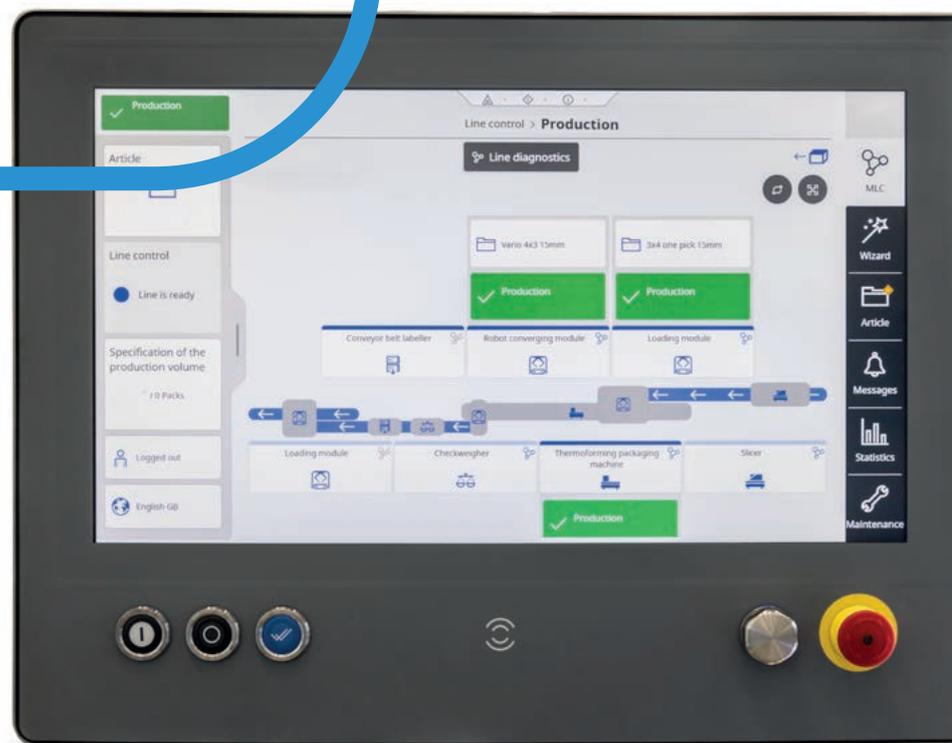




# MULTIVAC Line Control Simple. Central. Networked.



Central line control at each control terminal





# MLC

## **MULTIVAC Line Control** **Simple. Central. Networked.**

MULTIVAC Line Control (MLC) is an innovative and pioneering solution for controlling lines and optimising production. It simplifies operation and significantly increases the efficiency of the line.

Recurring operating processes, such as starting, stopping, standby, running the line empty and changing products become standardised and reproducible processes throughout the line thanks to MLC, and they can be performed from each control terminal within the line.

Using the constantly growing number of functions for line diagnostics, article management and batch handling, MULTIVAC Line Control makes an important contribution to the quality and reliability of the processes within the line, as well as the traceability of packs and products.

**MULTIVAC Line Control. Simple. Central. Networked.**



# Simple. Central. Networked. HMI Switch

## Complete line control at each control terminal

MULTIVAC Line Control enables each control terminal to become a complete operating interface for the entire line. Thanks to the HMI Switch function, each user interface (HMI) for a line module can be called up at each control terminal with just one click. The user can therefore operate quickly and immediately all the functions and control features of the entire line at each control terminal. If HMI Switch is used on the line, the number and position of the control terminals can be freely specified according to the particular requirement.



**Your benefits:**

- Number and position of control terminals in a line can be freely specified
- Highly effective operation based on actual need, when used with complex lines or those spanning separate rooms (hygiene area, low-risk area)



# Simple. Central. Networked. Starting and stopping

## Starting and stopping the entire line

Experience how simple it is to start and stop the whole line centrally from each MULTIVAC control terminal with just one click. Thanks to MULTIVAC Line Control, the Start and Stop keys automatically take effect throughout the entire line. This makes controlling the line significantly easier and more efficient.



**Your benefits:**

- Easier and faster operation due to shorter walking distances for operators
- Greater line availability
- Reduced energy consumption



