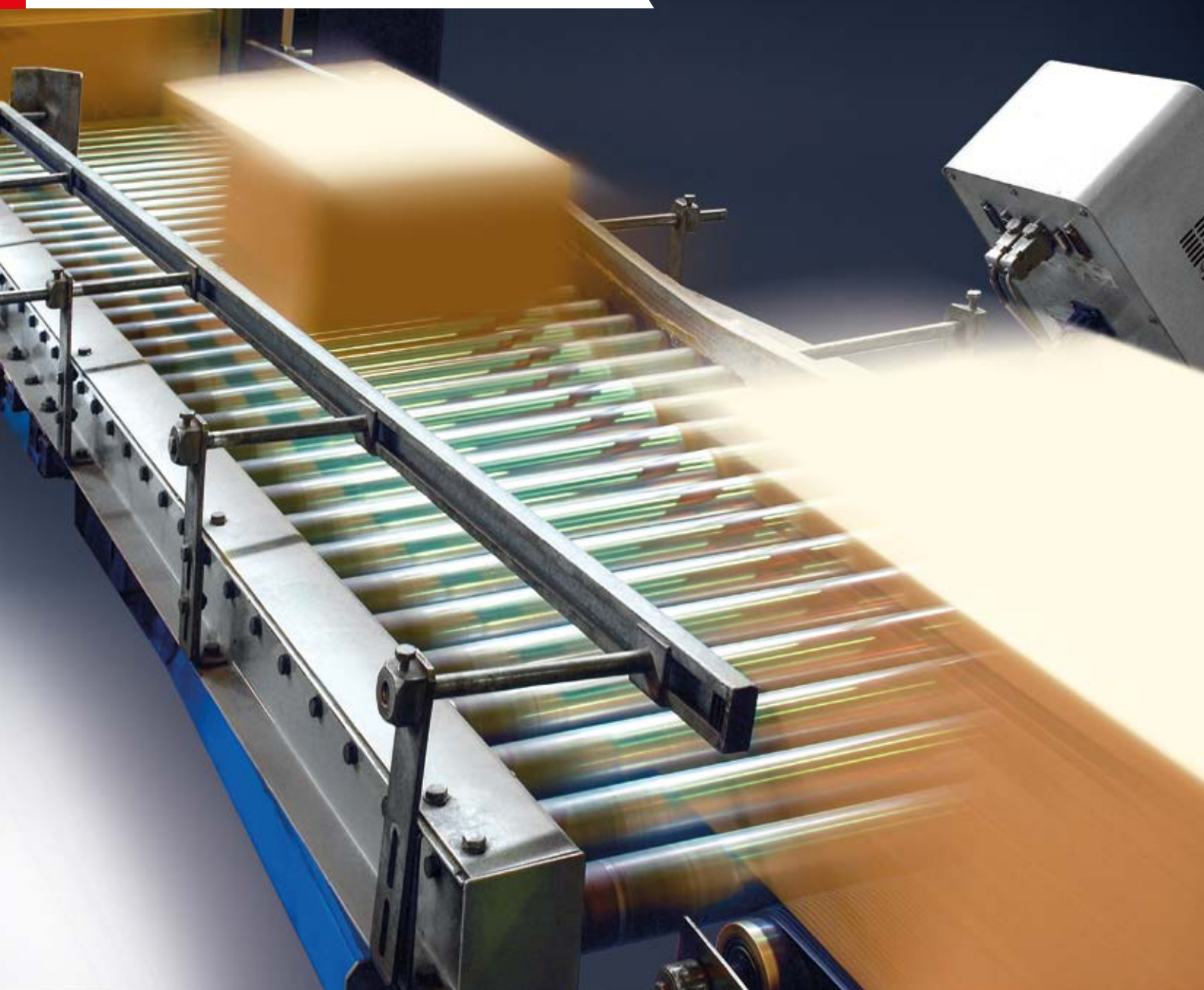


COMPONENTS AND SYSTEMS FOR THE PACKAGING INDUSTRY



CAMOZZI AUTOMATION

OUR FOCUS



Camozzi Automation is one of the world's leading suppliers of advanced pneumatic **components and systems for industrial automation**.

We have a network of subsidiaries and distributors serving more than 70 countries and spanning the world.

Our offering includes control components for motion and fluid (both liquids and gases), systems and technologies **for applications in all sectors**.

