

New Smart Cold Aisle Inventory



Article Overview

Smart cold aisle inventory systems leverage automation, IoT, and drones to optimize cold storage efficiency, accuracy, and safety.

Automated Cold Chain Warehousing

Companies like NewCold provide highly automated cold storage solutions with integrated technology for end-to-end supply chain management. Their warehouses feature energy-efficient systems, real-time inventory tracking, and seamless ERP integration, enabling precise control over temperature, humidity, and stock rotation while minimizing operational costs and waste. These systems are designed to handle large-scale operations, supporting millions of pallet positions across multiple continents.

IoT-Enabled Smart Cold Storage

IoT technology plays a pivotal role in modern cold storage by connecting sensors, actuators, and analytics platforms. Smart sensors continuously monitor temperature, humidity, and light levels, automatically adjusting conditions or alerting personnel when anomalies occur. This reduces spoilage, ensures food safety, and enables predictive maintenance of refrigeration units. IoT also optimizes energy usage by regulating compressor cycles and defrost schedules based on real-time demand, potentially reducing energy consumption by up to 30%. RFID tags and smart sensors enhance inventory accuracy and timely stock rotation.

Drone-Based Inventory Management...

Article Content

Vertiv SmartAisle Containment

Vertiv™ SmartAisle™ – A form of containment proven to lead to substantial savings in energy costs Achieved energy savings

AI and robotics in cold chain logistics: Overcoming the barriers to ...

The integration of artificial intelligence into cold chain inventory management has transformed operational capabilities. Modern

Retail, Rewired

Peek inside Walmart's AI-powered retail engine and see how everyday innovation is transforming every aisle, app and

Connected Cold Chain Warehousing with IoT | 2025 Guide

Discover how IoT is transforming cold chain warehouses in 2025-enabling predictive maintenance, smart energy use,

Cold chain logistics & Advanced automated warehouse

NewCold offers food companies highly automated and sustainable cold storage and cold chain logistics solutions. Explore our global

An AI-IoT Inventory Management Approach to Optimize Cold Storage ...

This study aims to develop an Artificial Intelligence (AI)-and IoT (Internet of Things)-based inventory management

Smart Inventory System: How It Works, Benefits, Use Cases

Smart inventory management system: benefits, key techs, real-life use cases from global market giants. By

Smart Aisle System | edtgroup

Covering cold aisles using the Smart Aisle system secures trouble-free cooling management in the space and increases the security

SmartAisle | Faulkner Haynes & Associates

SmartAisle The SmartAisle offering optimizes infrastructure deployment and management with an intelligent row-based system that

Smart Aisle | Vertiv IT Infrastructure

The SmartAisle offering optimizes infrastructure deployment and management with an intelligent row-based system that integrates

Cold chain logistics & Advanced automated warehouse

Our technology totally reshapes cold chain logistics as it is formed with the latest advances in automation

Smart Cold Chain Logistics with IoT and AI

Learn how IoT sensors and AI are transforming cold chain logistics with real-time monitoring, predictive maintenance,

SmartAisle

The SmartAisle offering optimizes infrastructure deployment and management with an intelligent row-based system that integrates

Corvus Robotics launches autonomous inventory drone for sub-zero cold ...

Corvus Robotics has launched an autonomous drone designed for sub-zero warehouses, helping cold chain

Smart Cold Storage Inventory with Digital Labels

With digital labeling, the availability of freezer compartments and walk-in cold storage units can be visualized in real

Smart Cold Storage @ AJEEVI

Inventory Tracking and Management: Precise inventory tracking with IoT sensors and RFID tags prevents wastage and ensures

Gather AI Expands Inventory Intelligence Solution into Freezer & Cold ...

Today inventory intelligence solution Gather AI announces its expansion into freezer and cold storage warehouse

IoT in the Aisles: Future-Proofing Supermarket Cooling Systems

By unifying temperature, asset health, energy performance, and predictive insights into a single platform, it transforms

Smart Cold Storage: How IoT Cuts Losses and Keeps Inventory Safe

Learn how IoT in Cold Storage helps businesses reduce product loss, improve safety, and boost efficiency. Explore

Vertiv Liebert SmartAisle | Electronic Support Systems

The Vertiv Liebert Intelligent SmartAisle Containment Solution holds supply air in the cold aisle requiring

Inside Corvus Robotics' new drone system for frozen warehouses

Corvus One for Cold Chain is a drone-based inventory system designed to operate autonomously in freezer

Smart Cold Storage and Inventory Monitoring System

Internet of things technology is adopted in every field. Our proposed Smart cold storage and inventory monitoring system uses

An AI-IoT Inventory Management Approach to Optimize Cold Storage ...

The suggested solution includes an inventory management model and application that alerts retail managers to quickly

How Smart Technology is Transforming Cold Storage

The cold storage industry is evolving faster than ever, and much of that progress is being driven by technology. As food safety

The role of smart packaging in cold chain logistics

The advent of smart packaging is transforming the way cold chain logistics operate, providing unprecedented levels

Contact Us

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