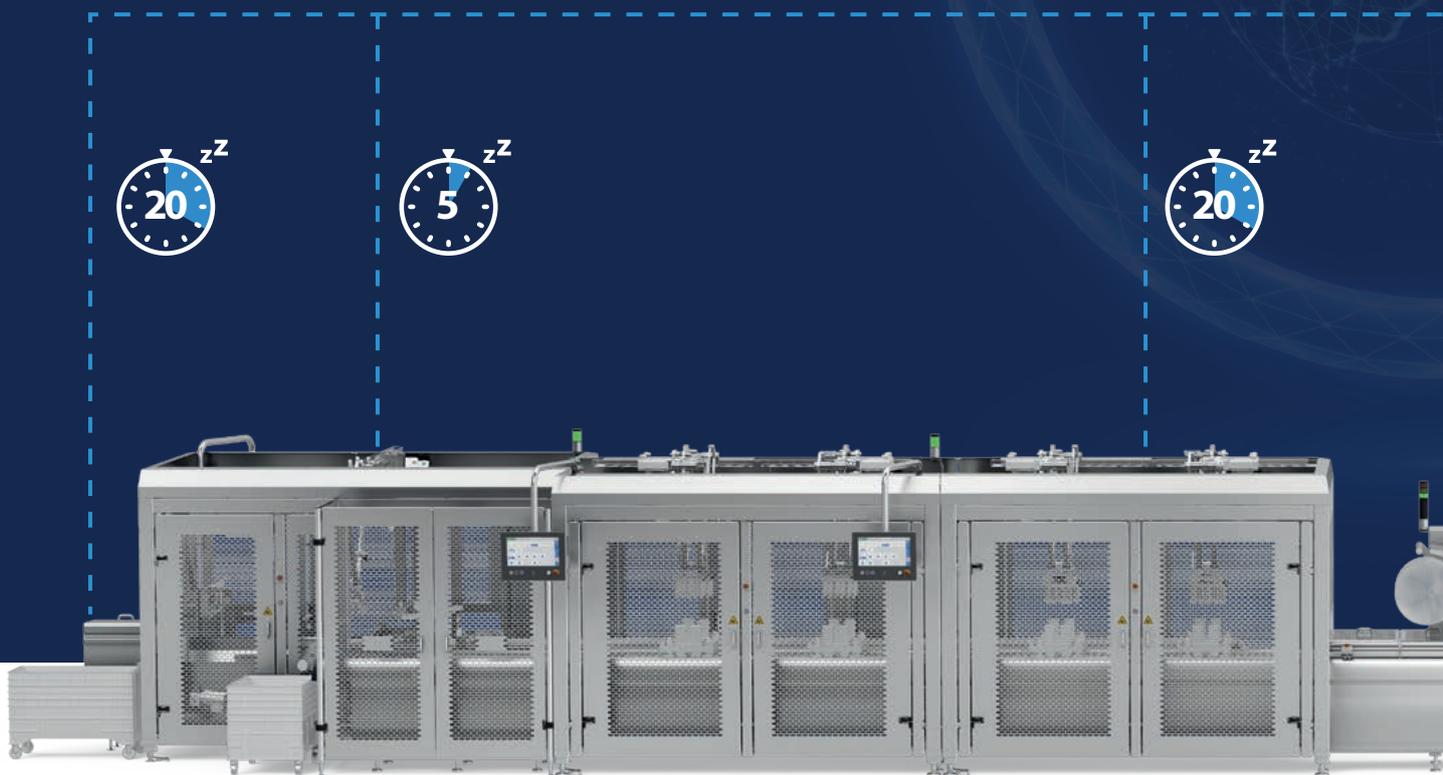
# Simple. Central. Networked.

## Energy-saving function

### Energy-saving made easy

The energy-saving function makes it possible to set the entire line centrally to stand-by mode, in a similar way to a time switch. During stand-by all the line modules minimise their energy consumption, and they only reactivate at the optimum moment to be ready to go at the right time. Even pauses in production contribute to resource efficiency, since they automatically save energy and working time, when the line is "put to sleep" and then "awakened".

Our customers think it is particularly effective, because it is practical and very easy to use. Break after break, shift for shift, day by day.



### Your benefits:

- **Less energy consumption**

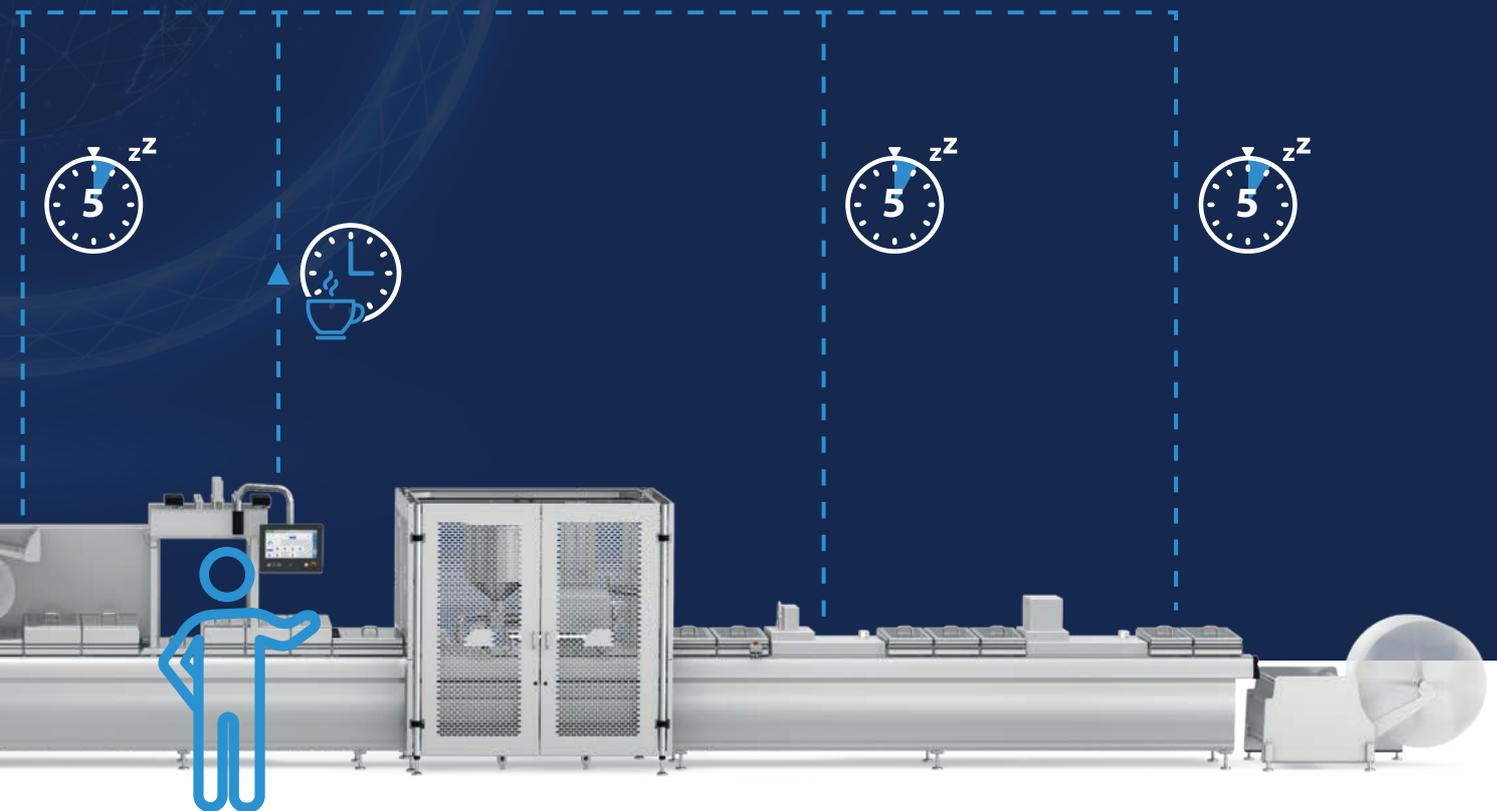
The energy consumption of the entire line is reduced in stand-by mode. This lowers energy costs and contributes to more sustainable production.

