. Lower energy consumption, leading to lower costs, and significantly better productivity are other advantages.

Efficient refurbishments

In the meantime, futronic's developers and engineers can look back on several decades of experience with retrofit and refurbishment projects. Our specialists can draw on a huge knowledge base as well as rich experience of the various systems – the outcome of our partnerships with leading producers, often over a period of many years.

As a futronic user, you too can reap the benefits of our experience and systems expertise. We help you stay that decisive step ahead. After all, your future success will be largely determined by your choice of automation system. A decision for futronic is a decision you won't regret. futronic technologies are a sound investment in the future.





Container Glass

Over the years, futronic has developed a whole series of innovative controls and drives to meet the most varied requirements at the hot and cold ends. At the heart of our technology is the FMT24S (Flexible Modular Timing System), a distributed control system that is capable of controlling all sequences and processes on an IS machine with anything up to 24 sections.

Thanks to the consistent deployment of modern, low-maintenance bus technology, the system is fully scalable and can be flexibly adapted to meet the glass-making industry's highly specific needs. We offer an array of models from low-budget for modernising 4-section machines to high-end solutions involving 24 sections. A high degree of flexibility – essential for efficient production – and maximum security for your investment are guaranteed.

The FMT24S can be easily implemented into your company's existing IT and data structures.

Our portfolio also includes an extensive range of drive systems, components and controls for seamless integration into the FMT environment, or on request as a standalone solution, for instance servo drives, reject systems or control systems for feeders and lehrs. The FMT24S trends new paths when it comes to controlling and visualising different machine cycles and mechanisms. Comprehensive services and full availability of spare parts for many years to come are aspects we take for granted.

futronicproducts

- **FMT24S – Flexible Modular Timing System**
Control system for IS machines, compatible with machines from different manufacturers
- **FMT24S Trainer – IS Training Section**
FMT-compatible mini control system for training, maintenance and job development
- **FDU24S – Flexible Drive Unit**
Servo drive system, for example for feeders, shears and gob distributors
- **STO24S – Servo Take Out**
Control and drive system for the servo take-out
- **PDU24S – Pusher Drive Unit**
Control and drive system for single and two-axis pushers
- **SIU24S – Servo Invert Unit**
Control and drive system for the servo invert



- **ASDR – Autonomous Stuck and Down Ware Reject System**
Standalone reject system for detecting and rejecting faulty hollow glass containers
- **FLC – Futronic Lehr Control System**
Lehr control system, compatible with standard annealing lehrs from different manufacturers



Tableware

Industrial tableware production involves complex processes which have to be reliably reproducible. Consistently high product quality can only be assured with the help of sophisticated and individually adapted control technology. That is why we developed a dual control solution which unites the machine control system and the synchronous drive on a common hardware platform.

The “Futronic Blow machine Control system” (FBC) combines the control and the synchronous drive for rotary blowing machines with up to 32 moulding sections. The “Futronic Press machine Control system” (FPC) was developed by our engineers to control the presses that make the stems. The FPC is a modular control and drive system for use on rotating press machines with up to 20 sections or 16 double gobs. This novel automation concept meets the complete requirements profile from the feeder through the glass moulding equipment to the conveyor for the finished product.

System components which are especially quality sensitive are additionally offered as standalone solutions. In keeping with the futronic philosophy, our FBC and FPC controls and drives also provide an inexpensive way to retrofit and modernise older lines.

futronicproducts

- **FBC – Futronic Blow Machine Control System**
Machine control system and synchronous drive for blow moulding machines with up to 32 sections and 128 servo axes
- **FPC – Futronic Press Machine Control System**
Machine control system and synchronous drive for press machines with up to 20 sections
- **FFP – Futronic Fire Polishing**
Control system for fire polishing units used to treat tableware surfaces
- **FCC – Futronic Crack-off Machine Control System**
Control and drive system for rotating crack-off machines



Professional Services

We offer a full range of services from one source

Consulting & Management

- Advice and project support, from the requirements analysis to commissioning
- Development of automation concepts
- Selection and procurement of suitable components

Software Engineering

- Development of complex control strategies
- Customised software for drives and controls
- PLC programming and process control systems
- Robot programming
- Visualisations and interface programming

Installation & Commissioning

- Installation and commissioning of control systems worldwide
- Operator training
- Process optimisation

Retrofits

- Upgrading of existing machines to modern, high performance control systems
- Coordination of conversion work with non-productive times
- Risk analysis and system documentation updates

Electronics Development

- Development of dedicated electronics
- Layout design
- Microcontroller programming

Hardware Engineering

- Development and implementation of hardware designs
- Creation of circuit diagrams in EPlan incl. Pro Panel
- CE certification and documentation

Control Cabinet Manufacturing

- Fabrication in accordance with current standards and regulations
- Preparation for UL certification
- From project-specific one-offs to complete series
- Both standard cables and special wiring

Service & Maintenance

- Prompt support by telephone, email or remote access
- Timely on-site support worldwide from our service engineers
- Individual, proactive maintenance contracts

Training

- On-site operator training
- Training geared to practical requirements at the futronic Training Centre

Innovation, Quality, Expertise in Automation
futronic products have been in action for many years now on all five continents.



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