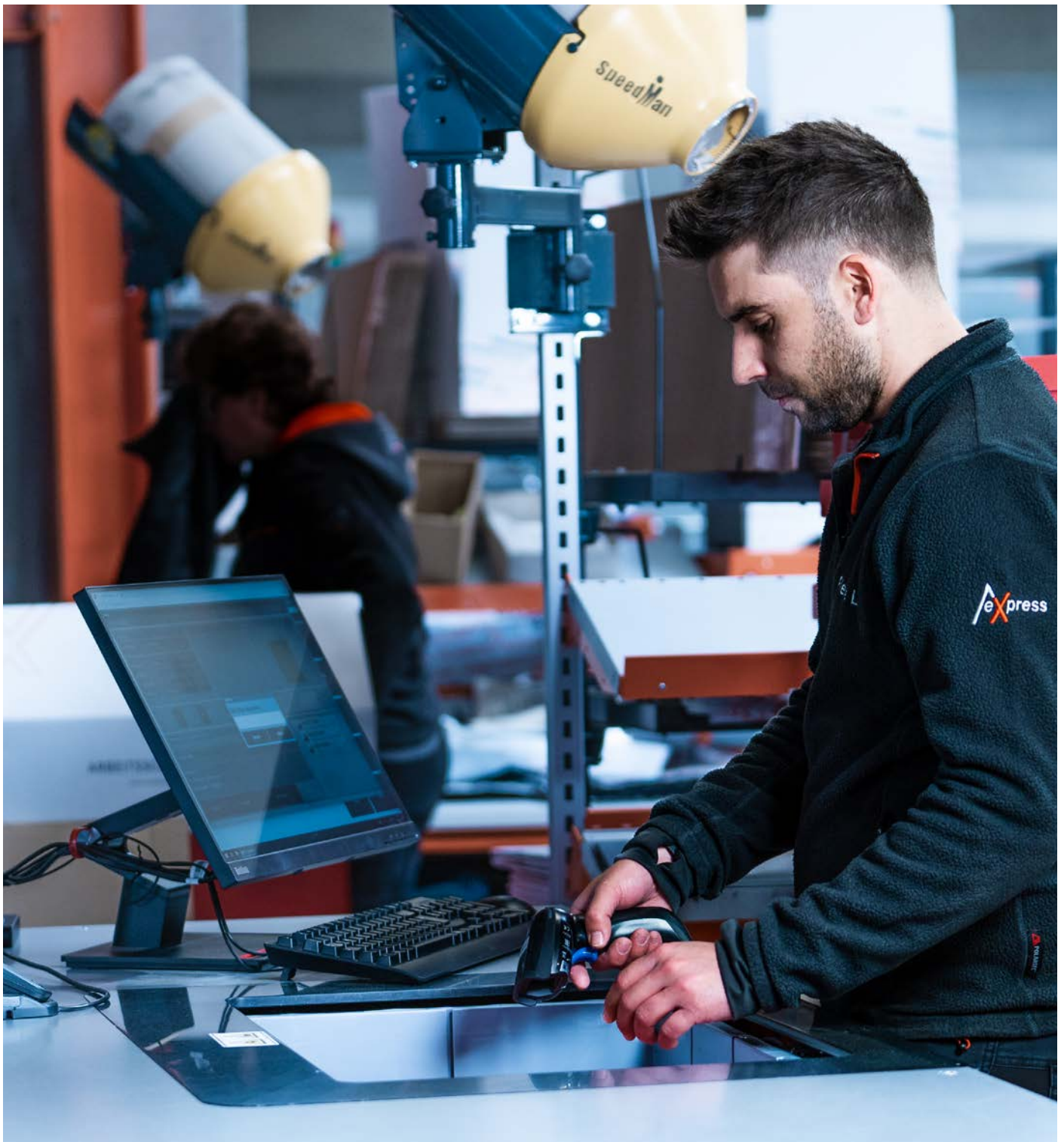Case Study

More Storage
in Less Space

kardex

Highly efficient and scalable

Customer and task
To keep up with rapid company growth, and to be able to continue supplying customers reliably and promptly, the decision for an automated order fulfillment system was inevitable for the online retailer. With the existing shelving system on 3,000 m² floor space, Arbeitsschutz-Express had reached the capacity limit.

The most important requirements for the e-commerce company in terms of their new storage system were best possible utilization of the available storage space, fast processing of customer orders and maximum reliability.

Solution
Installed on an area of 1,400 m², the AutoStore system provides space for 54,000 storage bins. Battery-powered robots move along the rails on top of the aluminum grid, picking up bins, re-arranging them, and presenting them at ergonomic Carousel Ports for replenishment and picking.

If performance requirements increase in the future, Arbeitsschutz-Express can add more robots to the system as needed. Future expansions with Conveyor Ports used for replenishment were already considered during installation.

From order entry to order dispatch, the online retailer is now able to process orders within 30 minutes – regardless of whether the goods are stored at the top of the grid or at a depth of almost 7 meters.

Where previously 30 employees were needed in two shifts during peak season, 12 employees are now deployed in one shift to reliably handle the daily business of approximately 2,000 parcels.

Case at a glance

How we took our customer from task to solution
The fast-growing e-commerce company Arbeitsschutz-Express required more storage and faster fulfillment processes – an AutoStore system turned out to be the right solution. Previously, the company was operating at over 100% capacity in a storage area of 3,000 m². Thanks to high-density storage, Arbeitsschutz-Express can now store more items in half the area, just 1,400 m². The AutoStore goods-to-person system is just 60% full today, offering plenty of room for further growth.

50% less floor space

Increased **picking speed**

Less staff required

Scope of delivery

AutoStore system with capacity for 54,000 storage bins sized 649 x 449 x 425 mm (L x B x H), 26 robots type „R5+",
and six ergonomic Carousel Ports for replenishment and picking

Wide-aisle warehouse for pallets and outside warehouse where pallets are stored in block storage

Kardex Control Center software solution that maps all customer requirements: Goods receiving, putaway, picking, shipping, returns processing, value added services, supply of the store

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