ASMPT enabling the digital world

WORKS Logistics

Transparent material management. Intelligent material flow control and optimization.



Missing components, excessive inventories, excessive material movements — there are many factors in electronics manufacturing that complicate the flow of materials and impair productivity, which makes it even more important to know at all times which material is available where and when it is needed on which line.

This is exactly where WORKS Logistics comes into play. The application combines two modules: **Material Management** ensures transparency about inventories and material movements by tracking each material container from the moment is received to its use on the production line. **Material Flow Control and Optimization** continuously calculates the material requirements at the line, controls replenishments, and organizes the re-use of materials that have already been set up. Together, both functions put the 4R principle into practice: the right materials in the right quantities at the right time in the right place.

Three good reasons for WORKS Logistics

Full transparency of inventories and material consumption

Each material container is clearly identified and tracked along the entire production cycle. Up-to-date inventory and consumption data provide the basis for reliable material planning and avoids the need for expensive manual inventory counts.

Less material travel, smaller stocks, reduced setup effort

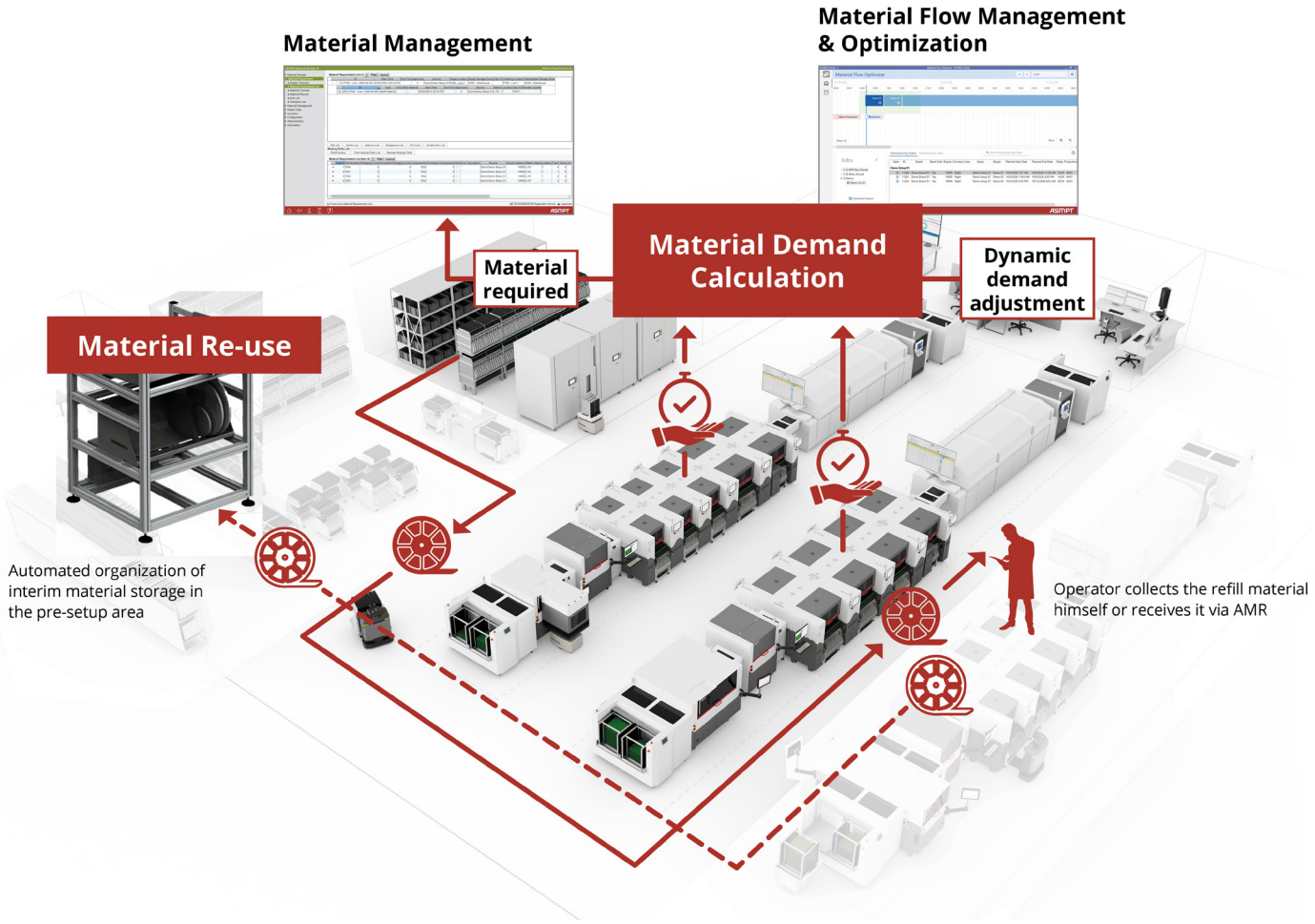
The intelligent re-use of materials paired with optimized interim storage avoids unnecessary material movements as well as stock withdrawals and returns. This relieves the employees, saves space, and reduces the logistical effort.

