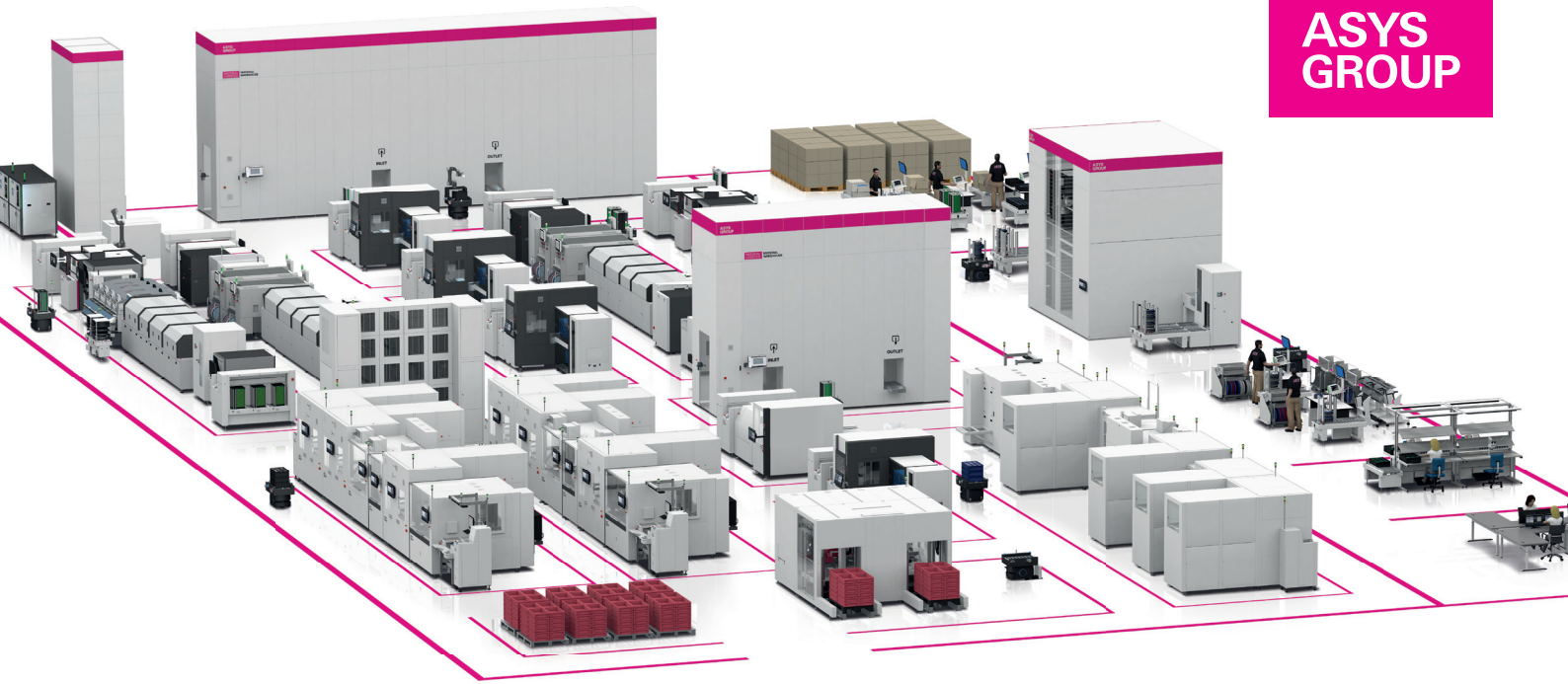




**ASYS  
GROUP**



**MATERIAL LOGISTICS**

# Material Handling for your Smart Factory

We take care of your Material

## 1 Smart Buffer

+200% automated capacity



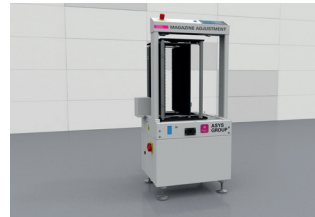
The Smart Buffer is a modular and scalable buffer system for PCB magazines, KLT boxes and tray stacks. The buffer consists of 3 to 5 buffer levels as well as upstream and downstream vertical lifts. Due to its modular design, the buffer can be designed with a wide range of buffer capacities.



- › 40% less shopfloor floorspace
- › Flexible, expandable and scalable – Following your line concept
- › Product protection by defined conditions
- › Integration in autonomous material flow
- › Buffer to cover the WorkInProgress

## 2 Magazine-Width-Adjustment

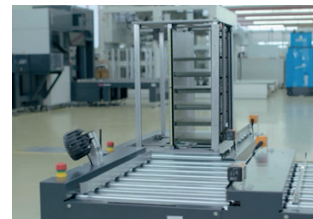
4x higher operator efficiency



- › Process safe adjustment
- › Universal for different magazines
- › Decoupled magazine adjustment
- › Location-independant

## 3 Bareboard Preparation

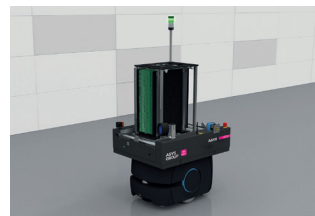
4x less operator binding for bareboard refill



- › Decoupled bareboard preparation
- › Continuous line supply
- › Start tracking on batch level
- › Material trace at any stage

## 4 Autonomous Mobile Robot

100km material transport per day



- › Universal platform
- › Easy brownfield integration
- › Scalable to fully connected factory
- › Intelligent safety routing

## 5 Reel Handling

6.000 reel movements per station



- › Universal reel handling modules
- › Modular combination
- › Use-case oriented options
- › Easy brownfield integration
- › Scalable to fully connected factory

## 6 Pick-by-Light-mobile

100% picking rate by visual operator support



The mobile material transport system Pick-by-Light-mobile represents the interface to the line replenishment of the placement systems. The machine can pick up a filled reel magazine, presents it to the operator and visualizes the next required SMD component reel via the LED light function of the smart labels.



- › Process secure reel replenishment
- › Demand-oriented supply
- › Visually guided reel picking

## 7 DryTower

75% space saving for Reel Storage



- › 75% space saving in the area, by using the max. system height
- › Direct access to each individual reel avoids search times
- › Full MSL traceability

## 8 Material Inbound

+300% faster reel inbound



- › Fully automated reel inbound
- › Automated labelling
- › Minimization of human error
- › Complete traceability by UID

## 9 Feeder Preparation

60 reels at once in the correct sequence



- › Up to 60 reels per container
- › 100% correct sequence
- › Universal for all 7...15'' reels
- › Easy brownfield integration

## 10 Fully autonomous printer

100% autonomy



- › Customizable in steps and easy to integrate
- › Sphere - intelligent print head reduces paste consumption
- › Just-in-time job changes without operator intervention

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**TRANSFORMING IDEAS**  
Automate, Digitalize & Connect

**ELECTRONICS**

# **AUTOMATE, DIGITALIZE & CONNECT**

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