- **More flexibility**

Central control of the line enables production times to be adjusted easily and flexibly, particularly when requirements change at short notice.

- **Longer lifespan**

The reduced energy consumption and lower load on the machine in stand-by mode can reduce the time spent on maintenance and extend the lifespan of the machine.



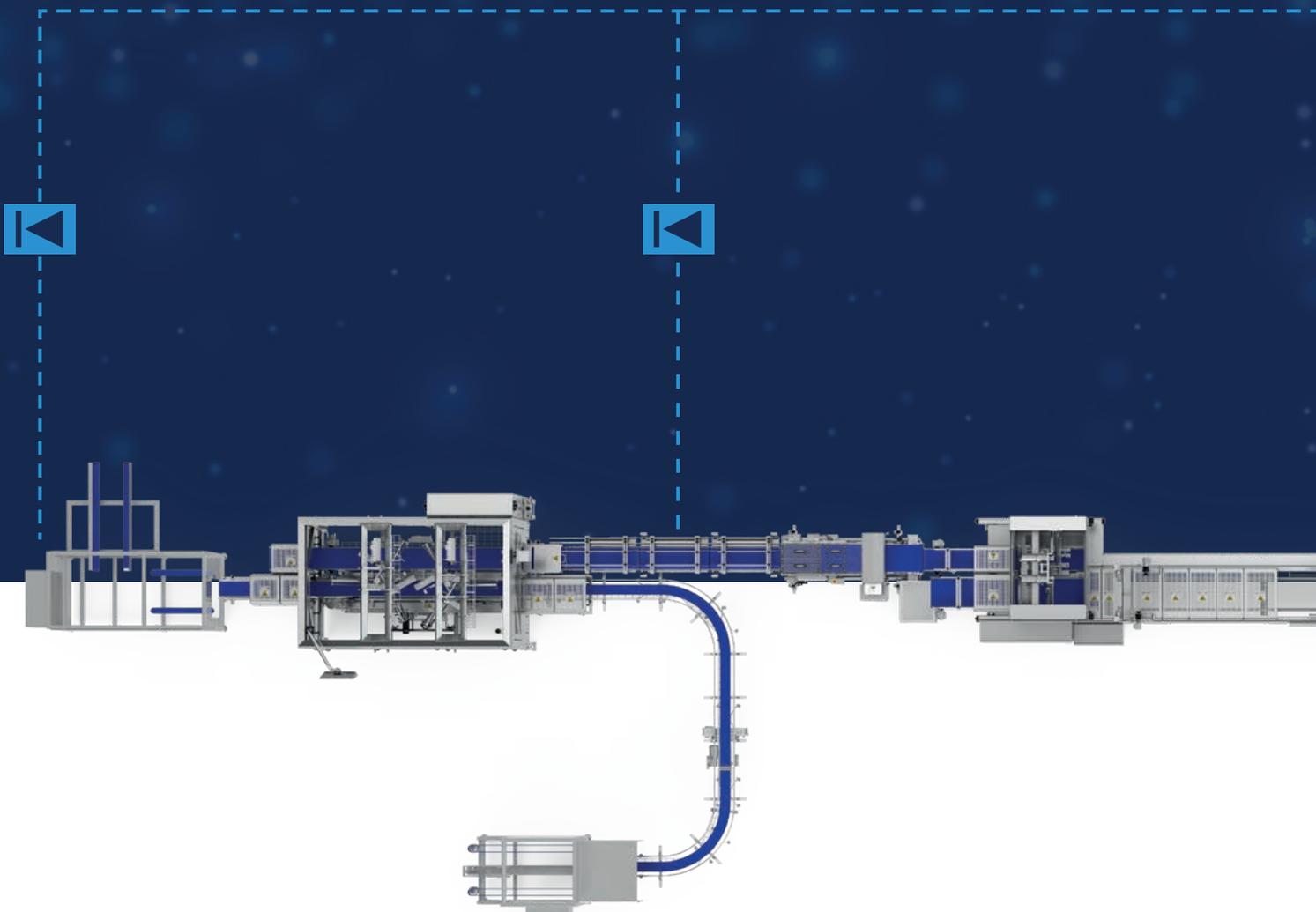
# Simple. Central. Networked.