Our mission is to accompany you through the development of innovative, efficient and **high added-value solutions** that benefit the users and protect the environment. We do this in part by **designing flexible, adaptable components**, that enable you to create robust future-proof applications and solutions.

In today's highly competitive markets, it is of vital importance to be able to distinguish yourself from others by offering **processes, technologies, skills and services to support the product**. Our goal is to work closely with our customers, establishing **long-term relationships** with them that will endure and evolve for many years.

Camozzi Automation is an innovator in the design and production of **motion and fluid control components**, systems and technologies for Industrial Automation, Transportation and the Life Science industries.

Camozzi Automation's portfolio includes ever-more **IIoT** (Industrial Internet of Things) **products and solutions**. We create added-value for our customers by combining mechanical, electronic and digital technologies to ensure reliable and flexible solutions that enable production efficiency.

One of our major roles is to enable customers to **digitalise their production processes**. We create effective **cyber-physical systems** that constantly improve the performance of processes and the management of data chains.

OUR SECTORS



INDUSTRIAL AUTOMATION

- Packaging
- Food & Beverage
- Plastics & Rubber
- Automotive
- Electronic Systems
- Textile Machinery
- Assembly & Robotics
- Printing & Paper
- Woodworking Machinery



LIFE SCIENCE

- Medical
- Analytical



TRANSPORTATION

- Truck & Trailer
- BUS & COACH
- Railway
- Off Highway
- Passenger car & Light Duty





TECHNOLOGIES AND EXPERTISE TO IMPROVE PERFORMANCE, SAFETY AND ENERGY EFFICIENCY

Packaging machinery represents some of the most dynamic challenges faced by automation engineers.

The packaging industry requires solutions that are **high tech, efficient and flexible** to create machines that are bespoke or highly customised to the tasks in hand. In order to offer a complete service that embraces both **technology** and **expertise**, Camozzi Automation collaborates with its customers to offer solutions and applications that **optimise the production processes of the machines**.

Camozzi Automation has built up vast experience and knowledge across the automation components industry, and combined it with an understanding of **different technologies** for actuation and fluid control. Customers can access this to create a competitive advantage by developing **optimum solutions** for efficiency, effectiveness and adaptability.

Industrial sectors and applications



Chemical
industry



Consumer
goods



Food
& beverage



Pharma
& cosmetics



General
purpose



BENEFITS

Optimisation of the production process

Increased performance

Maximum productivity and reliability

Customised solutions
for every production phase

Integrated systems
for Smart Industrial automation

COMPONENTS AND INTEGRATED SYSTEMS FOR EVERY PRODUCTION PHASE



1 PROCESS & PRIMARY PACKAGING



The first phase of process and primary packaging is the most delicate one, as direct contact with the product (that may be, for example, food, pharmaceuticals or a cosmetic) requires solutions that avoid any form of contamination. It is also essential to ensure maximum reliability while maintaining the flexibility to process different products without reducing the overall efficiency of the equipment (OEE).

- Primary wrapping
- Fillers and dosing devices
- FFS (Form, Fill and Seal)
- Cleaning machines

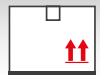


2 SECONDARY PACKAGING



The next phase is represented by secondary packaging. Here the packaging is not in direct contact with the product but wraps or boxes one or more primary containers. After this, the packaging is closed and labelled, then passed on to the next process. Secondary processing requires very high production cycles. As a consequence, it is essential to use reliable, efficient and robust components.

- Carton erecting machines
- Wrapping machines
- Sealing machines
- Labellers



3 TERTIARY PACKAGING



In the last phase, tertiary packaging, two or more containers (primary and/or secondary) are packed together to form multi-packs, for safe and easy handling and to aid all subsequent logistical operations. This phase is represented by large sized wrapping machines, palletisers, labellers and cartoning machines that work at lower speeds, but with larger loads. As a consequence, robust energy efficient solutions are needed.

- Wrapping machines
- Palletisers
- Labellers
- Cartoning machines

CONTROL AND HANDLING TECHNOLOGIES FOR EVERY STEP OF THE PRODUCTION PROCESS



Every application along a production line has different requirements. These can be met through the use of **pneumatic solutions, electromechanical technologies**, or the integration of both.

Pneumatic technology is **widely used** in packaging machinery because it is compact, light and easy to clean. Electromechanical actuation is used in a **complementary way**, combining speed and acceleration with hyper-accurate positioning control.

Camozzi Automation's range of standard products includes **solid, reliable** and **efficient components** that are suitable for use in the most complex systems and **demanding environmental conditions**.

