



## Cartoner C 200

Contact Person, position  
Place and date

# Cartoner C 200

1

**Concept**

2

Details

3

Technichal Data

4

SmartControl

5

Track & Trace by Uhlmann

6

Uhlmann Customer Services

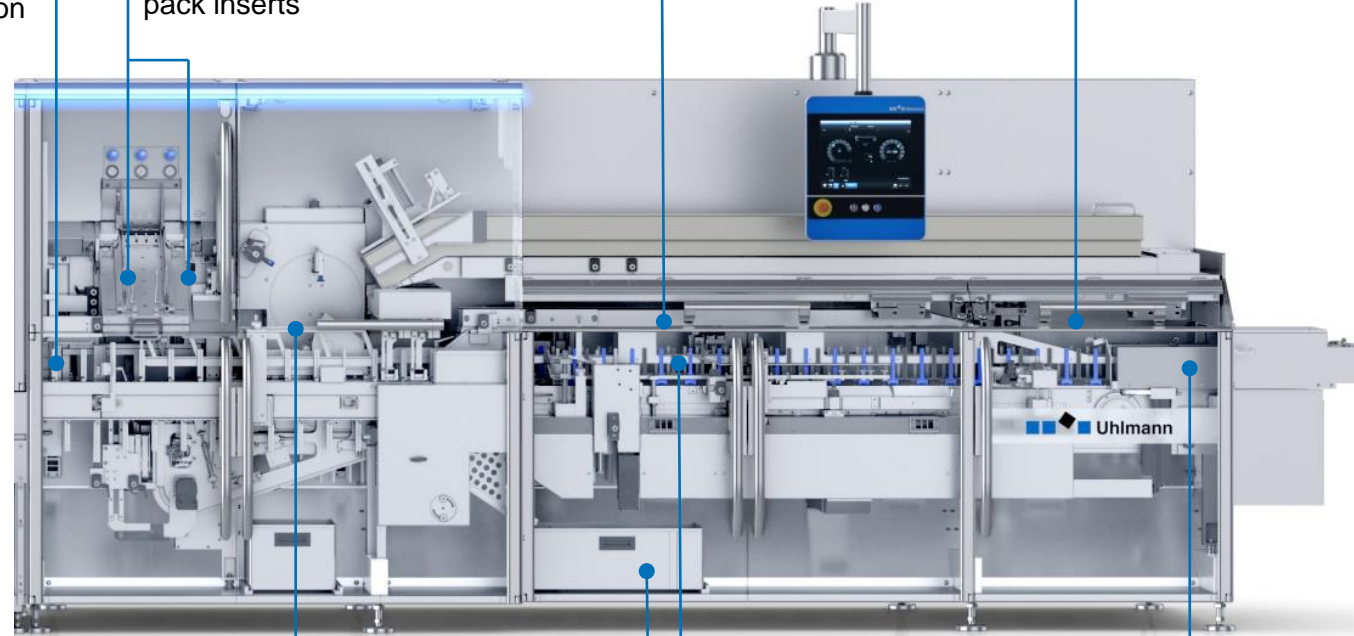
# Concept

**Horizontal product transport**  
For all kind of product presentation

**Insertion of diverse product information**  
leaflets, booklets, other pack inserts

**Embossing**  
Can be applied besides printing

**Track & Trace integrated**  
printing and inspection systems for every application



**Code reader**  
ensure correct 1D and 2D codes of carton and product information

**Gentle removal**  
of blister stacks

**Dual performance for added output**  
doubles the output of small cartons

**Integrate able hot-melt**  
provides cost efficient tamper evident solution

# Maximum production flexibility

FLEXIBLE – Thanks to the huge format range there are manifold application areas

CUSTOMIZED – Feeding options for special applications, e.g., bottle feeding system, robotized transfer system for various products in combination with a blister machine, etc.

MODULAR – Flexible extension of the product transport enables the integration of different product information or supplement feeding systems and also manual feeding of products

EFFECTIVE – Efficient utilization of the format area by dividing the pitch in 2 parts (during a format changeover) which increases the speed up to 200 cartons per minute ( $A \leq 85$  mm)

# Stable and gentle process

RELIABLE – Consistent process times at different machine speeds due to single servo drives

GENTLE – Customized feeding systems for the careful handling of a variety of liquid dose products

100% GOOD PRODUCT PHILOSOPHY is a matter of course

PATIENT – Event-triggered operation ensures that product provisioning has been completed before the process starts

# Cost-effective and proficient

**FAST AND SIMPLE LINE CLEARANCE** – GMP-compliant machine design permits good visibility and easy cleaning; use of high-quality materials (genuine glass, stainless steel components)

**USER-FRIENDLY** – Software-controlled processes; small, lightweight format parts; easy manual adjustment; changeovers with only a very few format parts

