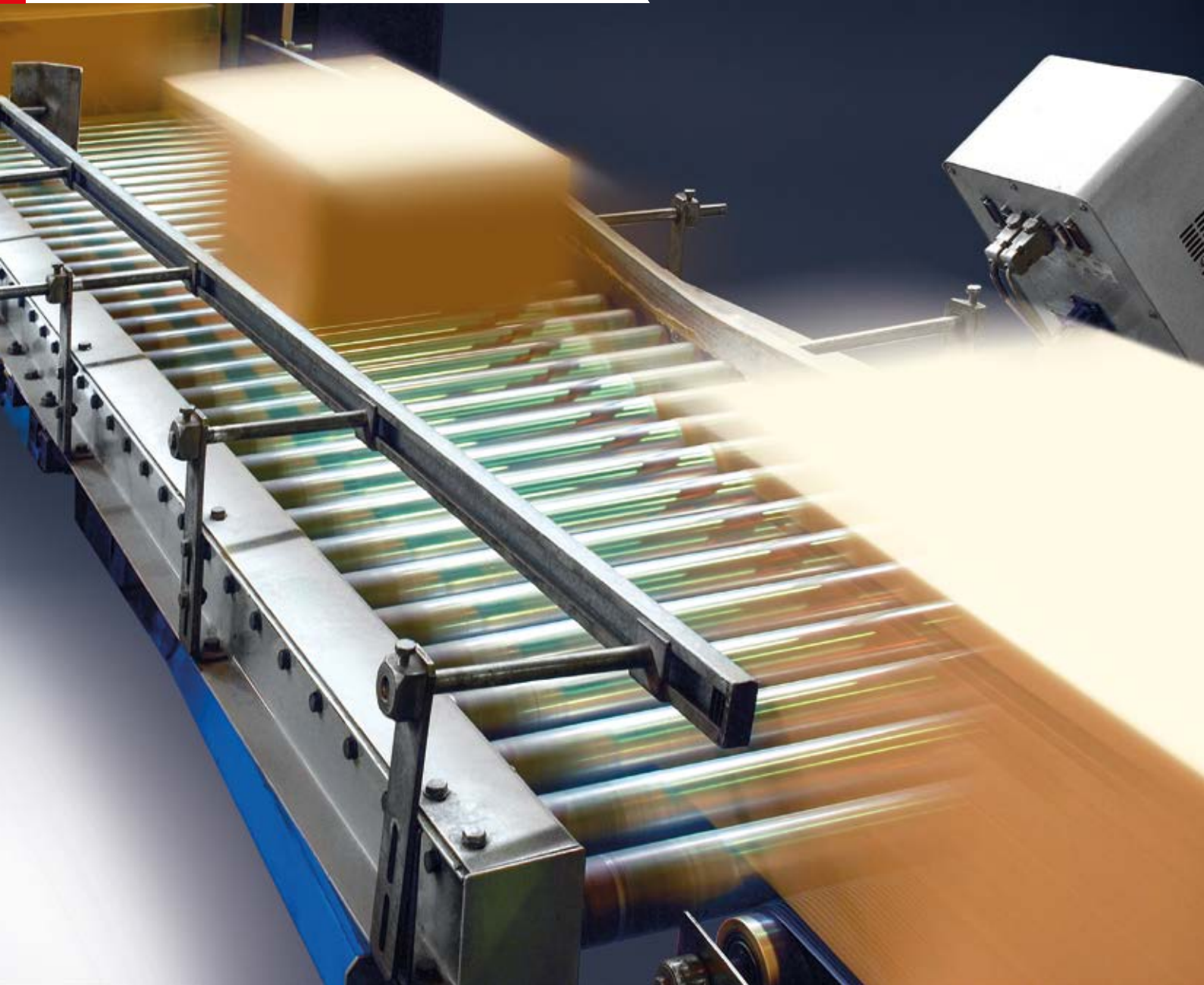


OVERVIEW



COMPONENTS AND SYSTEMS FOR THE PACKAGING INDUSTRY



AUTOMATION COMPONENTS AND SOLUTIONS



Camozzi Automation offers a wide range of **components, systems and technologies for the industrial automation sector**, the control of liquid and gas fluids as well as applications dedicated to the transportation industry and life sciences. Camozzi Automation's design architecture allows us to offer customers real added value with **high-performance and sustainable products**.

Our mission is to accompany you in the development of innovative **intelligent production** solutions that are energy efficient and share the same attention to the future of the environment and people.

We make use of advanced technologies and digital solutions such as **artificial intelligence (AI)**, **machine learning** and **IoT** to optimise production processes.

