

Automating efficiency at scale for food and beverage warehousing



Customer challenge

A global food and beverage company needed a **large-scale storage and distribution center** that could manage goods with a wide range of temperature requirements. **Sustainability** and **innovation** were top priorities – the company needed the site to deliver on a number of environmental goals, as well as include a space where teams could **design and test new warehouse technologies**.

Solution

GXO and the customer collaborated to design a sustainable, highly-automated center that harnesses technology for **faster and more agile distribution** across **more than 600,000 square feet (sq. ft.)**.

Next-generation automation

High-bay automated storage and retrieval systems (ASRS), pallet monorails, layer pick gantry system,

case pick robotic arms, case shuttle order storage and retrieval, and stacking materials all work together **to dramatically improve productivity**. These systems work **across temperature zones** for food, dairy, nutrition, beverage and confectionery products.

This site brings the **latest systems architectures** and **leading experts** together under one roof and equips them with **sophisticated robotics, advanced sorting systems** and **data analysis** using **machine learning**.

Automated technology maximizes team productivity. The digitally-enabled workplace uses tools and skills for the next generation workforce that **reduce repetition** and **improve efficiency**. This enables the customer to become an employer of choice, attracting the best people to come and work with the automation.



600,000+

sq. ft. distribution center with ambient storage

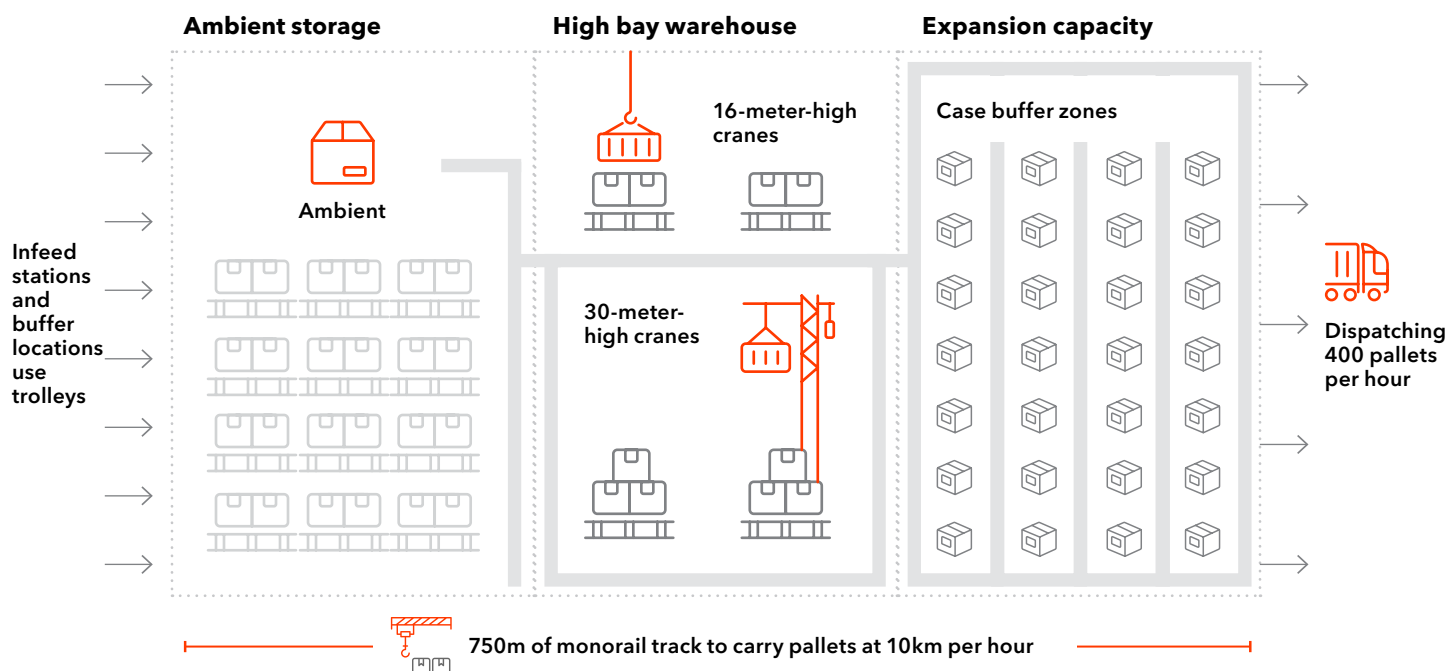


Custom automation, **robotic** and intelligent technology



Rainwater harvesting and environmentally-friendly refrigeration

A warehouse designed for efficiency and scale



Pioneering sustainability

The warehouse was designed and constructed with **sustainability** at the forefront. From its location close to a rail hub to reduce reliance on road transport to the site's leading BREEAM certification, GXO delivered a pioneering warehousing solution to support the customer's demanding **ESG goals**.

Environmentally friendly solutions are devised to **reduce energy and water consumption** as well as CO2 emissions. These include an efficient

ammonia refrigeration system, a lighting system comprised of 100% low-energy LEDs and a rainwater harvesting system to fulfill some of the site's water needs. What's more, the operational design and processes ensure **economy of motion** in terms of people and automation, as well as removing redundant vehicle movements, **cutting emissions and fuel consumption**.



100%

LED lighting system that reduces power consumption

Results

The center has driven significant improvements for the customer since it opened in terms of **productivity** and **accuracy**, and it has **cut overall waste by more than half**.

All of the solutions combined enable the company to be **more responsive** and **agile** in how it supplies a host of products under a **wide range of conditions** – as well as allowing the company to **personalize services** for their customers.

GXO's long-term relationship with the customer enabled the **collaborative approach** that led to both their **innovative design** and the **integration of new technologies** that continue to advance their business.



2.1M

pallets handled in a calendar year



Co-packing technology has allowed the company to **personalize services**



The sustainability solutions have reduced overall waste by

60%

Learn more

To see how GXO drives innovation through the supply chain, visit **GXO.com**.