**SPACE-SAVING** – Compact machine with big carton magazine (up to 2000 cartons)

# Cartoner C 200

1 Concept

**2 Details**

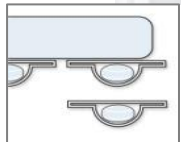
3 Technical Data

4 SmartControl

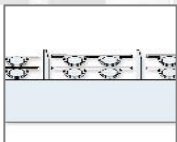
5 Track & Trace by Uhlmann

6 Uhlmann Customer Services

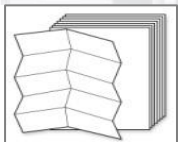
# Cartoner C 200



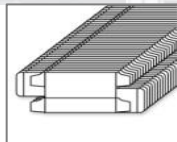
Product infeed



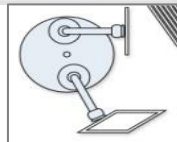
Product transport



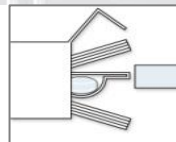
Leaflet folder



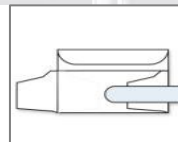
Carton magazine



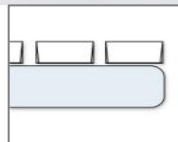
Carton feeder



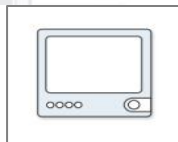
Product loading



Closing station



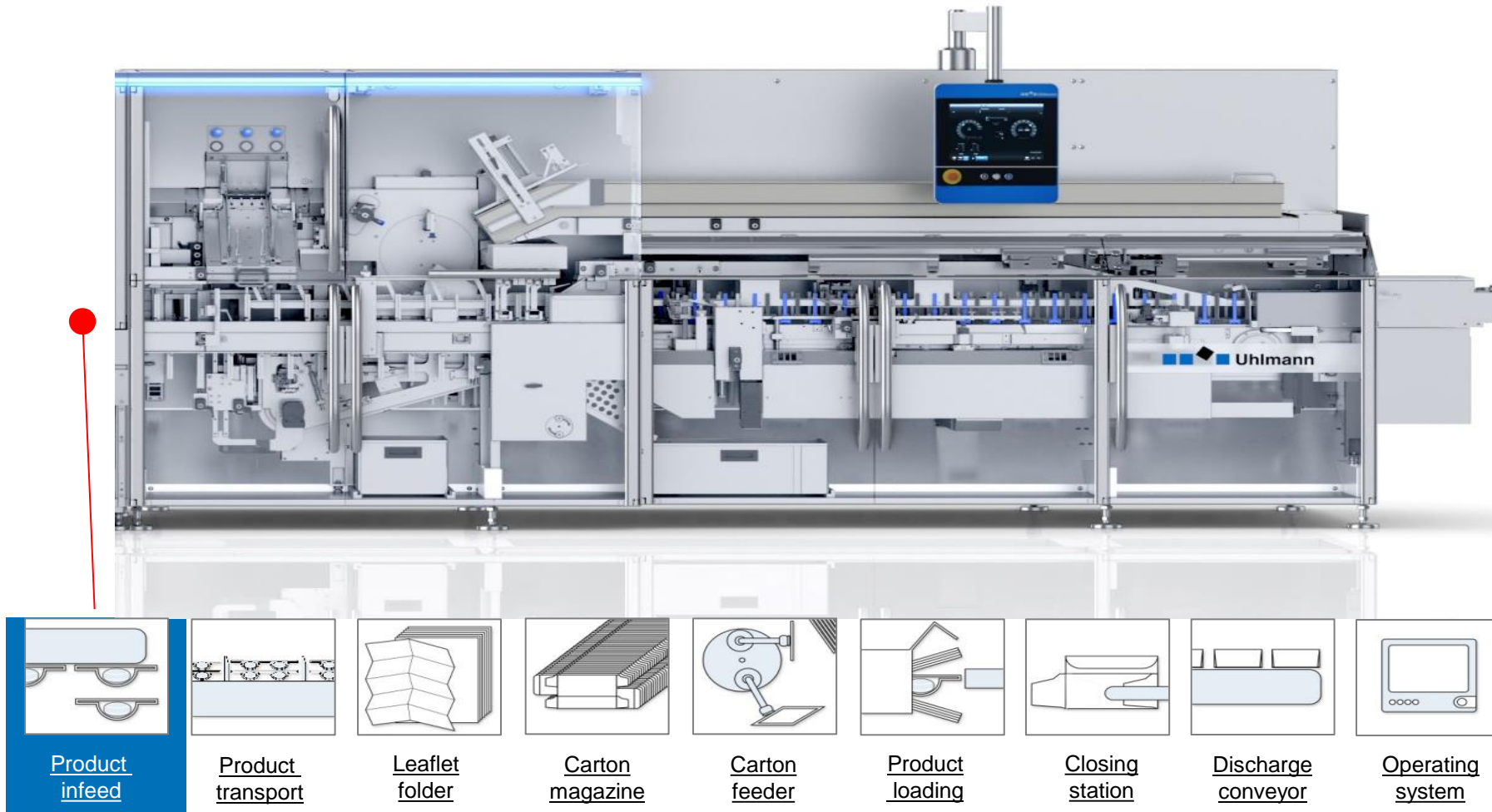
Discharge conveyor



Operating system



# Cartoner C 200



# Product infeed

Diverse feeding systems for universal and reliable packaging:

- **Feeding system for blisters** – reliable blister stacking using plug-in blister magazines: efficient for blisters with solid dose products and sealed ampoule blisters
- **Feeding system for wallets and pillow packs** – using a special conveyor for all rectangular products that cannot be stacked



# Product infeed

Diverse feeding systems for universal and reliable packaging:

- **Feeding system for bottles, vials, and ampoules** – for round, rectangular, or oval shapes using a feed screw
- **Feeding system for unsealed ampoule and syringe blisters** – synchronized blister loading into the product chain
- **Feeding and robot systems** – for spoons, pipettes, pens, pillow packs, and other pharmaceutical devices



# Product infeed

Diverse feeding systems for universal and reliable packaging:

- **Rotary booklet feeder** – for the reliable handling of folded or glued booklets
- **Slide feeder** – for the optimum handling of multilayer, glued booklets



# Direct blister transfer (part of the blister machine)

in combination with BLU 200 only

- Space-saving: Compact, direct, blister transfer integrated into the product transport of the cartoner
- Efficient:
  - If needed, the blisters can be rotated
  - Rejection of single blisters
- Gentle: Low drop into the collecting container for partially filled blisters
- Flexible:
  - Conveyor transfer to other systems (optional)
  - IPC blister removal (optional)



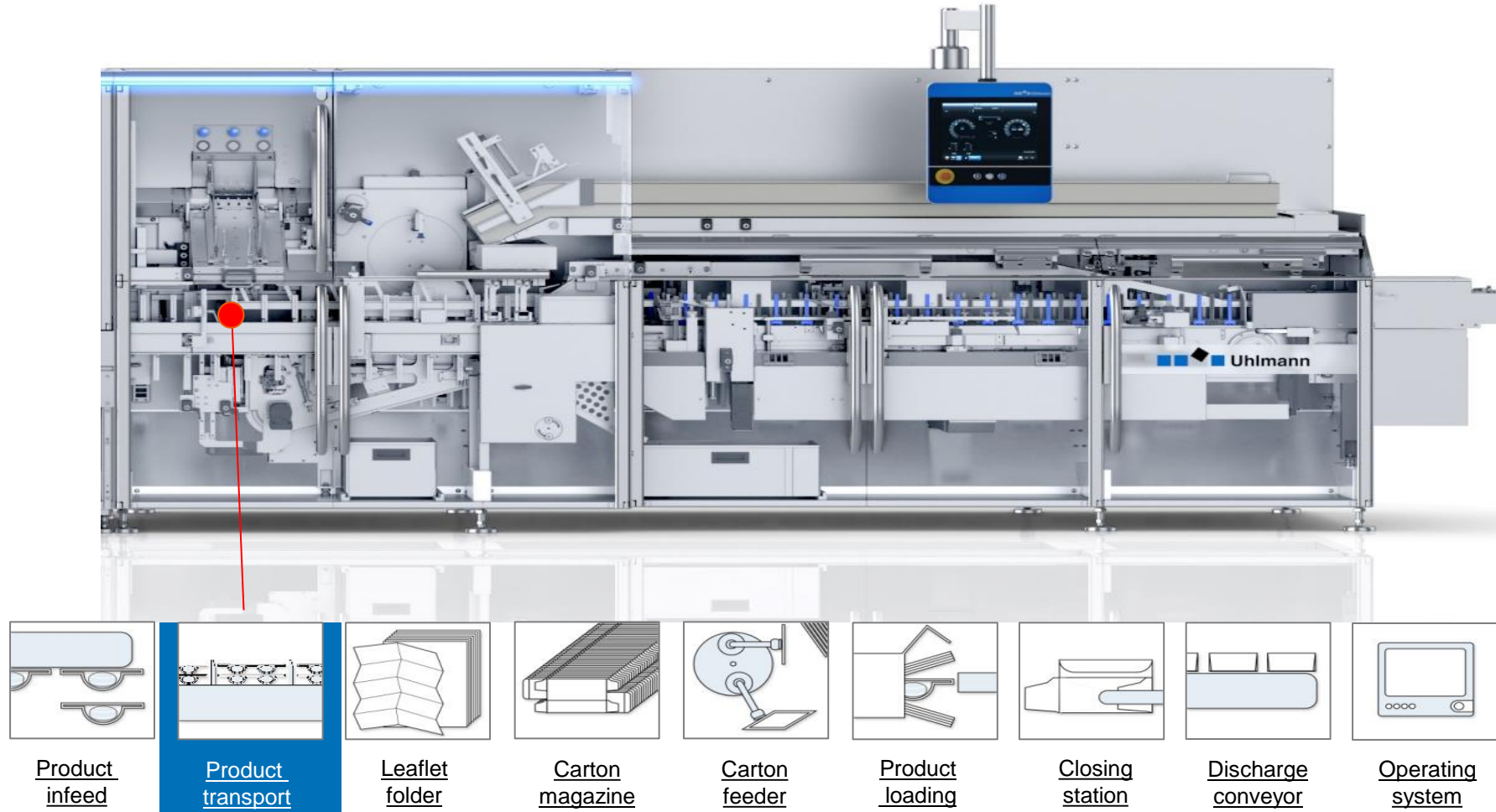
# Direct blister transfer (part of the blister machine)

in combination with BLU 200 only

- User-friendly:
  - Easy adjustment to a new blister format
  - Fast replacement of container for partially filled blisters, large container for empty blisters
- 100% good product philosophy:
  - Direct transfer of sealed and unsealed blisters; removal of single blisters; only perfect blisters move downstream
  - Rejected blisters are sorted between empty or partially filled; only complete blister stacks are transferred



