



**REPLACED THE MATERIAL FLOW COMPUTER
DURING OPERATION**



INITIAL SITUATION

B. Braun is one of the leading manufacturers of medical technology and pharmaceutical products and services worldwide.

The high level of automation at the Melsungen site is a key success factor.

From the ERP system to the machine: IT systems control logistics and production from end to end and are continuously adapted to changes or modernized.

The existing material flow computer (MFR) for LIFE 1 production (Leading Infusion Factory Europe) was now to be replaced. During the replacement, the ongoing operation (24/7) was not to be impaired.

Following the changeover, another new production plant was to be connected to the material flow control system.

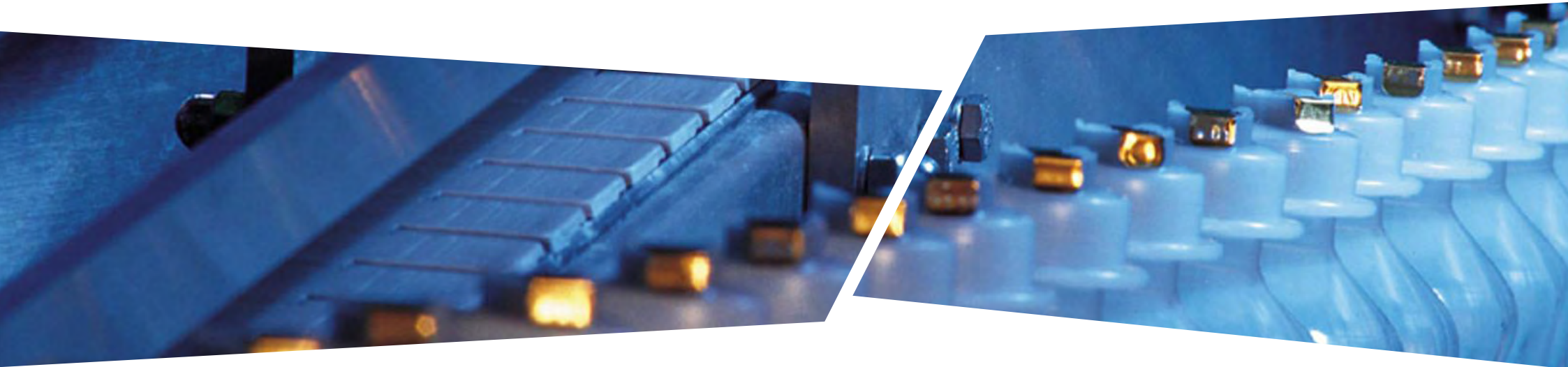


B | BRAUN
SHARING EXPERTISE

B. Braun SE

Melsungen, Germany

Production logistics in the
pharmaceutical industry



SOLUTION

The existing material flow computer was replaced with the UniWare-MFS material flow control system.

The following challenges were successfully met during the changeover to the Unitechnik system:

- Fulfillment of the very high quality and validation requirements in production (GAMP)
- Changeover of the MFS during ongoing operations since production is „around the clock
- Numerous interfaces to superordinate and subordinate systems such as production management system, driverless transport system and pallet conveyor technology

For the new production plant, Unitechnik implemented the pallet conveyor technology and the rack system in addition to the MFS connection.



TECHNOLOGY AND KEY FIGURES

- UniWare Material Flow Control System (MFS) with integrated plant visualization
- Host interface to Material Execution System (MES)
- Connection of several pallet transport control systems and a driverless transport system
- Pallet conveyor system, distribution trolley for transport between several building sections and building floors



Unitechnik *PERFECTION AUTOMATED.*

For two generations **Unitechnik** has been a successful owner-managed family enterprise. For five decades we have been counted among the leading providers of industrial automation and information technology. We plan and realize customized systems for in-house logistics and production whereby we are active throughout the world as an one-stop supplier.



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