Our aim is to **offer solutions and integrated systems** that can provide the highest reliability, productivity and flexibility in every step of the packaging process.

SOLUTIONS FOR PRIMARY PACKAGING

Fluid control systems, steel components

SOLUTIONS FOR SECONDARY PACKAGING

Pneumatically operated ISO and miniaturised cylinders, valve islands with Fieldbus and Ethernet

SOLUTIONS FOR TERTIARY PACKAGING

Pneumatically and electromechanically operated cylinders and axes, handling systems

PACKAGING LINES

There are critical characteristics that are common to all packaging lines, whether they are handling chemicals, pharmaceutical, personal care products or foodstuffs.

Packaging, as well as its fundamental role of **protecting the product through the production**, storage and transportation operations, is

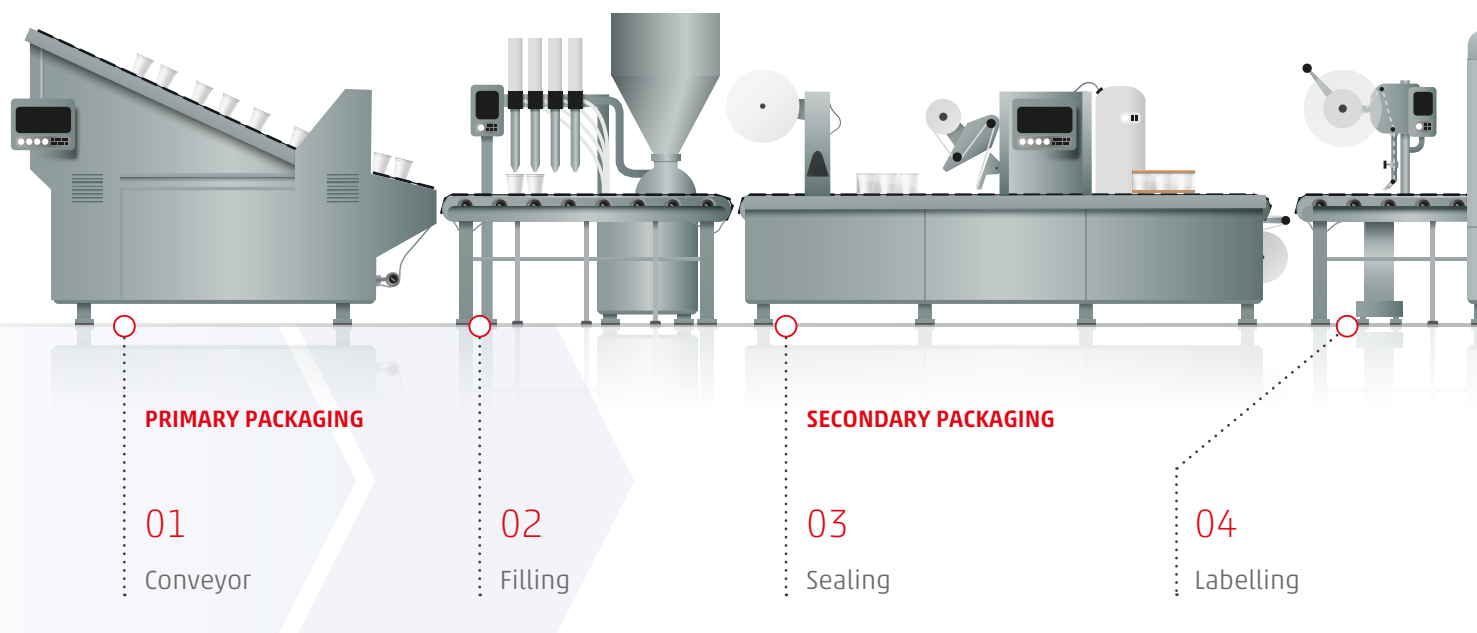
Solenoid valve



Modular FRL



Stainless steel fitting



Valve island



Stainless steel cylinder



Multi-serial module



also a valuable marketing tool. It can be used to grab customers' attention and to **differentiate the product from its competition**.

Packaging machinery therefore not only performs a vital role in ensuring the effectiveness and efficiency of production processes, it also allows manufacturers to **gain a competitive advantage**.

Automation, therefore, must adapt to the peculiarities of each production phase, **decreasing the risk of contamination** while increasing productivity, flexibility, reliability and precision of packaging machines.