# Cartoner C 200



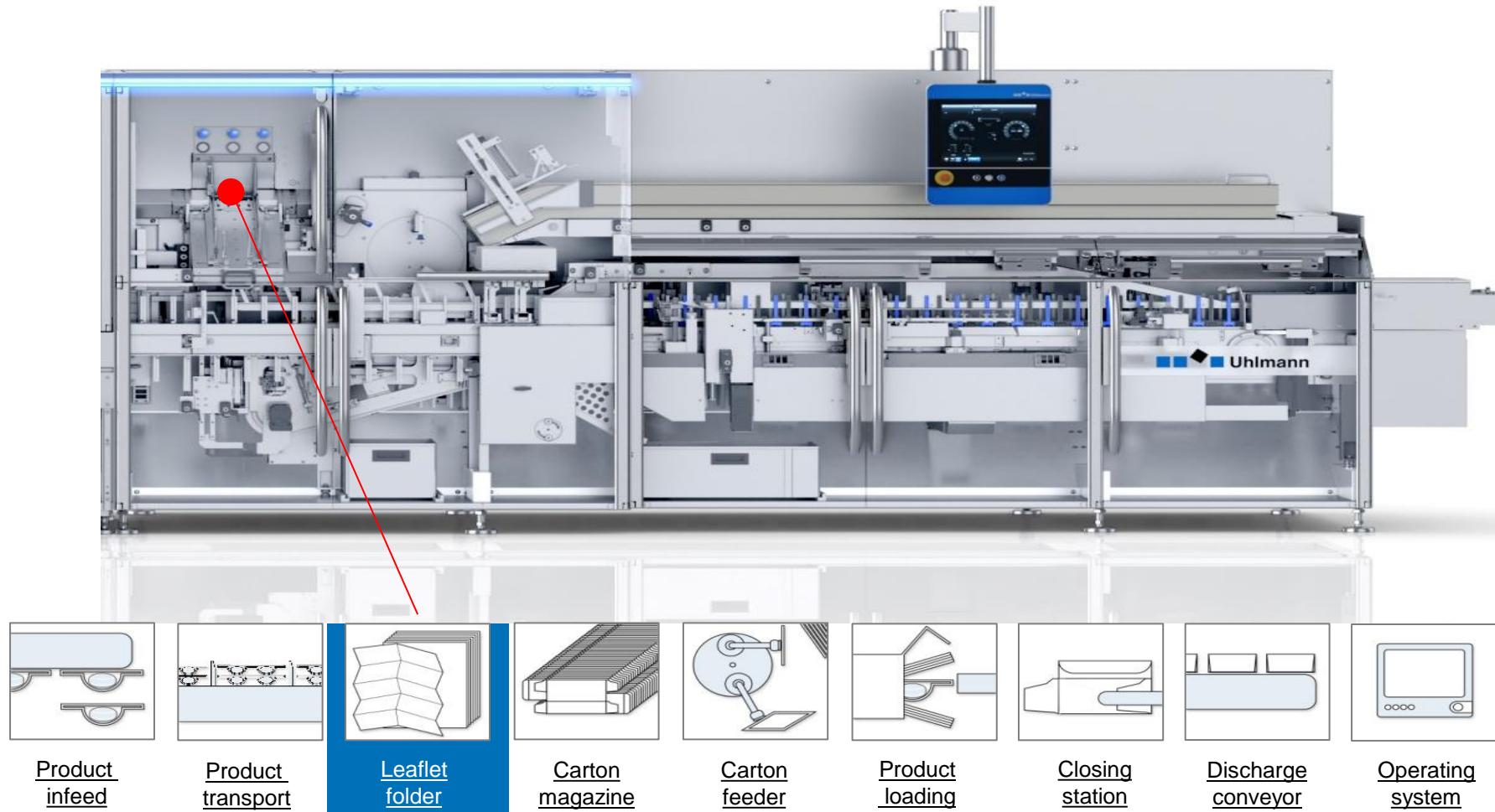
# Product transport

- Efficient: Output upgrade to 200 cartons per minute by halving the pitch from 200 to 100 mm (for cartons up to 85 mm wide)
- User-friendly: Uncomplicated pitch changeover using easily installed cell dividers
- 100% good product philosophy: Only complete blister stacks are transported; without blister stack magazine; minimizes rejects, damage, miscounting
- Gentle: Redundant magazine for manual feeding, direct and guided





# Cartoner C 200

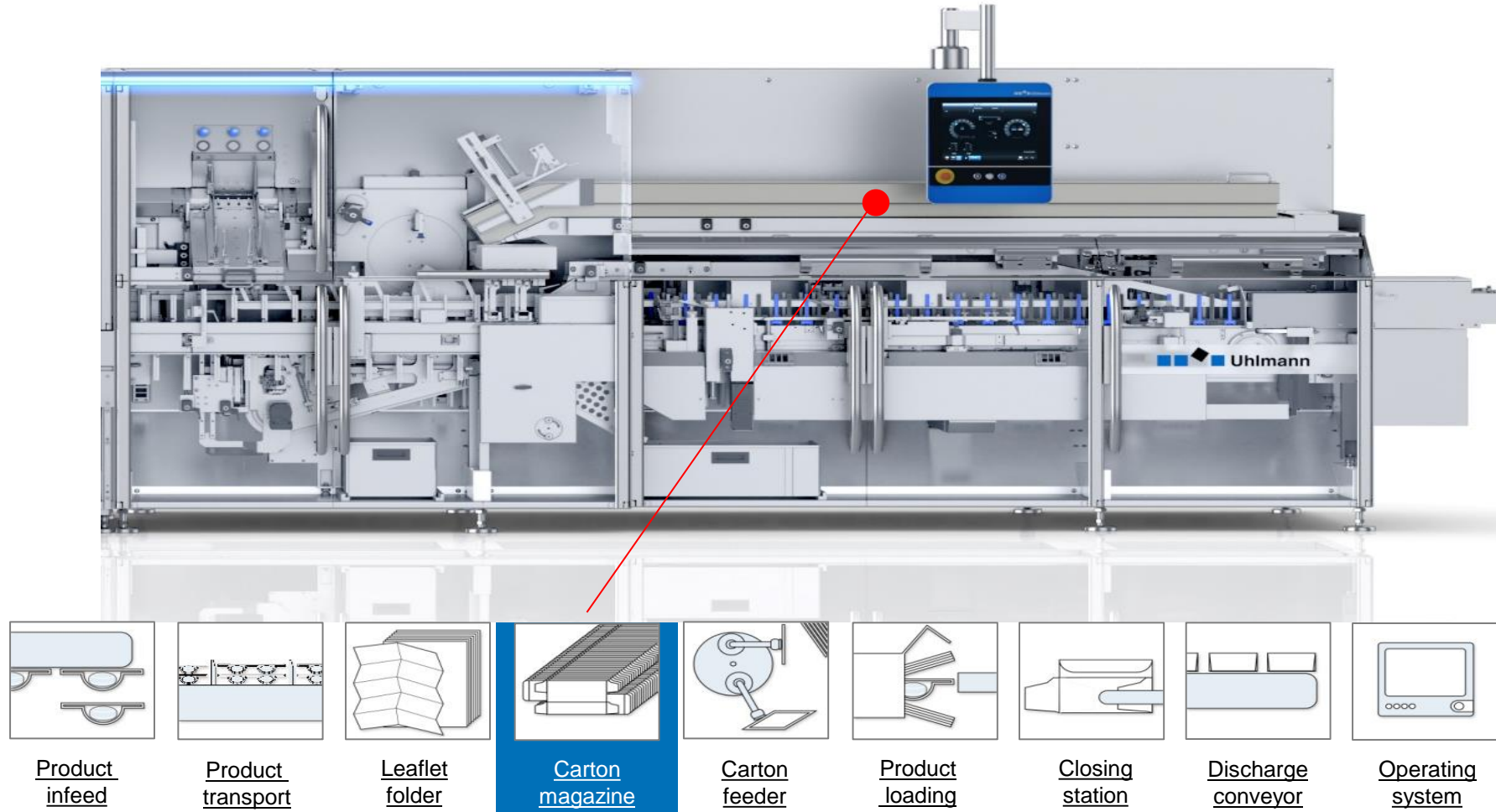


# Leaflet folder and feeder

- User-friendly:
  - Fast and easy loading from the operating side
  - Tilting mechanism for better access to the leaflet clip chain
- Flexible:
  - Rotation feeder for booklets (optional)
  - Friction feeder with product transport extension (optional)