With these technologies, we are able to carry out activities such as **predictive maintenance** – using automatic data analysis and learning algorithms for equipment monitoring and the prediction



of maintenance times – **scenario modelling and simulation**, which allows for the prompt implementation of changes in the real world, robotics to **increase efficiency and reduce costs**, and additive manufacturing for rapid prototyping.

Our goal is to work closely with customers to establish lasting relationships and accompany them into the future.

OUR SECTORS



Industrial Automation

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



Life Science

- Medical Devices
- Biotechnologies



Transportation

- Truck & Trailer
- Bus & Coach
- Railway
- Off Highway
- Passenger Car & Light Duty Commercial

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

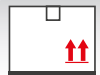


2 SECONDARY PACKAGING



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
- Labelling machines



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
- Labelling machines
- 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

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SOLUTIONS FOR SECONDARY PACKAGING

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

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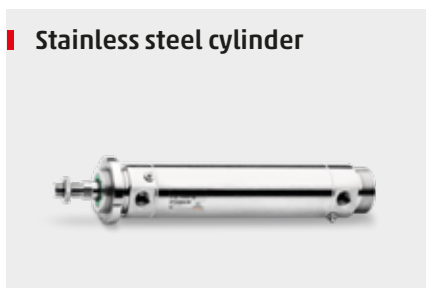
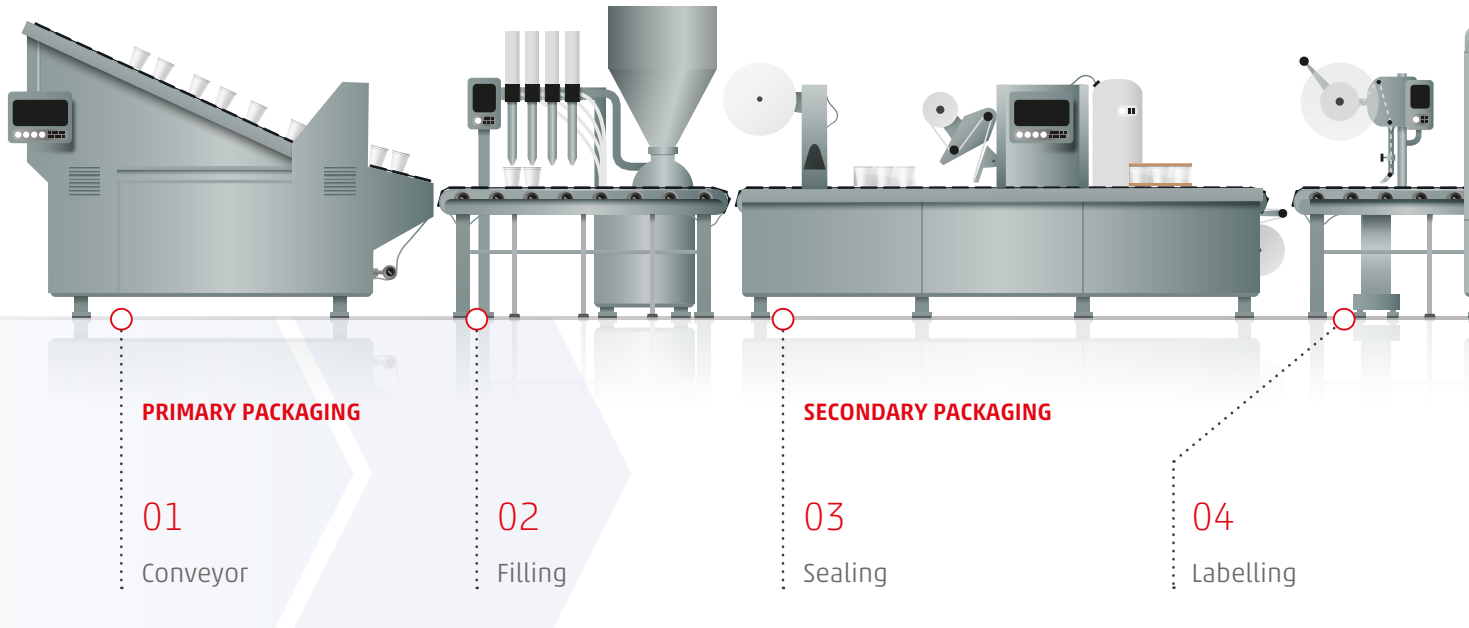
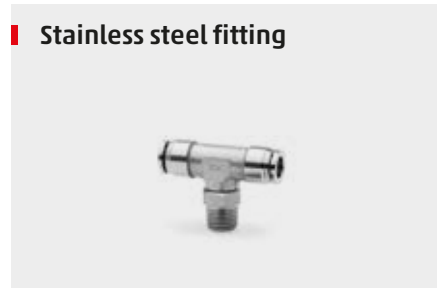
SOLUTIONS FOR TERTIARY PACKAGING

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.

