



**It's Safe, It's Reliable,  
It's the Future**

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Uhlmann Track & Trace

# UHLMANN TRACK & TRACE

100 % SECURE FOR 100 % SAFETY

As a pharmaceutical manufacturer, you are faced with the two-fold challenge of ensuring that your business complies with current governmental Track & Trace regulations while also seeking to improve your business model for the future. To meet all these conditions, comprehensive solutions for the tracking of pharmaceutical products, medical devices and their packaging are needed.

Uhlmann Track & Trace ensures a reliable supply chain from start to finish to prevent the circulation of falsified products that could ultimately pose a serious health risk to patients. Our modular units for serialization, labeling and aggregation enable you to respond quickly and flexibly to changing specifications. We integrate the appropriate printing technology and label application options, as well as inspection systems, into each platform.

Our Track & Trace turnkey management and in-house developed software solutions are conceived to cover applications across all production levels, extending to direct connection to ERP/MES and government servers.

No matter which specifications you need to meet, Uhlmann Track & Trace ensures comprehensive falsification, product, and process safety. Whether integrated into your packaging machines or lines, or as a standalone unit. This meets your needs, as well as the regulatory requirements of today and tomorrow. Various alternatives for seamless traceability can be realized with Uhlmann Track & Trace. And beyond that, it's a true safety net for the future of your business thanks to our integrated "Safety Systems" method which allows you to build the data intelligence today that you need tomorrow.

## THE PORTFOLIO AT A GLANCE

### MACHINES

- › Blister machines
- › Cartoners
- › Bottle machines
- › End-of-line packaging machines
- › Serialization platform
- › Labeling platform
- › Aggregation platform



### SOFTWARE/AUTOMATION

- › Pexcite software platform
- › System software
- › Tracking software
- › SCADA software
- › Server systems
- › Line terminal
- › Various interfaces



### COMPONENTS

- › Printing / marking systems
- › Inspection systems / cameras
- › Labeling systems
- › System components
- › Consumables
- › Spare parts



### CONSULTATION & SERVICES

- › Consultation
- › Project management
- › Customized solutions
- › Implementation
- › Validation / Qualification
- › Training
- › 24/7 Remote service



# UHLMANN TRACK & TRACE

## SOFTWARE SOLUTION AND A TRULY OPEN PLATFORM

### CENTRAL ELEMENT: THE SOFTWARE SOLUTION

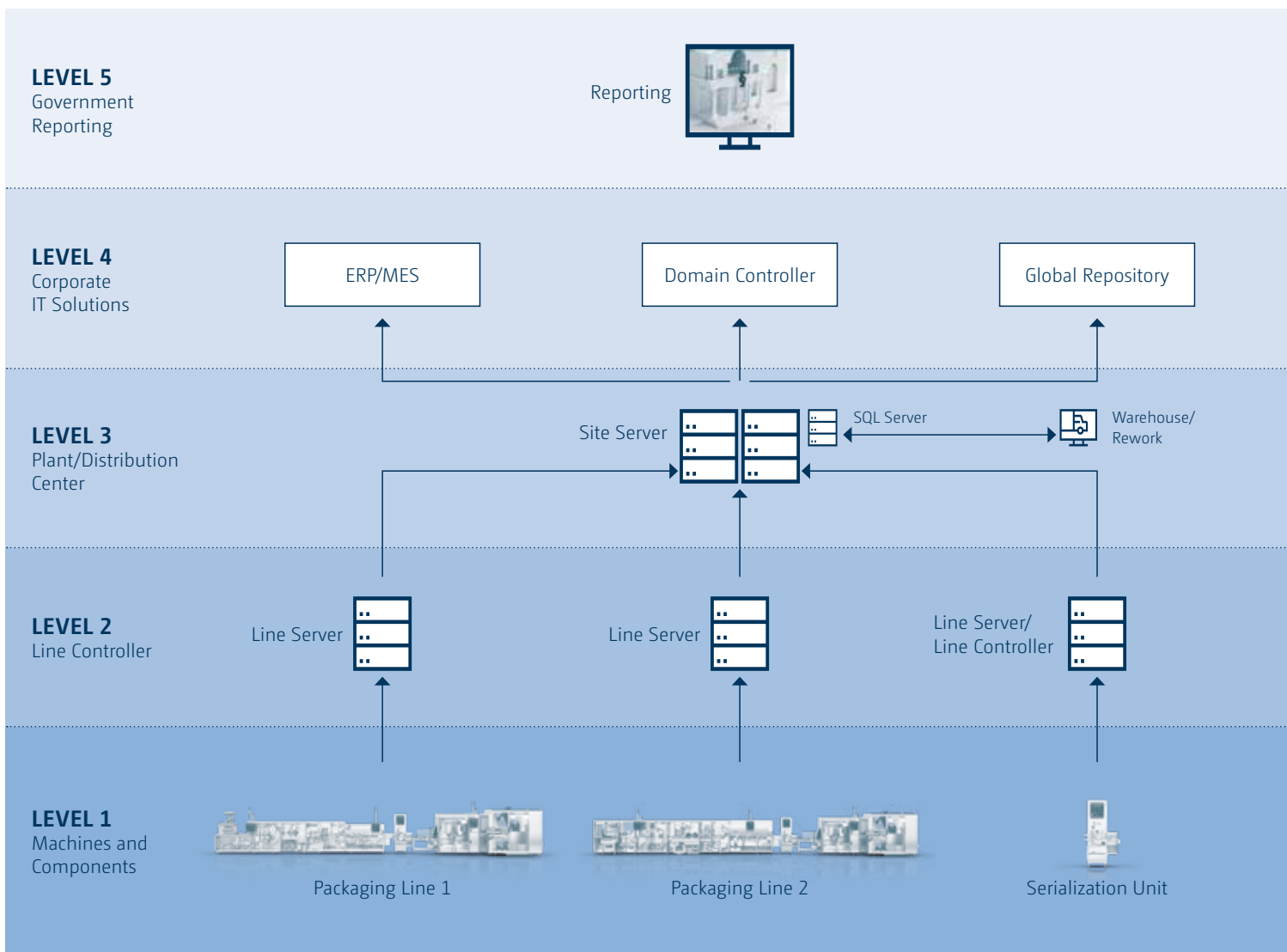
Uhlmann Track & Trace is part of our comprehensive digital portfolio named Pexcite. In-house developed software solutions based on modular, flexible system architecture form the central element of every Track & Trace application. These allow the collection, aggregation, management, and transfer of serialization data from the machine to line management, and to site management levels. All solutions permit an analysis of the data and ensure the required data security: serial numbers and codes are only generated once and cannot get lost.