## Running the line empty

### Running the entire line empty with just one click

Thanks to MULTIVAC Line Control, it is possible to automatically run an entire line empty at any time and from any control terminal (HMI). The products and packs, which are currently in the line, are run out in a controlled manner, and they pass through the remaining process stages. Running the line empty becomes a controlled and reliable process with MLC.

This function involves less time spent on the line and shorter distances for operators, and it facilitates the efficient preparation for product changes or planned production stoppages.



### Your benefits:

- **Greater efficiency**

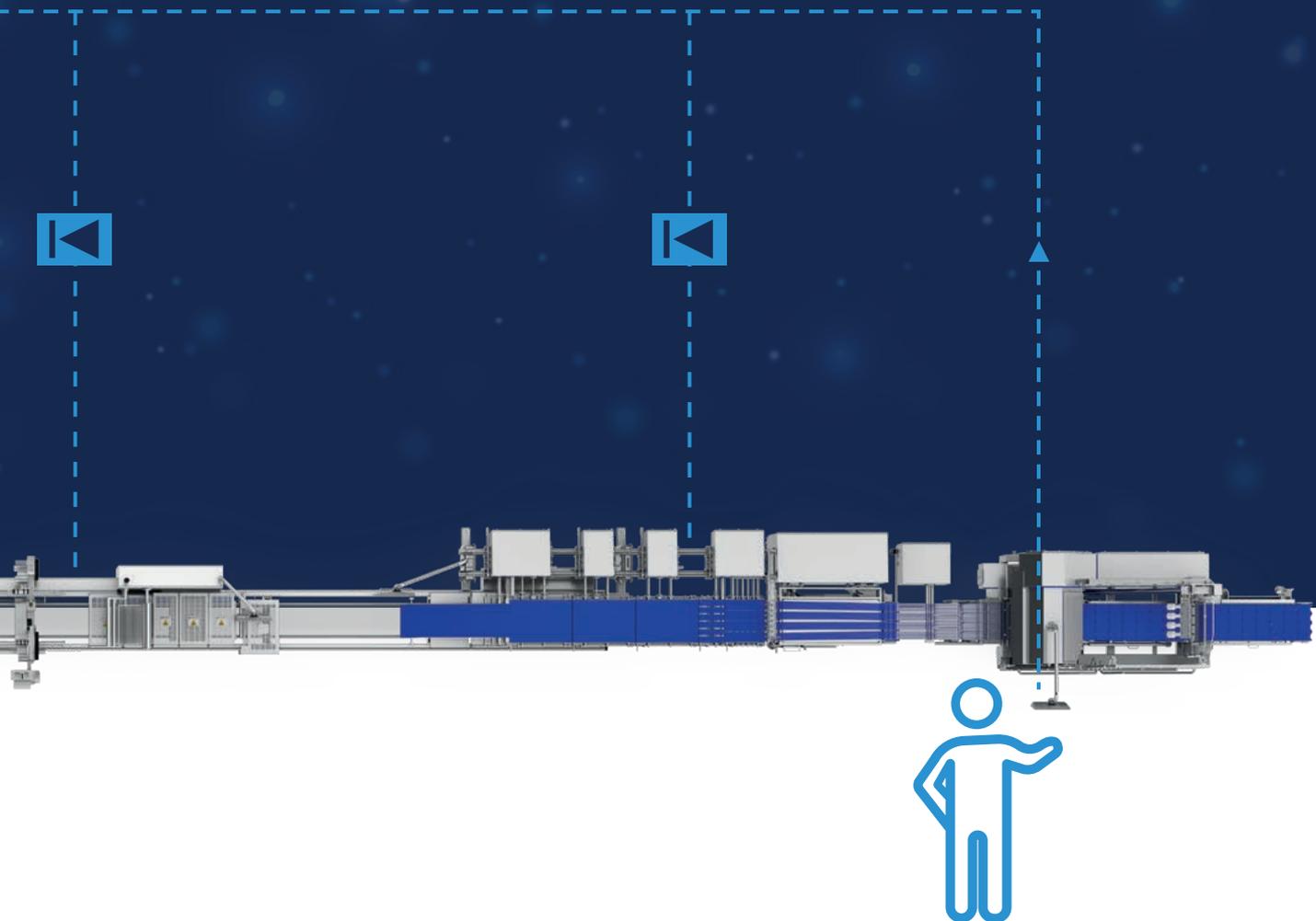
The products and packs, which are currently in the line, pass completely through the remaining process stages