# Cartoner C 200

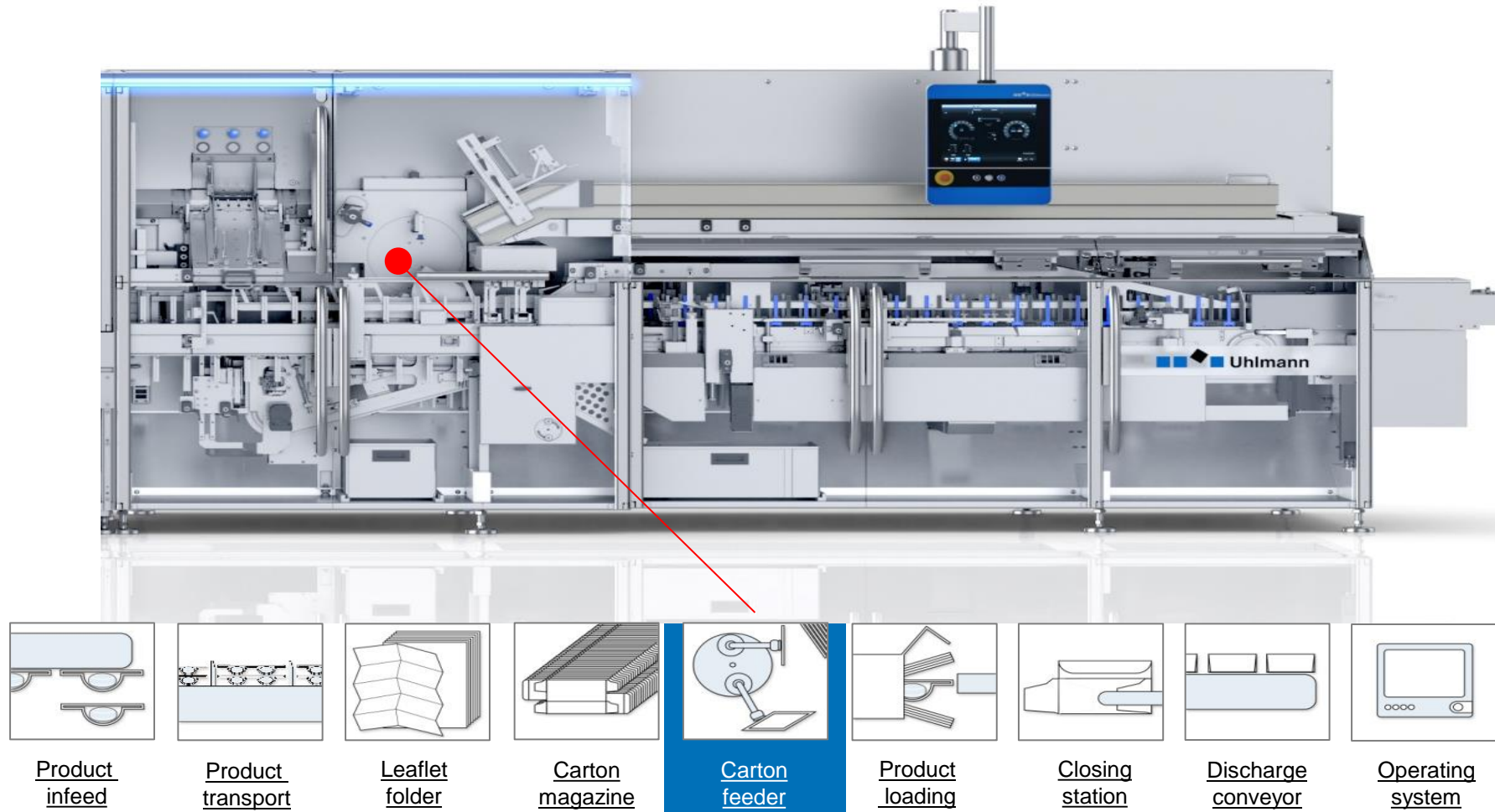


# Carton magazine

- User-friendly:
  - Ergonomic working height for easy carton loading
  - Raising of the carton magazine to a height of 1.6 m for optimum access to all stations



# Cartoner C 200

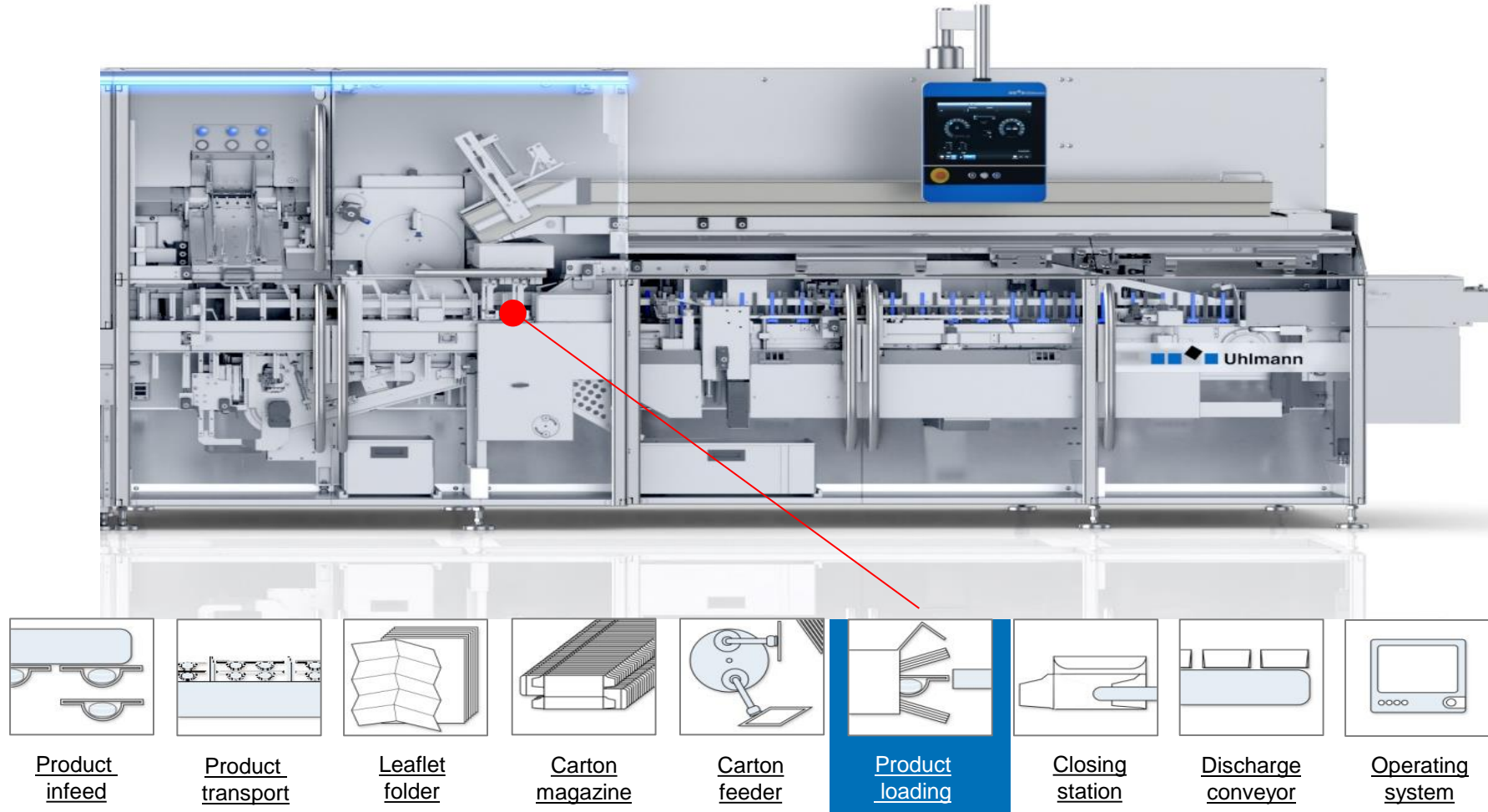


# Carton feeder

- Flexible: Counter vacuum suction cups that actively open up the cartons enable the handling of various carton qualities
- 100% good product philosophy:
  - Rotary carton pick-off using vacuum suction cups
  - Integrated vacuum generation based on the quiet and efficient Venturi principle
- Efficient: Added output with dual carton pick-off (optional)