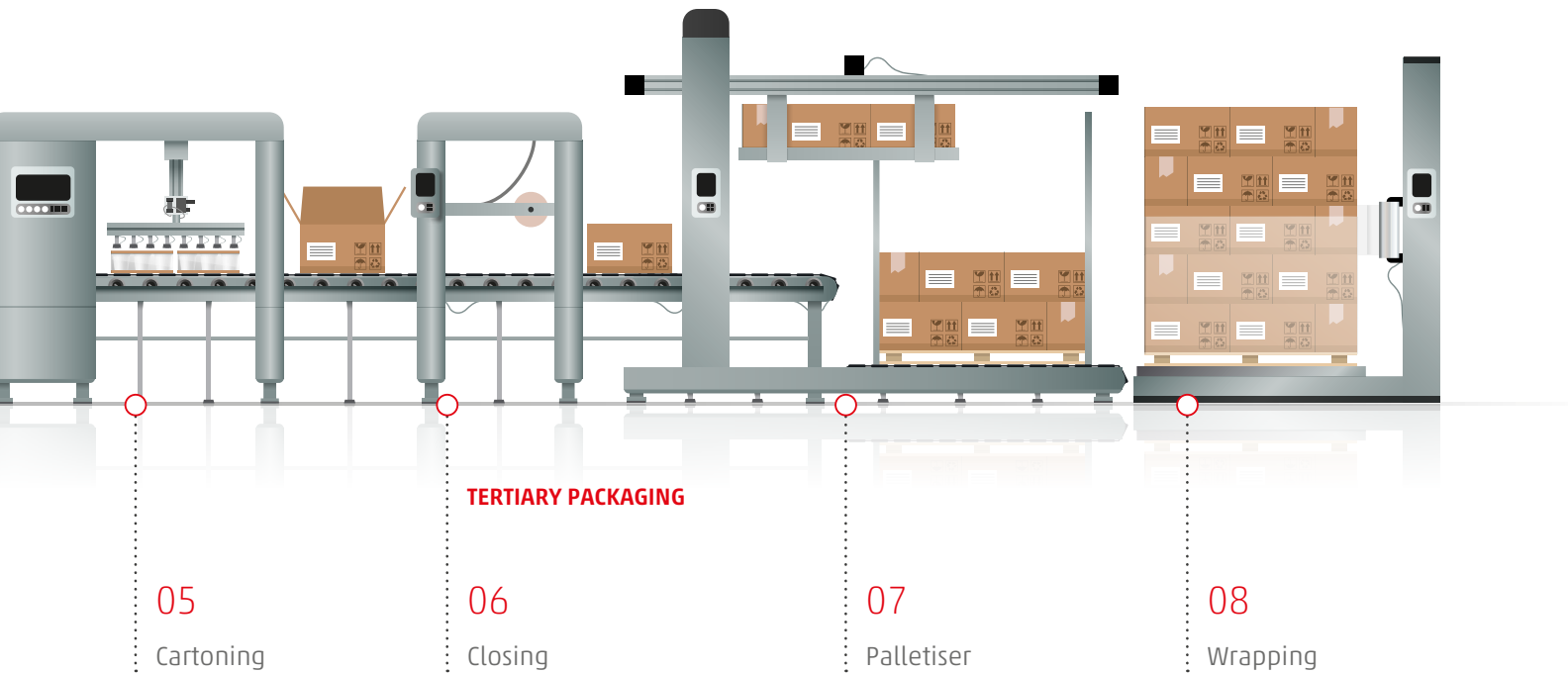
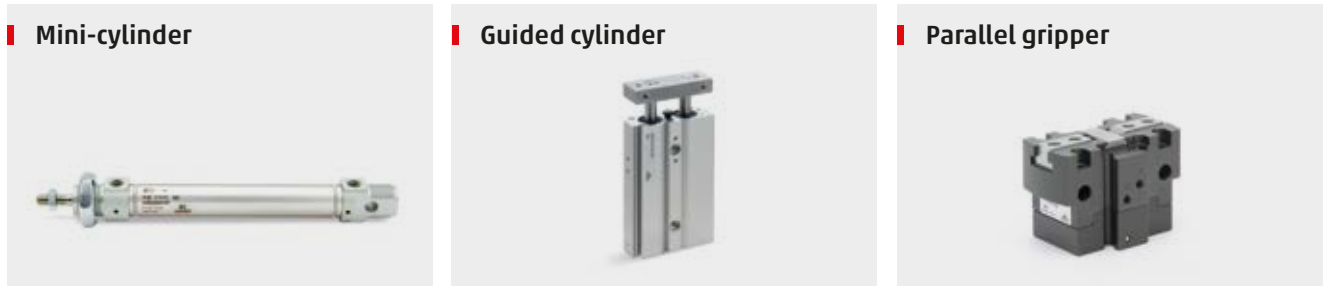
Packaging, as well as its fundamental role of **protecting the product through the production**, storage and transportation operations,



is 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.