- **More operating reliability**

The controlled process makes running the machine empty particularly easy, reliable and faultless

- **More meaningful database**

The processes, which are controlled via the MLC functions, provide more meaningful production statistics and a better basis for optimising the efficiency of the line

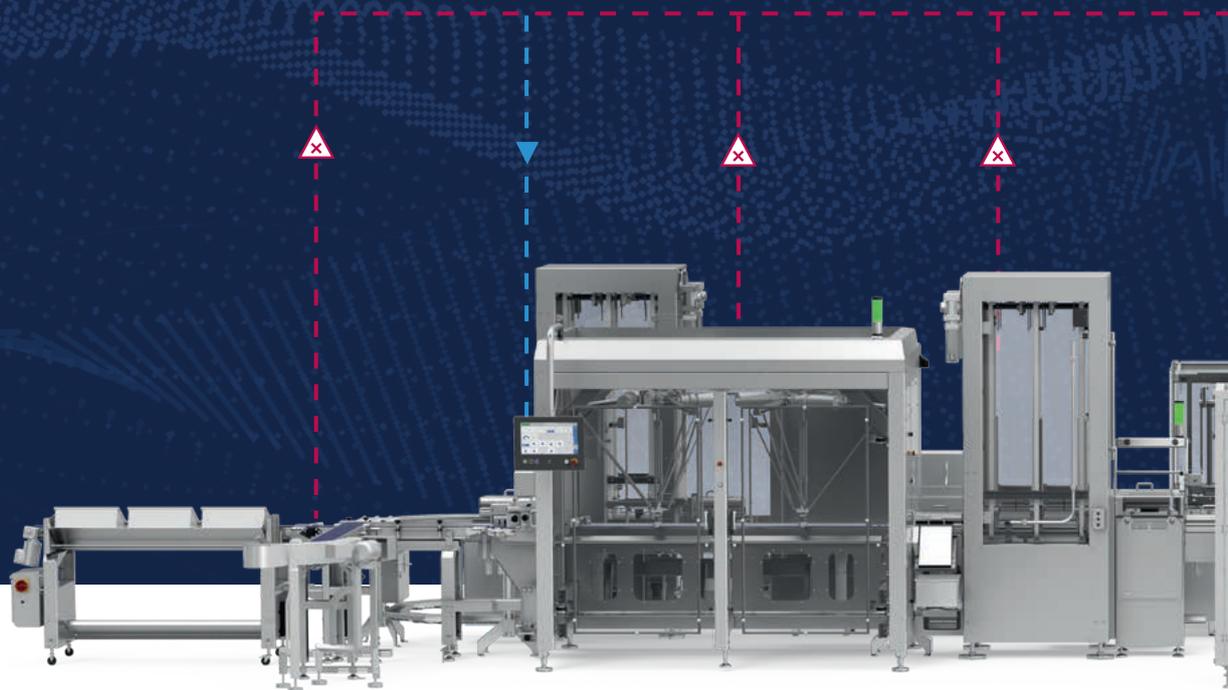


# Simple. Central. Networked.

## Line diagnostics

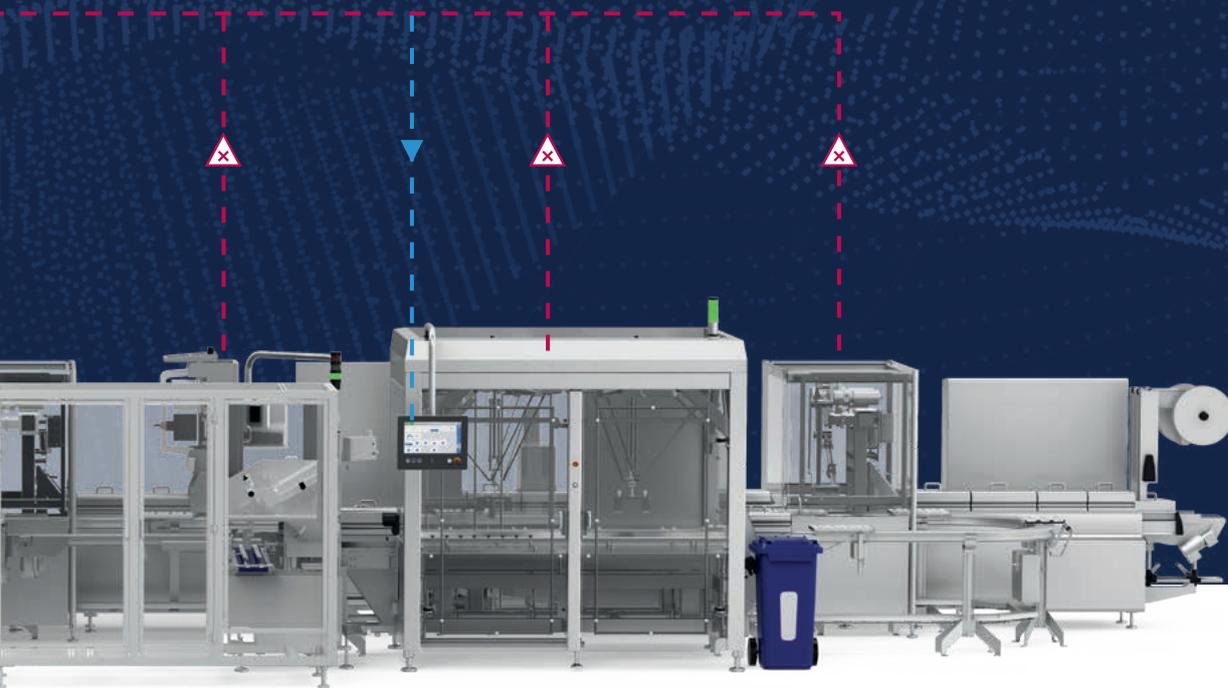
### Efficient line diagnostics at each control terminal.