# Cartoner C 200



# Product loading

- Efficient: Double product loading for increased output using a dual loader (optional)
- Gentle:
  - Pre-loading of leaflets reduces impact on blisters
  - Only individual stacks are removed
- User-friendly: Format parts exchanged within a few seconds
- Flexible: Discharge of blister stack to operator side enable bulk production (optional)



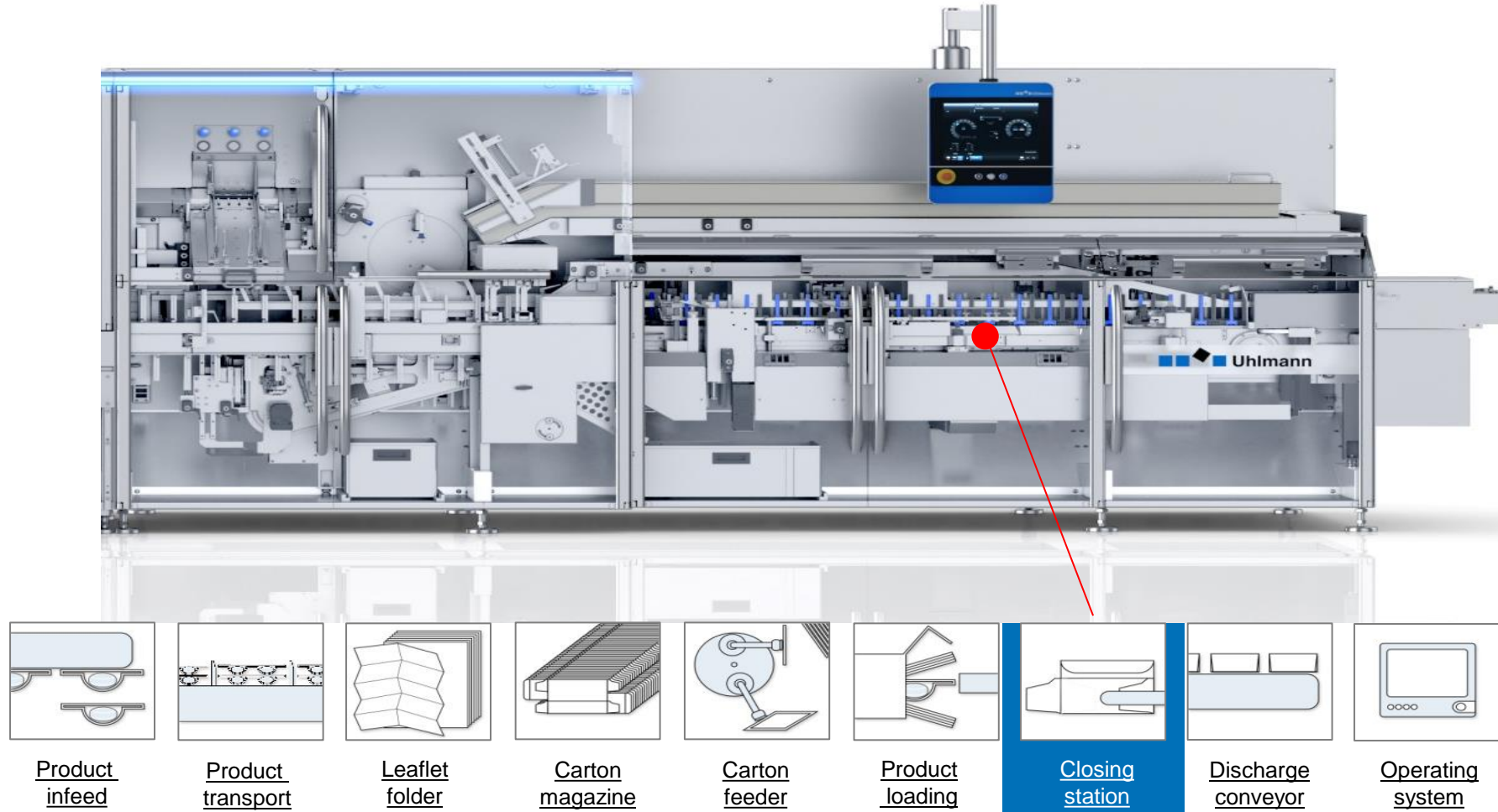


# Carton feeder

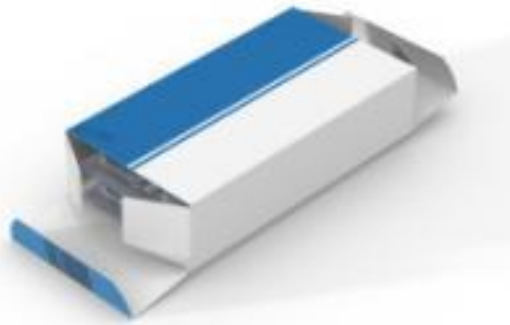
- 100% good product philosophy:
  - Only perfect blister stacks are inserted
  - Accurate insertion of the blisters into the cartons using servo-driven product loader
  - Accurate leaflet positioning/prefolding (particularly in the case of thicker leaflets) using servo-driven leaflet pre-loader



