

WORKS Logistics

Material flow optimization through time-controlled material re-ordering and material re-use



Following the 4R principle for intralogistics, WORKS Logistics ensures that the right material is provided in the right quantity at the right time in the right place. The application for controlling and optimizing material flows in the Intelligent Factory prevents unnecessary material travel as well as excess moves to and from storage and 'emergency stocks' next to the line.

The first function of WORKS Logistics continuously calculates the material requirement at the line based on freely definable time slices and interacts with the Factory Material Manager application to ensure automatic replenishments. The second function organizes and optimizes the interim storage of material in the setup preparation area in order to avoid unnecessary material movements between the warehouse and the shop floor.

Material flows perfectly optimized



Continuous demand calculation

WORKS Logistics continuously analyzes the material demands on the line based on freely definable time slices.



Automatic control and optimization

The data from the demand calculation forms the basis for the automatic control and optimization of material flows, supply requests to central and intermediate storage locations, and time-driven transport jobs.



Prevention of 'emergency stocks'

Never having too much or too little material on the line saves valuable space on the shop floor and prevents machine stops due to material shortages.



Relief for employees

Automatic 4R logistics provide relief for the employees in terms of planning, logistics and line operations.



Reduced logistics effort through intelligent re-use

When a production order has been completed, the application checks automatically whether the material will be needed again for additional orders the coming days and ensures that the material remains in the setup preparation area. This prevents unnecessary material storage and retrieval as well as material transportation.



Less effort for feeder kitting

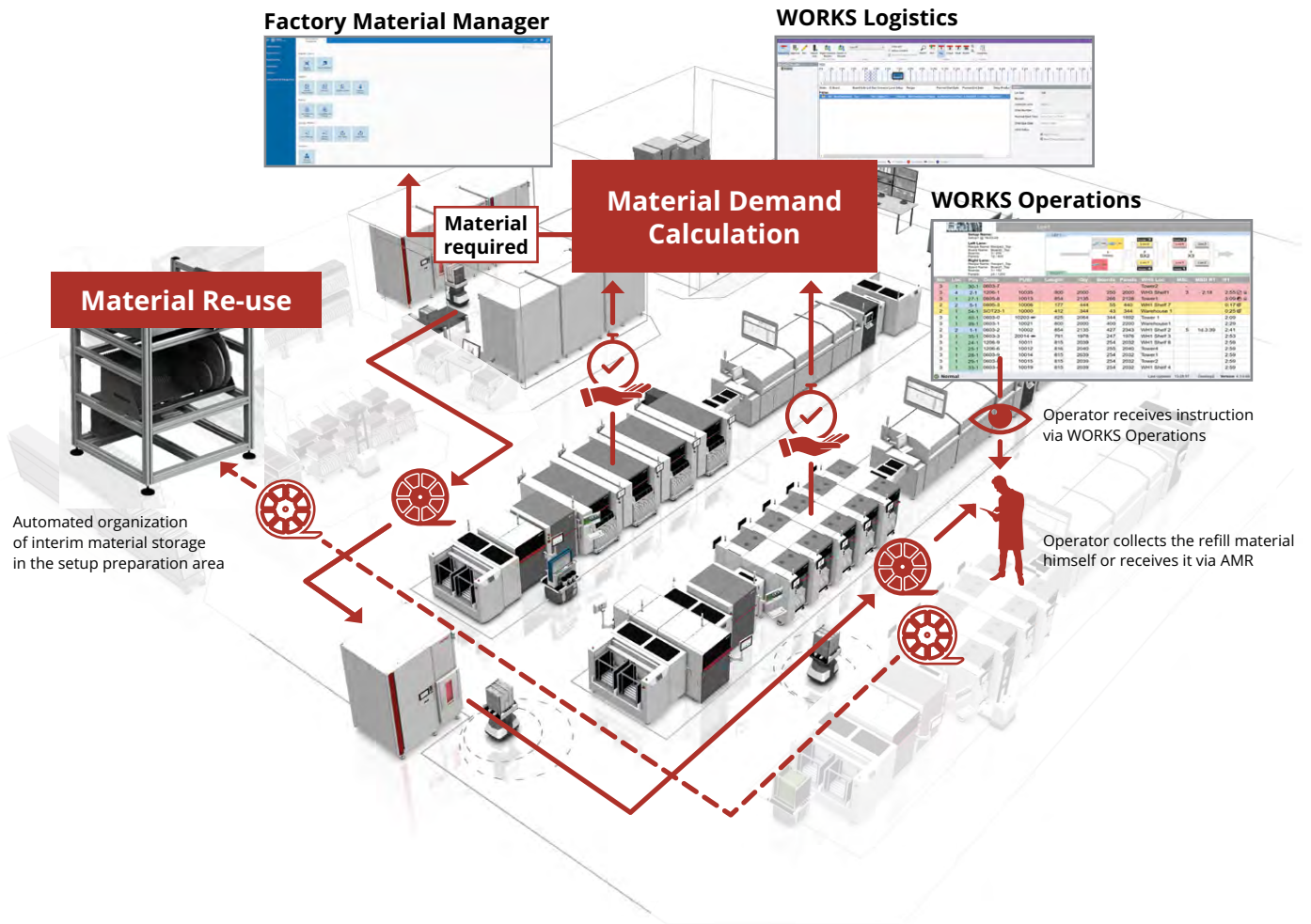
Thanks to the intelligent control algorithm, the set-up feeders are kept in the setup preparation area for as long as possible. This eliminates unnecessary setup and tear-down procedures.



Clear user guidance

Color-coded lights indicate precisely which material will stay in the setup preparation area, and which will be returned to storage. The target lane display shows which lane the conveyor should be placed on.

The practical implementation of the 4R principle in the Intelligent Factory



Your benefits at a glance:

- Data utilization across lines and factories
- Continuous demand determination
- Automatic material requests
- No 'emergency stocks' next to the line
- No machine stops as a result of material shortages
- Less setup work in the setup preparation area
- Selective interim storage
- Intuitive user guidance in the setup area
- Less material travel
- Fewer movements to and from storage
- Relief for employees

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