

# Cold storage solutions

Transforming worker conditions with technology

Careful and clever cold storage is key to preserving food safety and preventing waste.

Worldwide the cold storage market is worth

USD **94 billion\***

It is set to expand between 2018 and 2025 by

over **12 percent\***

(compound annual growth rate)

\* Grand View Research 'Cold Storage Market Size, Share & Trends Analysis Report' [www.grandviewresearch.com/industry-analysis/cold-storage-market](http://www.grandviewresearch.com/industry-analysis/cold-storage-market)

## THE COLD STORE

### It's a challenging environment

With a number of issues for staff:



Labeling problems



Air-con noise



Inaccurate input



Screen condensation



Pen ink issues



Sub-zero temperatures

## Finding a solution

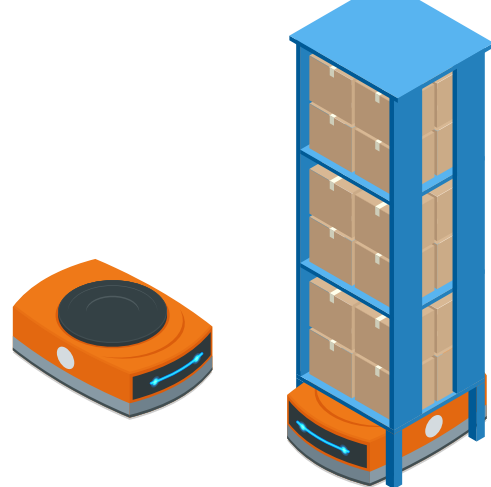


#### Voice-directed work (VDW)

- ✓ Order selection
- ✓ Put-away
- ✓ Replenishment
- ✓ Cycle counting
- ✓ Returns

#### Robotics and automation

- ✓ Moving to different picking points
- ✓ Pushing carts
- ✓ Finding the correct pick path
- ✓ Picking up heavy items



#### AMR (autonomous mobile robots)

These work with people on the warehouse floor, bringing the product – or a unit of products – to the person.



#### AGV (automated guided vehicles)

Automated vehicles, such as forklift trucks, move continuously along fixed paths to shuttle materials from one point to another.

## Key benefits

#### Voice-directed working

- Condensation-proof
- Temperature resistant to -30°C
- Ear protection
- Long-lasting battery



**35% increase in productivity**



**25% improvement in accuracy**



**Reduction in Inaccurate inputs**



**Air-conditioning noise reduced**

#### Robotics and automation

- Temperature resistant to -25°C
- Removes humans from the cold



**Capacity**



**Efficiency**



**Productivity**

## What does the future hold?

A combination of AMR and VDW could eliminate the need for workers to step into a freezer, while streamlining operations and processes.

#### Further innovations will be needed to:

- Facilitate improved supply chain traceability
- Support “continuity of conditions” in facilities and vehicles
- Improve safety and comfort to attract and retain labor

**“The future of working conditions in warehouses is robots doing the dirty, ugly and dangerous jobs.”**

**Anton Du Preez**  
Group Sales Director, Körber Voice



**To learn more about how technology can help your cold storage workers, download our latest whitepaper.**

[Read more on Körber Voice solutions](#)

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