# Cartoner C 200



# Types of closure



Tuck-in closure with airplane flaps



Tuck-in closure with reversed flaps



Combination tuck-in and hot-melt closure



Double-sided hot-melt closure

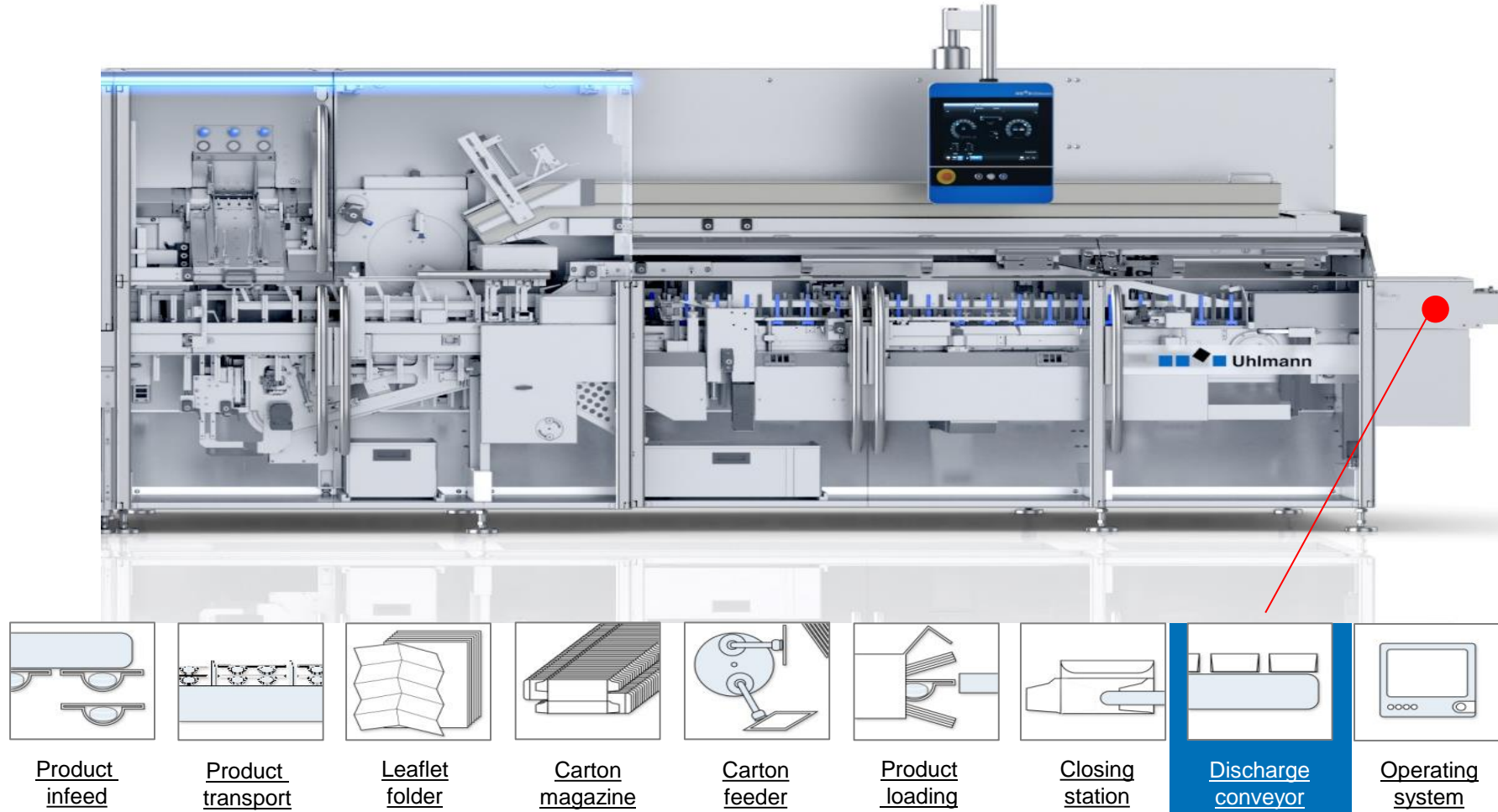


Double-sided hot-melt closure

# Closing station

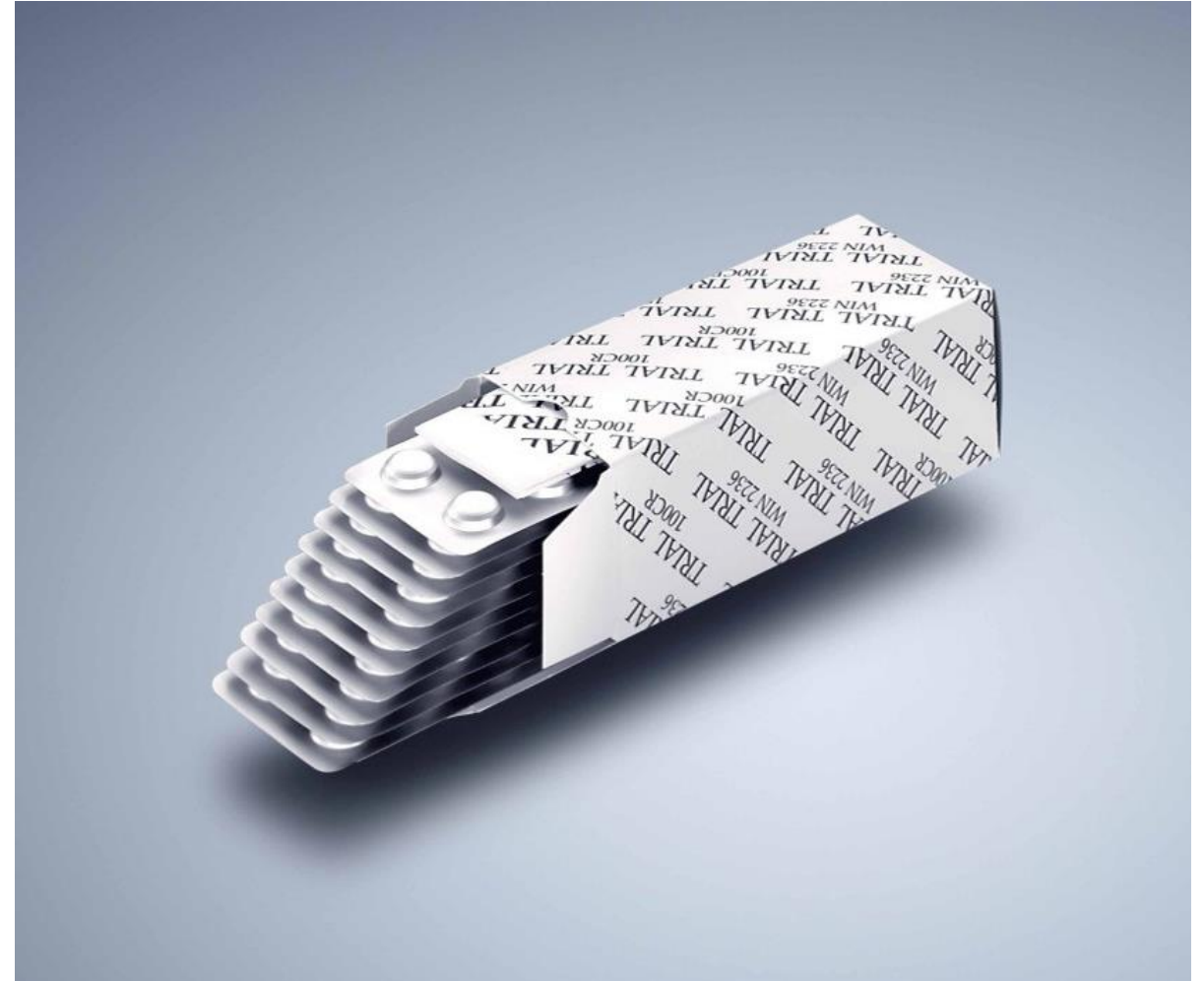
- User-friendly :
  - Straightforward operation and fast format changeovers
  - Easy changeover from tuck-in to hot-melt closure due to replaceable closing station (optional)
- Flexible: Integration of printing and inspection systems for Track & Trace parallel to embossing (optional)

