

Case Study

Fast Order Fulfillment





Automated batch picking

Customer and task

Replacedirect's mission is to prolong the life of electronic devices by offering a wide range of spare parts. Online sales account for 98% of their business with approximately 100 employees serving 23 countries.

They had outgrown their premises and were challenged to complete multiple orders with tight delivery demands. They required higher performance and better accuracy in a smaller footprint.

Replacedirect needed to integrate incoming goods, outgoing goods, and repairs into one process, while simultaneously adapting new logistics processes to the existing building's layout.

Solution

The team chose four Vertical Lift Modules Kardex Shuttle followed by three Kardex Horizontal Carousels with a closed-loop conveyor system. Together they hold 100,000 various-sized articles (the Kardex Horizontal Carousels offer 950 m² storage in a 170 m² space and the Kardex Shuttles offer 530 m² storage in a 40 m² space).

Screens indicate incoming and outgoing operations in different colors. Supplies ready for storage are electronically recorded at packing stations, and then automatically directed to the picking stations by conveyors.

Once picked, outgoing orders or repairs travel automatically via conveyors to either dispatch or repair.

The pick- and put-to-light systems combined with batch picking make it possible to accurately pick, and replenish for retail, wholesale, and repairs simultaneously. Replacedirect now delivers 2,000 orders/day.

Case at a glance

How we took our customer from task to solution

The Dutch company, Replacedirect, is a major player in the after-sales market for electronic equipment. To keep up with an ever-growing customer base, Kardex customized a logistics solution to handle picking and replenishing simultaneously. This ensures Replacedirect processes orders and carries out repairs quickly and reliably.

Error-free
picking &
delivery

Faster
delivery
service

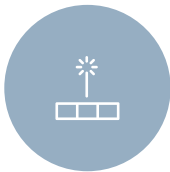
Maximum
storage
in a small
footprint



Scope of delivery



4 Kardex Shuttles W: 3,380 | D: 3,074 | H: 8,150 mm
3 Kardex Horizontal Carousels W: 6,750 | D: 28,665 | H: 2,597



Pick-to-light/put-to-light systems
Picking information displayed on a separate monitor



Dynamic batching and ERP interface
Full conveyor system between ground floor and first floor
including sorting