TECHNOLOGIES FOR PRODUCTION EFFICIENCY



We analyse each **individual application** and provide solutions by selecting **the best performing technology**, be that pneumatic, electric or proportional options. This overall vision requires **extensive expertise** both in terms of the technical features of the technologies and products, and the functional characteristics of **the requested applications**.

Camozzi Automation's **competitive advantage** for customers lies in the ability to offer all these technologies and combine them where necessary, **optimising** the individual movements and performance required for each **industrial application**.

OUR TECHNOLOGY VISION

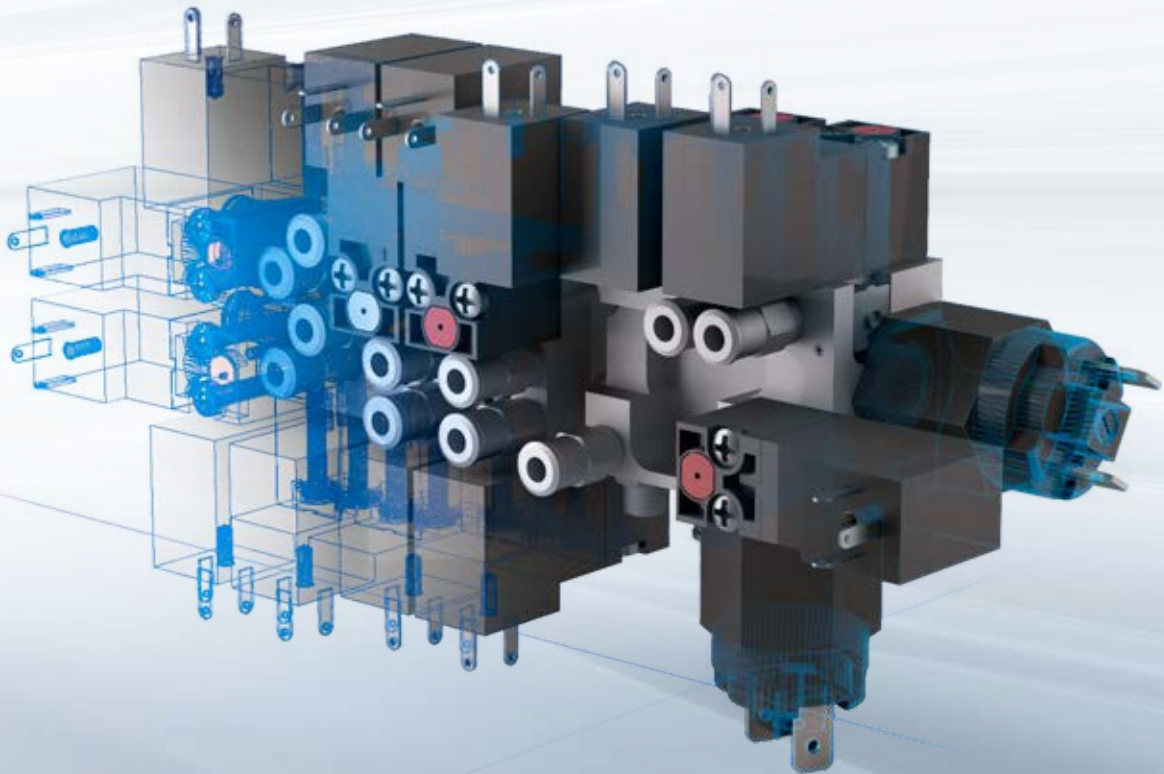


Systems and solutions with intelligent components, interconnected with data analysis algorithms



Safe energy-saving components and systems made using environmentally-friendly materials and processes

CUSTOMISED PLUG-IN PRODUCTS AND SOLUTIONS



Camozzi Automation offers a **wide range of standard and tailor-made solutions** with the aim of helping our partners improve the time-to-market, efficiency and reliability of their machines. Due to our experience, gained over many years, we can accompany customers from the **design of the solution** to its implementation, respecting any constraints, regulations, technical requirements and project times.

Miniaturisation and space reduction with a view to sustainability are other key objectives for implementation during production. The advanced design methodologies, such as **modelling, simulation and virtual reality**, adopted by Camozzi Automation enable us to combine leading mechanical and digital

technologies to develop components and systems capable of **increasing machine productivity and flexibility**, also allowing remote control for the purposes of **predictive maintenance** and production and energy consumption monitoring.

BENEFITS



Flexibility and productivity



Solutions for every application



Implementing system optimisation

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Automation