Demand-based material supply of SMT lines

WORKS Logistics continuously calculates the material requirements and controls replenishments in accordance with actual production activities. This ensures that the needed materials are available at the line without the build-up of unnecessary safety stocks.

From total inventory transparency to optimized material supply

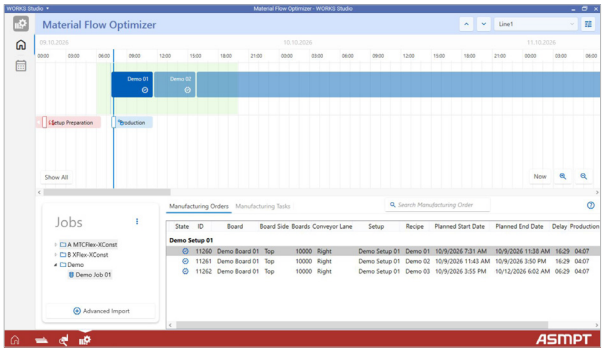
WORKS Logistics



WORKS Logistics – Material flow control & optimization

Material flow optimization through time-based material reordering and re-use

Following the 4R principle for intralogistics, WORKS Logistics ensures that the right material is provided in the right quantity in the right place at the right time. The module for controlling and optimizing material flows in the intelligent factory prevents unnecessary material travel, excess moves to and from storage, and unnecessary safety stocks along the line.



With its Material Flow Control and Optimization module, WORKS Logistics ensures demand-based material replenishments along the line.

The module's first function continuously calculates the material consumption on the line based on freely definable time slices and interacts with the Material Management module of WORKS Logistics 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 factory floor. WORKS Logistics optimizes the factory's equipment utilization by further refining the rough production schedule created by WORKS Planning and flexibly adapting the job execution sequence to short-term production changes.

Intelligent material flow control

Continuous demand calculation
WORKS Logistics continuously analyzes the material demands along 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, for supply requests to central and intermediate storage locations, and for time-driven transport jobs.

Prevention of safety stocks
There is never too much or too little material at the line. This saves valuable factory floor space and prevents machine standstills as a result of material shortages.

Relief for employees
Automatic 4R intralogistics provide relief for scarce employees in matters of planning, logistics, and line operations.

Less logistics effort through intelligent re-use of materials
After completing a production order, the application automatically checks whether any of the materials are needed for further orders in the coming days and arranges for their interim storage in the setup preparation area.
This prevents unnecessary material travel and movements to and from storage.

Fewer setup steps
Thanks to the intelligent control software, kitted feeders are kept in the setup preparation area for as long as possible. This reduces the number of feeder kitting and tear-down procedures.

Clear user guidance
Color-coded lights indicate which materials should remain in the setup preparation area and which should be returned to storage. The target track indicator shows which track the feeder should be placed on.

