

# Walk into the next-generation warehouse

Explore where you can unlock value and optimize your operations, with human-centric, AI-powered Lenovo solutions



**Smarter  
technology  
for all**

**Lenovo**



**The modern warehouse is fast, adaptable, and intelligent.** With our unified portfolio of AI-powered, human-centric solutions, Lenovo is helping manufacturers and logistics businesses grasp the opportunity.

Lenovo Manufacturing Solutions—Warehouse Automation combines automation, robotics, and AI to orchestrate every process in the warehouse—to reduce costs, accelerate operations, and help you keep up with the demands of your customers.

With a comprehensive portfolio of solutions, services, infrastructure, and devices, we work with you as an end-to-end partner, with global services and support to help you start small, scale fast, and build your operations to fit your precise needs.

Take a look through our solutions—and see the ambition of an automated, smart, efficient warehouse come to life.





# Lenovo Manufacturing Solutions—Warehouse Automation

Our integrated solutions provide intelligence, flexibility, and reliability across every part of your warehouse. Each can work independently but operate at their best as part of a unified ecosystem, enabling you to automate and optimize warehouse operations from end to end.



## Warehouse Execution System (WES)

As the unified command center for warehouse coordination, the Lenovo WES focus on real-time coordination and optimization of material handling tasks, while making it easy to integrate automation resources from different brands into one platform.

- Stop shutdowns in their tracks with real-time monitoring and exception handling
- Increase operational efficiency by over 10% with AI-powered orchestration
- Get control and transparency with centralized dashboards and workflow automation
- Deploy fast and avoid disruption, thanks to in-built integration with WMS/ERP/MES

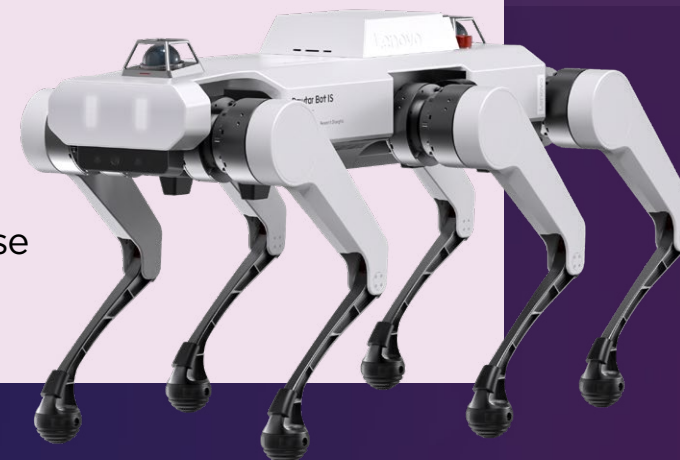


## Lenovo Robotic Inspection

The Lenovo Daystar robot delivers high mobility and smart inspection everywhere within the industrial environment. The robot can be deployed in warehouses to perform 24/7 inspections for fire hazards and safety violations, while dynamically monitoring environmental conditions to ensure compliance with goods storage requirements.



- Complete inspections and patrol with autonomous navigation and diverse pretrained small-models
- Analyze real-time data for AI-powered predictive maintenance and safety monitoring
- Ensure durability and performance in all-terrain complex environment with innovative design
- Support collaboration, simulation, and data visualization with metaverse ready software



## Pick Assist AMR

### Smarter collaboration between people and robots

Utilize the most advanced “order to person” human-robot collaborative mode, to eliminate the need for manual route planning, warehouse design or human intervention.

- Deploy instantly with plug-and-play automation that adapts to your workflow
- Scale flexibly with an on-demand or subscription-based fleet
- Maximize performance with AI-driven Smart Packing, Advanced Planning, and Optimal Material Assignment

Save  
**50%-80%**  
on labor costs

Reach ROI within  
**10-24**  
months



## Automated Guided Forklift (AGF)

Revolutionize intralogistics operations, leveraging advanced technologies like this innovative forklift that streamlines the entire pallet handling process from unloading to high-level put away.