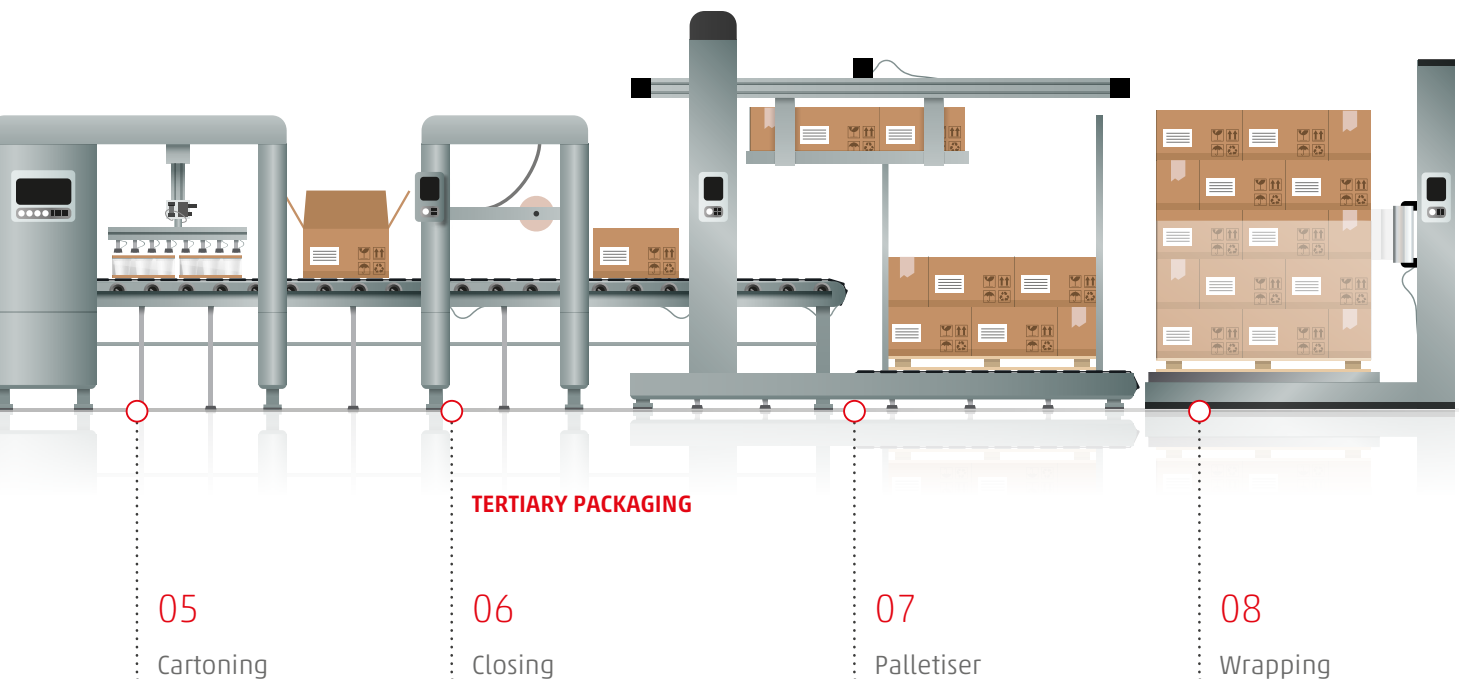
■ Mini-cylinder



■ Guided cylinder



■ Parallel gripper



■ Proportional regulator



■ Electromechanical cylinder and electromechanical axis



■ Compact cylinder



CAMOZZI'S MULTI-TECHNOLOGICAL APPROACH

Technologies ensuring production efficiency



We analyse every **individual application** to create optimum solutions by selecting **the most appropriate technology**, be it pneumatic, electric or proportional, for each task. This requires knowledge of the technical capabilities of each technology and individual components, combined with knowledge of the functional characteristics of **each application**.

Camozzi Automation's ability to offer all technologies is coupled with its ability to combine them creatively to produce precise individual movements. This optimises overall **machine performance** to create a competitive advantage for the user.

The reliability of our pneumatic valves, actuators and components is married with accuracy in the control of proportional regulators and valves. This is integrated with the speed and accuracy in positioning of electromechanical cylinders and axes, which ultimately guarantees effective solutions **for all application in every stage of the packaging line**.