MULTIVAC Line Control enables messages, which occur anywhere on the line, to be displayed automatically on all the control terminals. The operator can therefore quickly see and easily identify all the occurrences on the line from any control terminal, and he can then localise these effectively and react accordingly. Line diagnostics is a valuable tool, particularly with unplanned stoppages of the line due to "invisible" causes, such as the triggering of safety circuits or control sensors.



**Your benefits:**

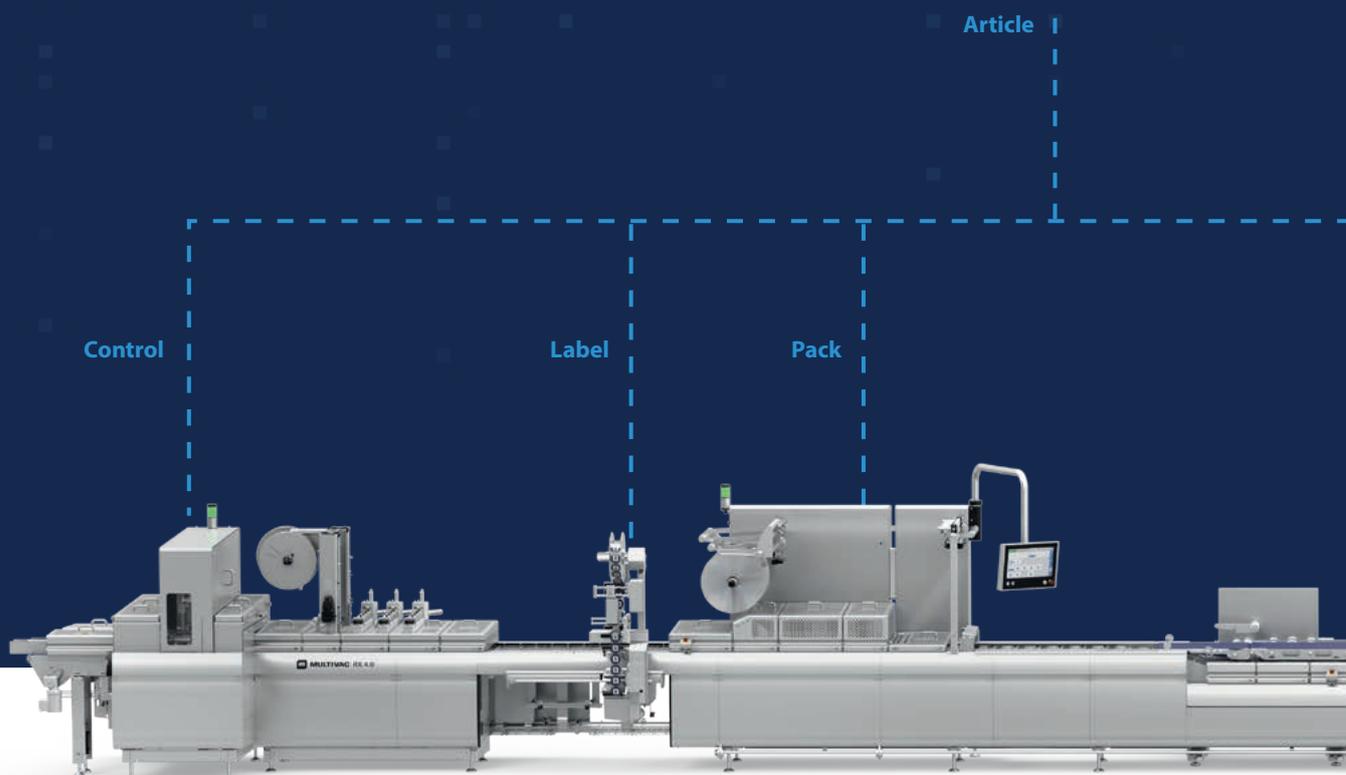
- Quick and easy elimination of typical line faults at any terminal
- Less time involved for operators
- Greater availability of the line