# Cartoner C 200

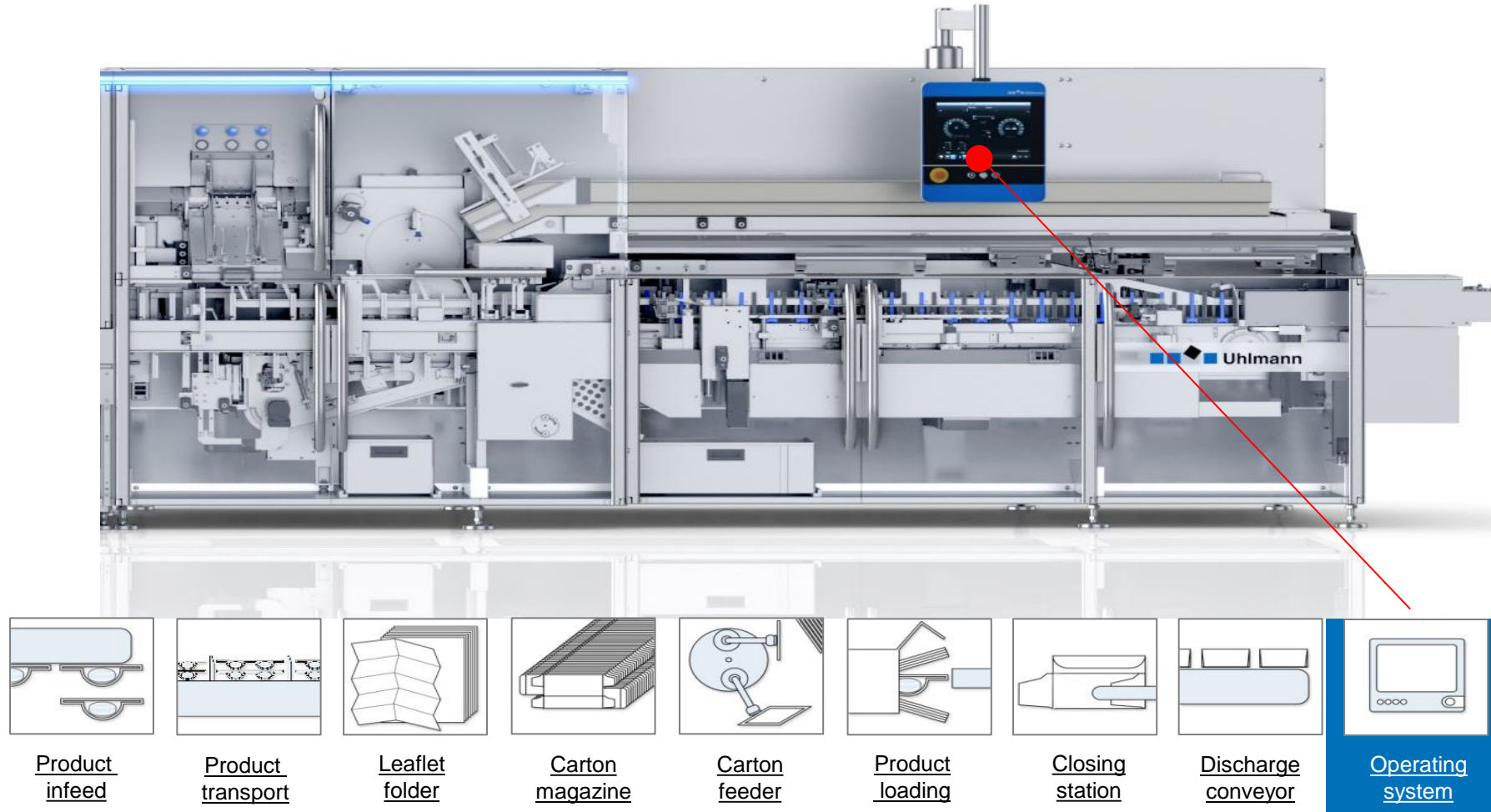


# Discharge conveyor

- Good product philosophy:
  - Only correctly filled cartons leave the cartoner
  - Faulty blister stacks are removed from the packaging process



# Cartoner C 200



# Operating system SmartControl

- User-friendly: Latest generation touchscreen interface for easy operation
- Efficient: Inspection system HMI integrated into the central operating interface; generation of production and parameter audit trails in compliance with 21 CFR Part 11
- Modular: single PDA system, OPC-UA interfaces, as well as extendable to a superordinate SCADA (supervisory control and data acquisition) system (optional)





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# Technical Data – cartoner module

<b>Output</b>	max. 120/200* cartons/min.
<b>Format area</b>	
Carton size [A x B x H]	min. 30 x 15 x 65 mm max. 180 x 105 x 250 mm
Pitch	200 mm (optional adjustment to 100 mm)
Blister stack height	max. 100 mm
Types of closure	tuck-in, hot-melt, fourth flap

\*Optional output upgrade for cartons up to 85 mm wide

# Technical Data

<b>Space required C 200</b>	
Machine width (open doors)	approx. 3,610 mm
Machine height (incl. signal light)	approx. 2,497 mm
Machine length	approx. 4,627 mm

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# New efficiency

- Different views with one click: Apps, Machine, Assistance
- The visualization guides the user through the process steps within a production batch
- Focus on the process not on the stations
- Integrated machine documentation
- Fast error resolution with specific text messages
- Uhlmann Apps for efficient machine administration



# Faster to the target

- Well-structured layout: uniform structure, clear symbols, self-explaining widgets, consistent color coding
- Assistant wizards guide each operator in the same way to the target – standardized process flow
- Navigation path always shows your actual step



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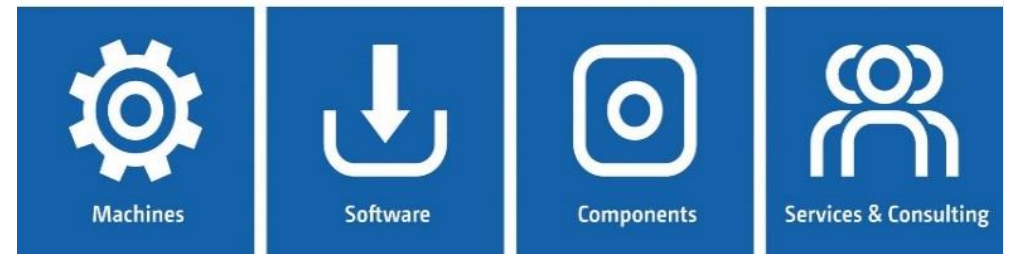
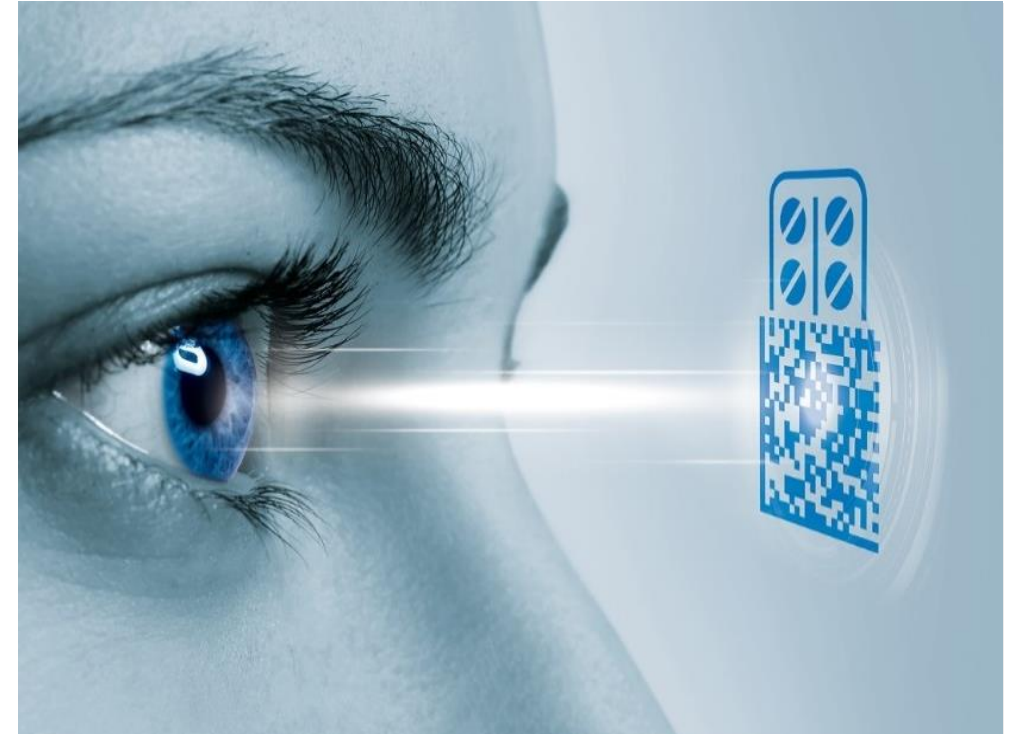