BENEFITS



Flexibility and productivity



Solutions for any application



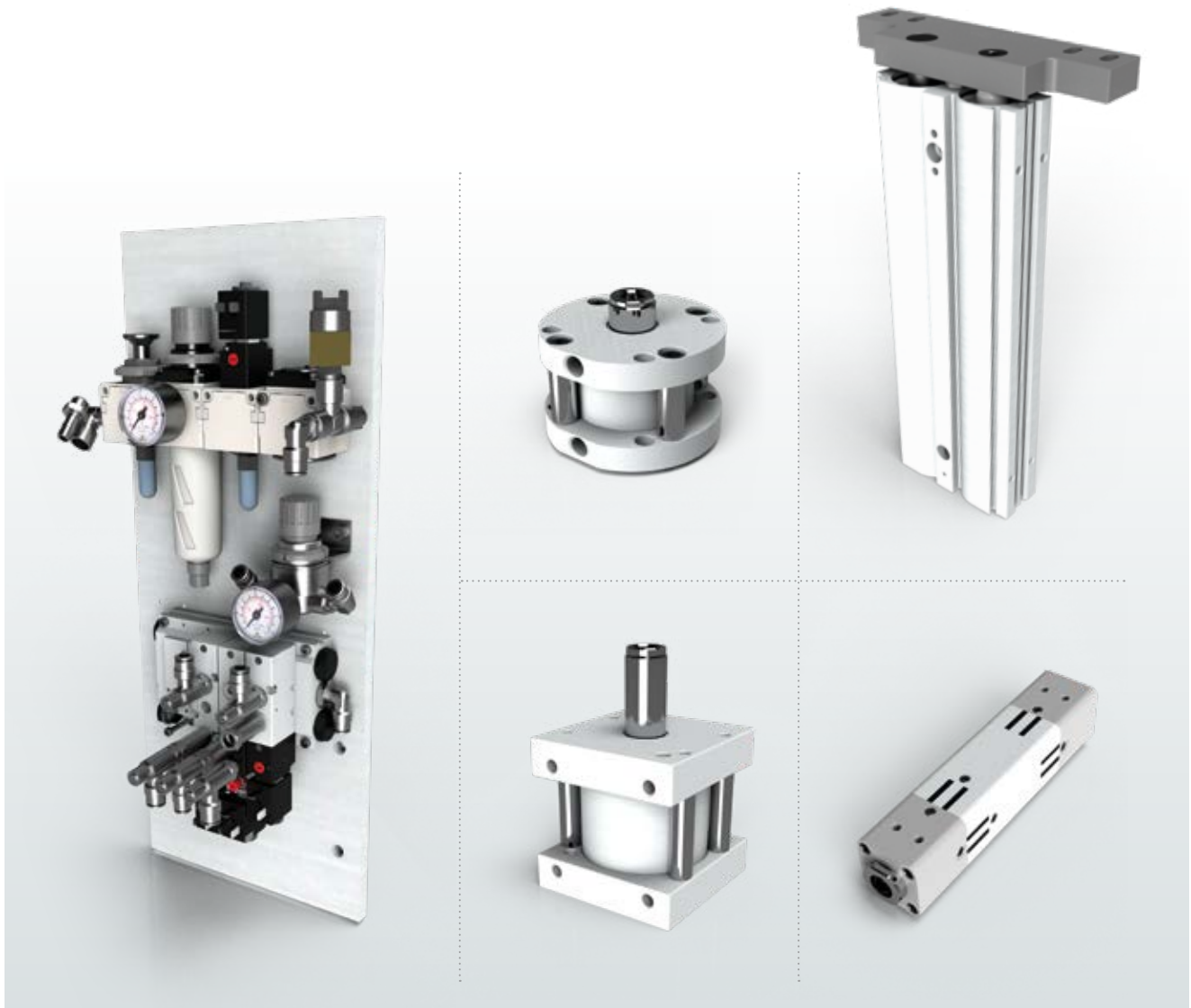
Optimisation of the actuation system

CUSTOMISED SOLUTIONS FOR EVERY NEED

Camozzi Automation offers machine builders and users a broad range of **customised solutions** that reduce **time to market** as well as guaranteeing the efficiency and reliability of their machines.

Projects worked on with customers may include the **engineering of new products** or the design of complex **bespoke systems** which increase productivity, reduce assembly and setup times, or **enhance reliability**.

We **create added-value for our customers** by combining mechanical and digital technologies, to ensure reliability, flexibility and increased production efficiency. The experience gained over many years allows us to accompany our partners **from idea to implementation**, respecting constraints, standards, technical requirements and project times.



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