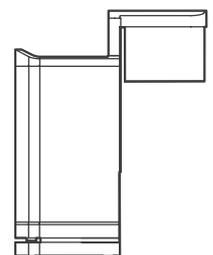


MAGAZINO SOTO Carton



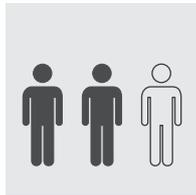
Supply-by-Robot for Fashion Logistics

Automated supply of cartons

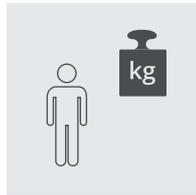


The problem

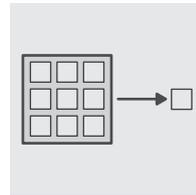
So far, unautomated, piece-precise access to individual boxes in warehouses possible



Skills shortage



Non-ergonomic work



Smaller lot sizes



Extreme order peaks

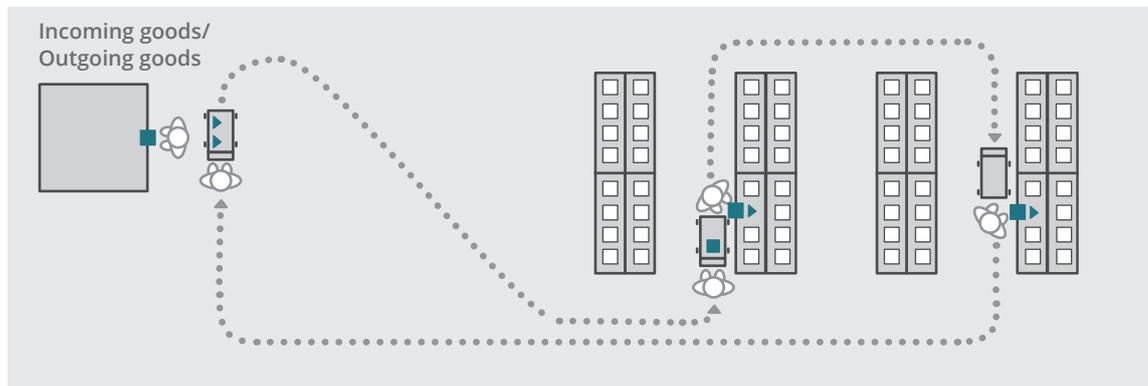


Short contract periods

At the moment, mostly conventional storage systems are used in warehouses. Piece-precise access to individual items is always carried out by humans.

Previous solution

Manual process



Disadvantages

- Manual work

- High labor costs

- Non-ergonomic work

Our solution

SOTO Carton - Automated supply of cartons

SOTO automatically navigates to a transfer station, locates, identifies and picks up the desired, individual cardboard box and stores it in its accompanying storage space. Then brings the picked objects to the destination and places them there with millimeter accuracy.



Efficient and scalable

Automate replenishment supply flexibly with robots

While pickers compile the customer orders, the stock of articles must be constantly ensured. SOTO can take over the step of sorting filled boxes onto the shelf. This can be done either before the start of the overnight shift or in parallel to the ongoing picking. Another area of application is the „compaction“ of stocks. SOTO can relocate existing cartons during operation to ensure optimum stock utilization.



Reduced wages and process costs



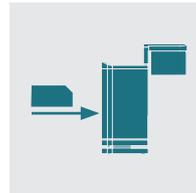
Support of non-ergonomic tasks



Easy integration in the existing warehouse



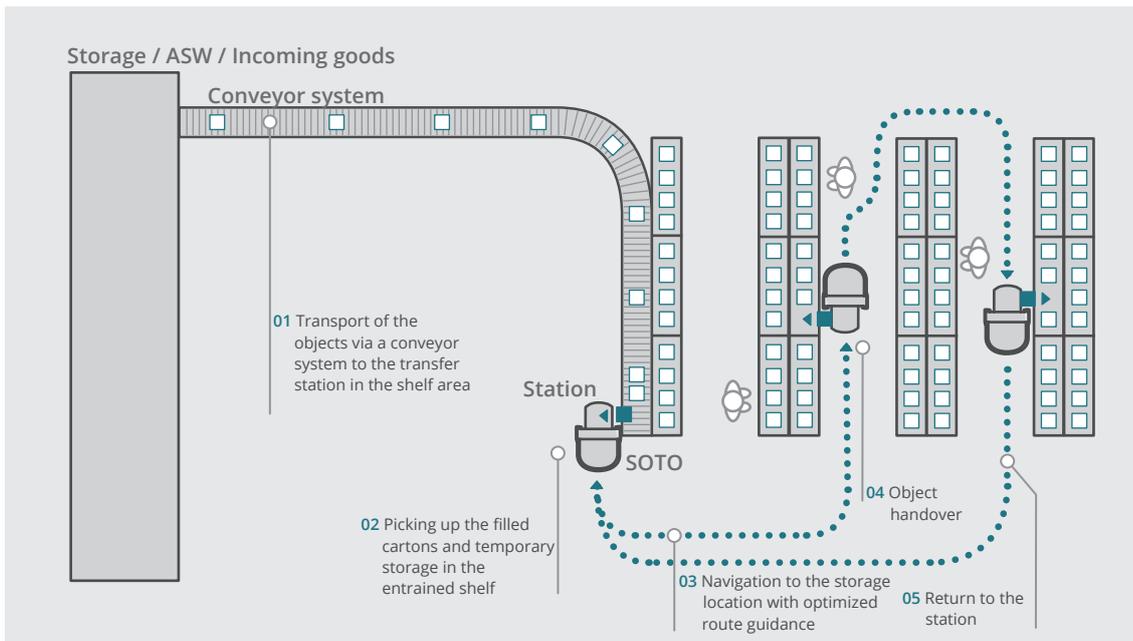
Use parallel to humans



Flexible gripping process

Process with SOTO

Exemplary representation of a typical application



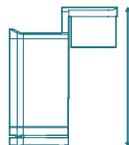
Specifications

Technical details



Manageable objects

Min. dimensions object (L x W)	380 mm x 190 mm
Max. dimensions object (L x W)	600 mm x 400 mm
Min. object height	130 mm
Max. object height	400 mm
Max. object weight	15 kg



Robot action area

Max. gripping height above ground	2.500 mm
Min. gripping height above ground	50 mm
Fill level per robot	4-18 cartons