# Simple. Central. Networked. Article Management

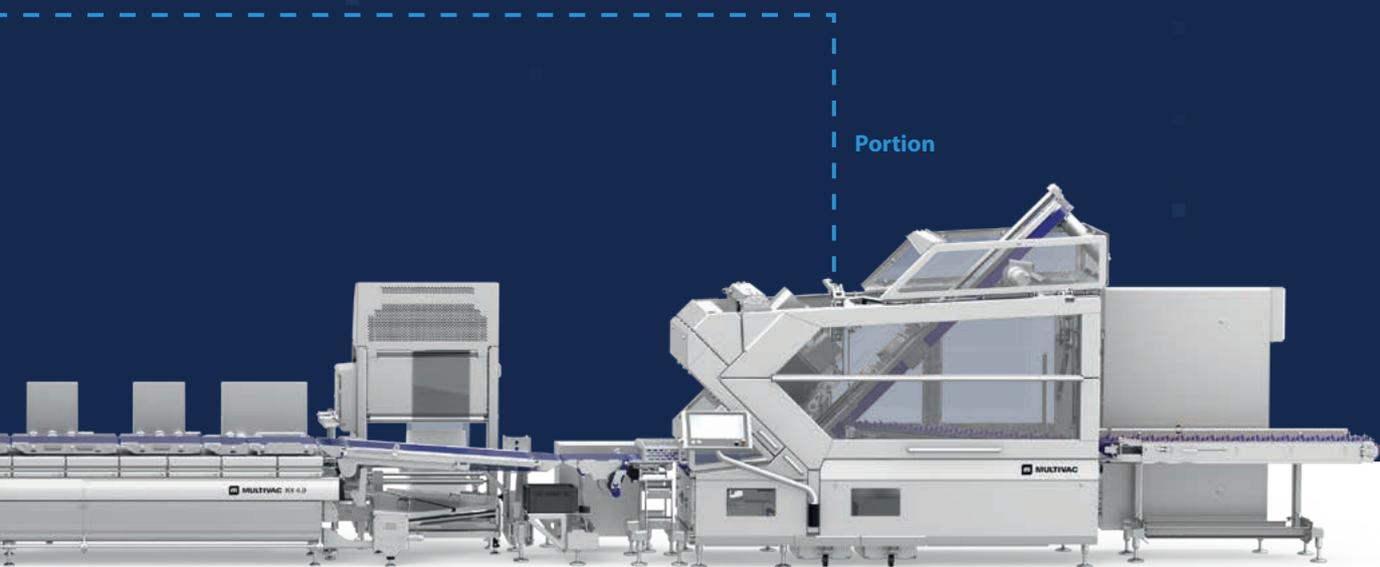
## Article management for the entire line

MULTIVAC Line Control enables the configurations of the individual modules in the line to be linked together as one "product article". If the operator selects an article at line level, all the line modules automatically set themselves correctly to this particular article. If manual set-up procedures are required, the line stops and displays these. This means that changing products becomes a transparent and reliable process, which significantly reduces the need for technical knowledge on the line.



**Your benefits:**

- Ensures that the correct article is called up at each line module
- A guided process, if manual settings are required
- Reduction in time spent and operating errors



# Simple. Central. Networked.

## Specifying the production quantity

### Automatically producing the correct quantity

Do you operate in your Production department with specified batch sizes and target quantities? If so, MULTIVAC Line Control can support operators effectively by stopping the line automatically, when the target quantity is reached. The operator is able to decide flexibly according to the particular requirement, how many units are to be counted and at which position in the line, such as for example portions at the slicer, packs at the packaging machine, packs after the checkweigher, or boxes at the end-of-line boxing unit. The MLC stops the line as soon as the specified quantity has been produced.



### Your benefits:

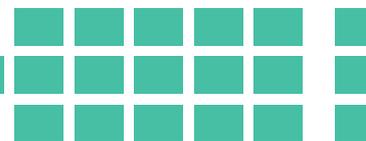
- The automatic Stop function saves time, since the operator does not constantly have to keep an eye on the production quantity
- Resources such as products, packaging materials, labels and energy are used to their optimum
- Staff members are employed more efficiently



# Simple. Central. Networked. Article changeover on the fly

## Automatic product change without stopping production

Discover the unique feature of article changeover on the fly, as only the MULTIVAC Line Control can offer. If a new article is loaded via "Article management", the line sets itself to the new article "on the run" – automatically and at the optimum time, cycle for cycle and module for module. And without any appreciable interruption of line operation, since all the line modules behave in a manner that is as time-saving and resource-sparing as possible. Benefit from even greater efficiency and easier operation thanks to this innovative MLC function.