Your benefits at a glance:

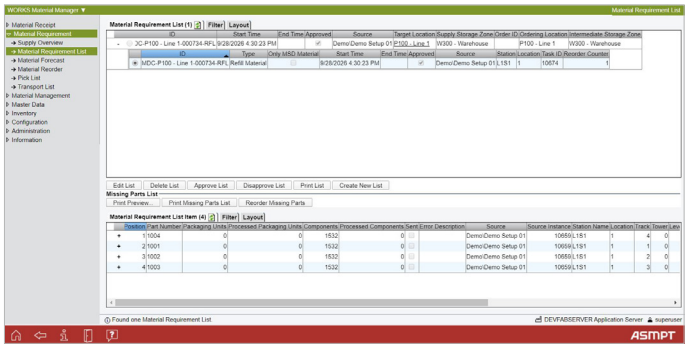
- Optimized utilization of existing production facilities
- Continuous demand determination
- Efficient creation of setup tasks
- Automatic material requests
- No safety stocks at the line
- No machine standstills as a result of material shortages
- Fewer setup processes in the setup preparation area
- Selective interim storage
- Intuitive user guidance in the setup area
- Less material travel
- Fewer movements to and from storage
- Relief for employees
- Direct transmission of placement jobs to the placement machines

WORKS Logistics – Material management

Accurate inventory data for more control and greater yields

Where is which component reel located? Which materials are needed for the next production run? How do I detect that material is missing before picking begins? If you are able to answer questions like these quickly and correctly, you have a real competitive advantage in today's SMT production.

By capturing and tracking each material package or reel across the entire production cycle, the material management module of WORKS Logistics provides total transparency of consumption and inventory data in real time. WORKS Logistics automates and optimizes setup processes and component supplies at the line, thus avoiding material shortages and eliminating the need for expensive safety stocks.



With its material management module, WORKS Logistics delivers total transparency of material stocks.

Transparent inventory management

Unique identification number
Each package or reel is given a unique ID (UID) with associated data indicating the manufacturer, lot number, delivery date, and MSD requirements.

Data transfer from WORKS Programming
SMD and circuit board data regarding the material requirements for a production job can be imported from WORKS Programming.

Automatic material requests
The software issues automatic material requests based on demand forecasts or the actual consumption data reported by the placement machines.

Manual material requests
At any time, users can issue material requests manually from their PDA via WORKS Preparation or WORKS Logistics.

Position reporting via WORKS
Whenever material is set up or spliced to another reel, WORKS Logistics gets notified by WORKS Preparation and updates the package quantity.

Administration of MSD components
WORKS Logistics monitors the storage and exposure times of moisture-sensitive devices (MSDs).

Continuous tracking
Whenever a reel or package changes its location, its ID gets scanned and reported to WORKS Logistics.

Reordering from component suppliers
The consumption and inventory data reported by WORKS Logistics to the ERP system forms the basis for repeat orders to the manufacturer.

Optimized pick lists
Based on the material requirements, WORKS Logistics generates exact pick lists that contain either the total quantity (for small orders) or the quantity needed for preparing the setup. The materials required for subsequent replenishments are taken from storage later. The program strictly follows the FIFO principle (first in, first out).

Integration of storage systems
Thanks to standardized interfaces, even automated systems from third-party suppliers can be integrated into the workflow. The system supports a wide range of storage systems such as classic racks, Material Towers, SMD lifts, shuttles, carousels or paternosters (like those made by Kardex), as well as fully automated systems.

Your benefits at a glance

- Simplified and automated receiving of incoming goods
- Unique ID for each material reel/package
- No cumbersome manual inventory-taking
- Timesaving, path-optimized pick list
- Cost-efficient and effective use of resources
- No under- or overstocking of material
- No line stops
- No losses due to expired components
- Consideration of moisture-sensitive devices
- Communication with automatic storage systems

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More about
WORKS Logistics

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