Track & Trace by  
Uhlmann

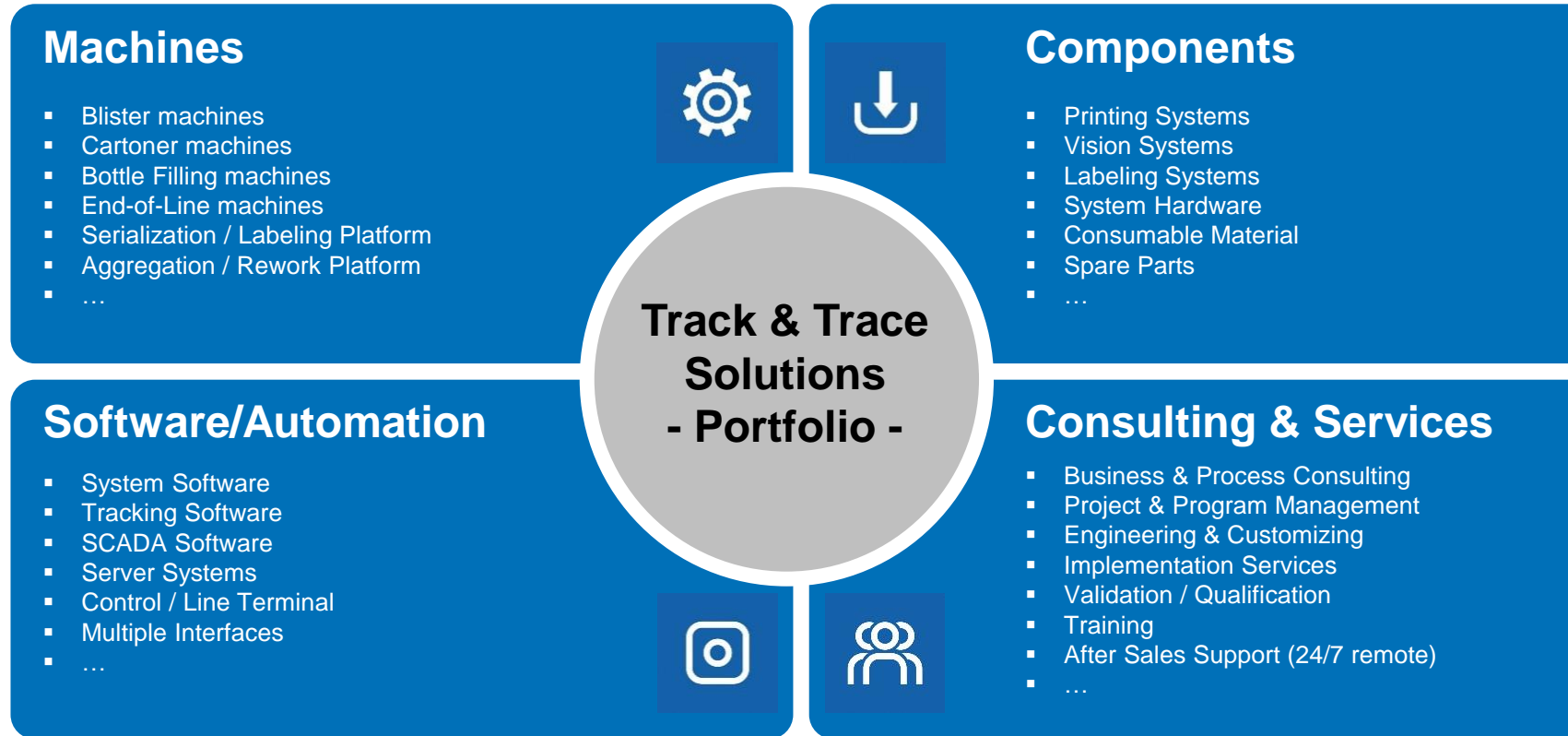


# Faster to the target

- Based on secure data handling
- For validated pharmaceutical safety
- High-speed-packaging with perfect OEE
- Turnkey solution up to corporate networks
- More than 70 years experience in pharma packaging
- Large portfolio for all Track & Trace demands
- Complete Track & Trace competence from a single source
- Own software R&D specialists
- For a lifetime partnership



# Portfolio



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## **6 Uhlmann Customer Services**

# So that everything runs perfectly: our services for you



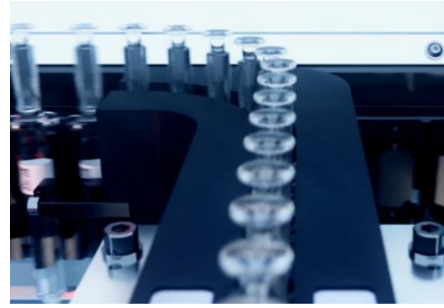
## Support Services

ServicePlus  
Telephone Hotline  
Remote Service/Excellence  
United Service Portal  
On-site Service  
Spare Parts  
Spare Parts Management  
PartsManager  
E-Shop  
Validation  
Production Support  
Relocation Service



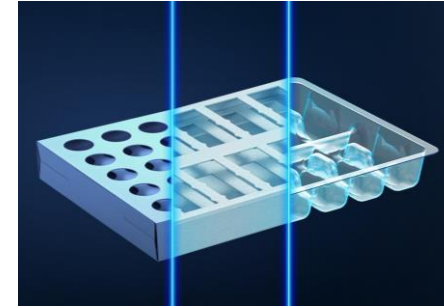
## Maintenance Services

MaintenancePlus  
Inspection  
Maintenance and Repair  
FMECA  
Calibration Services



## Productivity Services

ProductivityPlus  
Mechanical Upgrades  
Electrical Upgrades



## Training Services

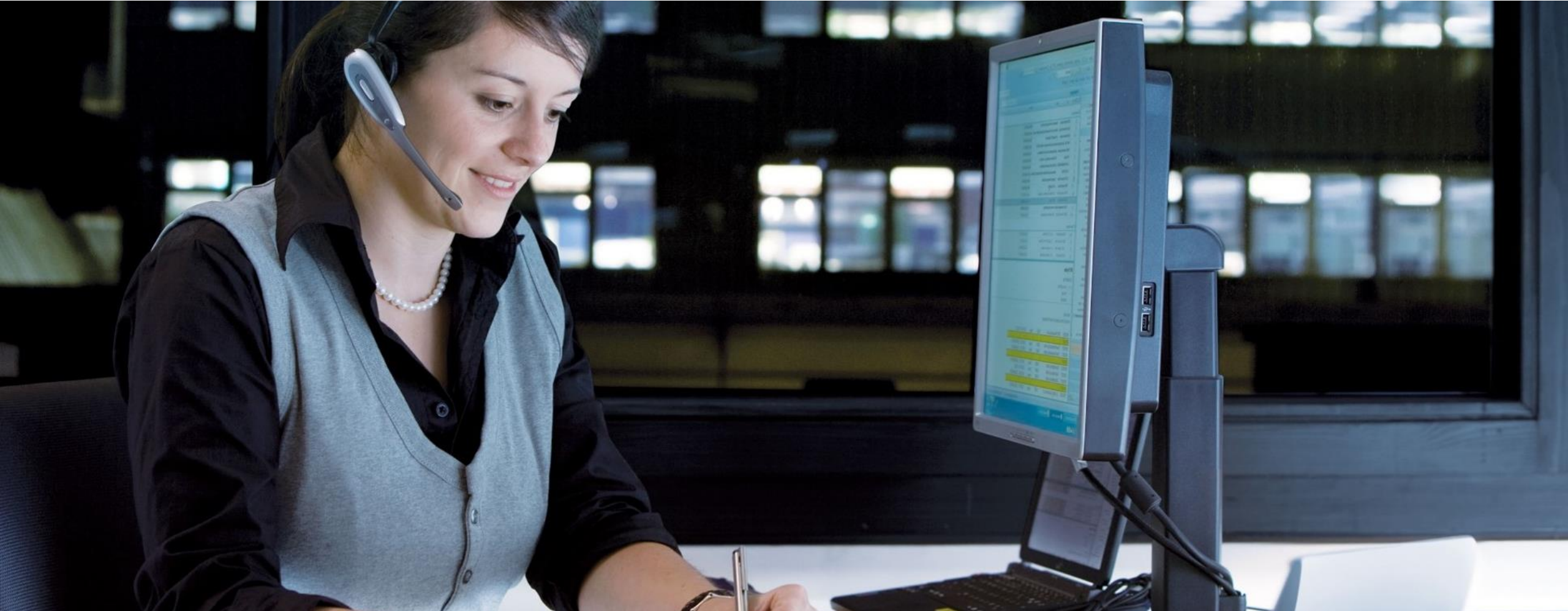
TrainingPlus  
Operating  
Format changeovers  
Maintenance  
Electrics/Electronics  
Administration



## Tools and Format Parts

TopTools  
Tool Management System

# Support services for your operations



# Maintenance services for your machine



**Long life cycle and value retention,  
high level of reliability, low risk of  
failure, stress-free maintenance**

# Productivity services for your company



**Improved efficiency and productivity,  
lower operating costs, production  
reliability**

# Training services for your employees



**Added confidence in machine handling, improved machine uptime, increased effectiveness**



# Format parts for your production process



**Smooth processes, investment security, efficient tool logistics**

UHLMANN  
GROUP  
BEYOND PACKAGING



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