Article 1

Article 2

### Your benefits:

- **High level of flexibility**

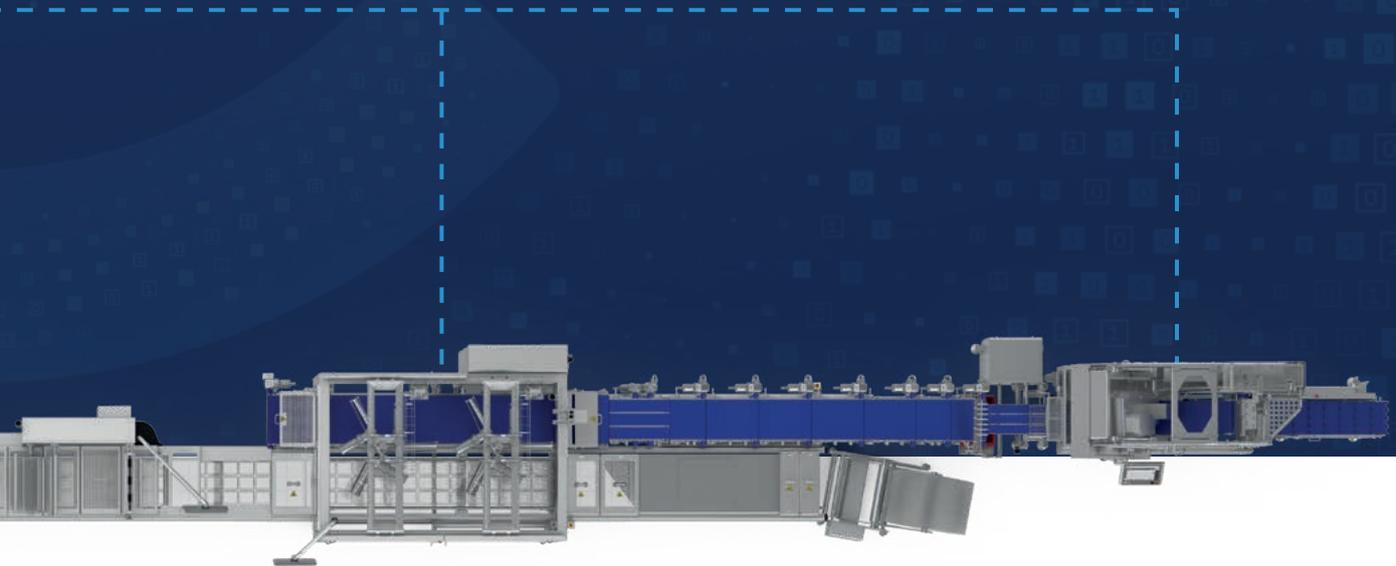
Article changeover on the fly during line operation makes it easier and more cost-effective to produce smaller batches flexibly.

- **Efficient production**

Thanks to article changeover on the fly, it is not necessary to run the entire line empty. This reduces downtime and the consumption of film and labels.

- **More operating reliability**

A new product is loaded automatically to all line modules at the optimum time. Easily understood messages on the HMI guide the user reliably through the process.





# Simple. Central. Networked.

## Batch handling for food

### **Reliable traceability of food products.**

In the food industry the safety and quality of products have the highest priority. Here MULTIVAC Line Control batch handling makes a crucial contribution to fulfilling the highest quality standards, and ensuring that seamless traceability is maintained – for every pack along the production line from the unprocessed product to the finished pack.

### **Seamless traceability**

Thanks to efficient batch handling, all the production stages from raw material procurement to processing and packaging can be documented seamlessly. This transparency makes it possible for you to meet the demands of the many different product origin and information systems used by your customers. And you can also react more quickly and specifically, should a quality problem arise. Batches that are actually affected can be clearly identified, and you can then act in accordance with the regulations to restore consumer safety.

### **Consistent product quality**

By carefully monitoring and managing each batch, you can ensure that every pack of food meets the same quality standards. Any discrepancies can be detected immediately and corrected. This ensures that all the products leaving your Production department are of a consistent quality and safe for the consumer.

### **Efficient packaging processes**

Structured batch handling can optimise the entire production chain. It makes planning easier, improves the use of resources, and minimises production waste. Packaging processes can be run at the optimum level, and efficiency increased as well as costs reduced.

### **Complying with legal regulations**

The food industry is strictly regulated, and it is essential to comply with the legal standards. Comprehensive batch management ensures that all the necessary documentation is present and correct, and that all the statutory requirements have been met. This protects your company against legal action, and it safeguards the loyalty of your business partners and customers.

### **Strengthening customer trust and your brand reputation**

Consumers expect transparency and safety with their food. Seamless batch management shows your customers, that you observe the highest standards and do everything possible to maintain the quality and safety of your products. This strengthens trust in your brand and promotes customer loyalty.





# Simple. Central. Networked.

## Batch handling for medical and pharmaceutical products

### **Focus on patient safety**

Patient safety has the highest priority with medical and pharmaceutical products. Batch handling with MULTIVAC Line Control makes a significant contribution to transparent and secure processes, as well as for tracing products and packs.

### **Traceability and transparency**

Thanks to precise batch management, each individual product can be documented seamlessly from manufacture right up to use. This traceability makes it possible for example to identify the affected products quickly and precisely, if a quality problem arises, and then to act in accordance with the regulations.

### **Consistent quality**

Batch handling makes a major contribution to ensuring, that every product meets your high quality standards. By monitoring and documenting each batch, any discrepancies can be detected immediately and corrected. This supports our customers in ensuring, that their medical and pharmaceutical products meet the strict regulatory requirements and are safe for the patient.

### **Efficient packaging processes**

Batch management, which is implemented across the board, makes planning and the use of resources highly effective, and it minimises production waste as well as reducing downtime. Packaging processes can be run at the optimum level, and efficiency increased as well as costs reduced.

### **Regulatory requirements**

The manufacture of medical and pharmaceutical products is subject worldwide to particularly strict legal regulations. Comprehensive batch management makes a major contribution to ensuring, that the necessary documentation is present and correct, and that all the statutory requirements have been met.