- Streamline truck loading, unloading, and high-level picking with driverless operation
- Boost efficiency by continually optimizing routes with AI analysis
- Improve safety and consistency with continuous, precise autonomous performance

Increase transfer efficiency by

**30%**

Reach ROI in

**1-3**  
years



## Automated Storage and Retrieval System (AS/RS)

Offer high density, flexibility and scalability in stereo warehouse and combine all kinds of robotics with intelligent AI algorithms to unleash the potential of precise and agile pallet movement.

- Manage and control inventory and scheduling dynamically with AI
- Customize to fit high-density or high-selectivity warehouse configurations
- Optimize space utilization and performance

Increase transfer efficiency by

**200%**

Achieve ROI within

**3**  
years



# Taking your infrastructure to the edge

Modern warehouses need powerful, secure, and scalable infrastructure to turn data into intelligence. Lenovo provides the foundation to perform in harsh environments and optimized for AI-driven workloads.



## Lenovo ThinkEdge

With rugged reliability, Lenovo ThinkEdge servers bring intelligence closer to where your data is generated, for real-time decisions and smarter processing.



## AI-Optimized Infrastructure and Ecosystem

With over 165+ AI-ready solutions, Lenovo enables tailored, end-to-end applications—from computer vision and audio recognition to predictive analytics, security, and virtual assistants, all backed by Lenovo's AI-optimized infrastructure. These energy-efficient Edge-to-Cloud platforms are purpose-built to tackle any AI workload, empowering you to scale and accelerate your AI journey with confidence.

# Build your progress on intelligent devices

Lenovo smart devices help you connect, collaborate, and operate across every part of your warehouse.



## Lenovo ThinkPad

Built on relentless innovation, our latest ThinkPad devices help your workforce stay productive anywhere.



## Lenovo ThinkCentre

Our proven, enterprise-class desktops combine proven performance and security with flexible design, plus the reliability and power to support analytics as well as day-to-day operations.



## Lenovo ThinkStation

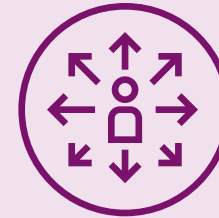
Put power behind every innovation, with the speed and power to handle complex modeling and AI workloads. Ensure consistent performance even in demanding environments, to keep the most intensive operations running smoothly.



# One partner, one journey

With Lenovo, you can build every level of your smart warehouse with the same partner. We provide all of the solutions, services, infrastructure and devices which you can access through a single contract to help you manage your spend easily.

Through Lenovo TruScale, you can buy, deploy and manage all of it, fully integrated out of the box—helping you innovate without limits.



## Full lifecycle services

Wherever you start from, we help you take each step confidently, from consulting on current operations to deploying and managing smart warehouse solutions. You can go after your goals, while we take care of the top-quality tech.



## The right tools for today and tomorrow

As well as being a leading solution provider, we are also a manufacturer ourselves. This means we understand industry challenges. By partnering with us, you get first access to cutting-edge products at an affordable price—wherever you need them.



By connecting its existing Warehouse Management System (WMS and Warehouse Control System (WCS) with the new WES, Lenovo empowered ST Logistics to automate its entire order processing system—from receiving to shipping—across its warehouses.

Today, the automation solution powers a fleet of autonomous robots that pick and transport good from different workstations across ST Logistics' warehouses. At the same time, the WES leverages AI algorithms to automatically calculate how to prioritize storage of goods so items that are ready for immediate shipping are always easily accessible.



## Results

Up to

**40%**

faster order  
processing

**30%**

efficiency and  
productivity  
improvement

**30%**

reduction  
in energy  
consumption

**24/7**

continuous  
operation  
enabled



# Ready to smarten up?

It doesn't matter where you are on the road to automation in your warehouse. Our experts can help to understand your setup, work with your teams to build a roadmap that works for your people, and scale automation at your pace.

Discover how Lenovo can help you realize your ambitions for efficiency, productivity, and global growth today.

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