Cutting-edge eCommerce fulfillment

Boxy: With an integrated software and robotics solution, 3PL service provider Boxy realizes cost and service advantages for eCommerce stores of all sizes

At a glance

Company
Boxy

Industry
3PL/Logistics Services

Facility
Distribution Center
Budapest

Key figures
10,000 sqm area
2,500 sqm AMR sortation

Scope

- Warehouse Management System (WMS)
- Unified Control System (UCS)
- Shipping & Dispatch System (SDS)
- Interfaces to ERP and CRM
- Integrated robotics solution (AMR)
- Pick-by-light and put-to-light order picking

State-of-the-art technology, the largest automated fulfillment warehouse in Hungary, a brand new sameday delivery fleet: Boxy is Hungary's most innovative and efficient logistics service provider for online retailers. The turnover rates of enterprise customers from the entire Central Eastern Europe region vary from 100 to several million orders per month.

Compared to manual warehouses or in-house solutions, Boxy enables its clients to achieve cost savings of up to 50 percent, extremely short lead times and end-customer-friendly same-day delivery in the greater Budapest area—which is important for addressing the constantly growing demand. The prerequisite for this is highly automated, integrated warehouse logistics, which Boxy was able to implement with Infios.

300
picks per hour/
workstation

233%
increase in picking
performance

1,300
sorted packages
per hour

infios
a Körber company

Boxy

Logistics ecosystem

At the heart of Boxy's logistics network is the recently commissioned state-of-the-art distribution center in Budapest and an innovative logistics software landscape. In just twelve months, Infios was able to implement a high-performance set-up in the form of a dynamically scalable, growing fulfillment platform and Autonomous Mobile Robot (AMR) integration as a partner for the entire logistics processing.

The platform is based on a logistics ecosystem. It has the Warehouse Management System (WMS) at its center, but with an integrated interplay of Infios's WMS, UCS and a large number of automated components from the robotics suppliers Geek+ and Libiao. The platform by far exceeds the functions of pure warehouse management.

Infios's UCS orchestrates the robotics solution for goods-to-person and parcel sortation, the workstations for the picking area and the sorting stations. For example, it controls the AMR, which bring the respective shelves to a pick-by-light station. There, the employee is informed of the goods in the compartment and the position where he has to place them for further processing.

> "The software solution from Infios is the heart of our customer fulfillment strategy and a real game changer for us, with which we can react flexibly to customer requirements. We are proud of the productivity and efficiency that we have achieved thanks to Infios in a record time of less than 12 months."
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> **András Táncsics**
> CEO, Boxy

The integrated pick-by-light and put-to-light technology allows exceptional efficiency with minimal training. Compared to manual picking, Infios has thus been able to increase performance by 233 percent to 300 picks per hour and workstation. The Shipping & Dispatch System (SDS) finally integrates the subsequent, external processes.

In addition to performance, Boxy and Infios also placed emphasis on end-to-end transparency and high responsiveness of the overall system. By integrating the robot control system into the UCS, the AMR workflows can be continuously adjusted to maintain an efficient flow of goods and meet growing customer demands for purchasing convenience and delivery speed. Improved shipping performance is also supported by the Infios Shipping & Dispatch System (SDS). This facilitates shipping processing via a large number of carriers and forwarders and enables the right service provider to be selected from a quality and cost perspective.

Growing with success

Of a total warehouse area of around 10,000 square meters, 2,500 square meters are reserved for sorting. On an extra-large table, AMRs handle the sorting of parcels according to 85 different destinations, routes and delivery times. Output is up to 1,300 units per hour as of today. The facility is designed for further growth, so performance can be scaled flexibly via additional AMRs, without significant changes to the infrastructure or programming interventions.

For Michael Brandl, Executive Vice President Operations Software EMEA at Infios, there is no question about the growing demand: "The ever-increasing expectations of consumers for immediate delivery capability are becoming an increasingly important competitive factor. Highly specialized 3PL service providers like Boxy have developed their core business from this. Our job is to provide them with the right technologies."

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