Linking to existing system landscapes as well as superordinate systems is likewise an integral part of our portfolio and has been successfully implemented in numerous projects.

### PEXCITE. WE CONNECT. YOU CONTROL.

Pexcite is the new, open software platform for your individual production needs in the manufacturing and packaging of pharmaceuticals. The wide-ranging functions allow you to flexibly link your machines and equipment, regardless of the manufacturer. This enables you to systematically optimize your production processes and enhance production quality, while ensuring compliance with statutory requirements at all times.

System software architecture for the collection, aggregation, management, and transfer of serialization data



# UHLMANN TRACK & TRACE

## SERIALIZATION AND AGGREGATION



The latest serialization generation: Uhlmann Serialization Platform S 500

### SERIALIZATION

The basis of every Track & Trace application is the serialization process where each unit of sale is assigned with a unique 2D code. We offer different solutions for printing and verification of cartons or bottles as well as solutions for serialization of blisters.

Serialization can be done on cartoners or with the modular Uhlmann Serialization Platform S 500. Both integrated in a packaging line and standalone. These options apply not only to new or currently operating machines and lines from our portfolio, but also to machines from other manufacturers.



Uhlmann Aggregation Platform with the inspection system VisioRead, a handheld scanner, and a label printer

### AGGREGATION

The next step is the aggregation of the serialized items to larger units, the parent-child relationship along the pharmaceutical supply chain. This relationship principle allows all serialized articles of a pallet to be clearly assigned to the different packing levels.

For manual aggregation, the Uhlmann aggregation platform is available in a variety of configuration levels. For fully automatic packaging, we integrate an appropriate aggregation solution directly into the end-of-line packaging machines. These can be new or existing Uhlmann machines, or equipment of a different make.



Packaging line of parenteral products with Uhlmann Track & Trace: unique identification and traceability with medical device tracking in the blister machine, printing system and camera inspection in the cartoner, S 500 for serialization, and aggregation in the end-of-line packaging machine

# UHLMANN TRACK & TRACE

## SERIALIZATION PLATFORM S 500

### FOR CARTONS

<b>Max. output</b>	max. 300/500* cartons/min.
<b>Carton size [A x B x H]</b>	min. 30 x 15 x 85 mm max. 180 x 105 x 250 mm
<b>Conveyor speed</b>	max. 60 m/min.**
<b>Resolution TIJ printing system</b>	max. 300 dpi
<b>Tamper evident label size</b>	min. 20 x 12 mm max. 40 x 40 mm
<b>Tamper evident label folding length</b>	max. 20 mm
<b>Available functionalities</b>	Print & Verify front side Tamper evident labeling Top printing / Top labeling

\* Optional upgrade

\*\* Depending on packaging material quality and carton geometry

### FOR BOTTLES

<b>Max. output</b>	max. 150 bottles/min.
<b>Bottle diameter</b>	25 - 125 mm
<b>Bottle height</b>	45 - 200 mm
<b>Processable bottle materials</b>	HDPE white, glass
<b>Conveyor speed</b>	6 - 22,5 m/min.
<b>Resolution TTO label printing system</b>	max. 300 dpi
<b>Print field TTO</b>	53 x 55 mm
<b>Resolution CIJ printing system</b>	max. 82 dpi
<b>Print field CIJ</b>	32 x 32 mm
<b>Label height</b>	15 - 145 mm
<b>Label wrap-around</b>	181° - 359°
<b>Available functionalities</b>	360° inspection bottle sleeve Inspection helper code from top / bottom Labelling of round bottles incl. printing by means of TTO Printing of helper code from below using CIJ



More on Track & Trace:  
[www.track-trace-by-uhlmann.com](http://www.track-trace-by-uhlmann.com)



More on Pexcite:  
[www.pexcite.com](http://www.pexcite.com)



Uhlmann is a member of the  
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THE **HEARTBEAT** OF PHARMA PACKAGING

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