

# BROCHURE

Full-stack intralogistics robotics  
built for scale and complexity

**GALAXIS TECHNOLOGY**

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# 01

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# RESULTS

1600+  
Projects

362+  
Patents

860  
Customers

181+  
Software copyright

19+  
Countries & Regions

29+  
Industries

## GALAXIS TECHNOLOGY

### FULL-STACK INTRALOGISTICS ROBOTICS FOR SCALE AND COMPLEXITY

GALAXIS TECHNOLOGY is an intelligent intralogistics robotics expert dedicated to redefining supply chain operations through cutting-edge embodied AI robotics technologies. We offer a full suite of robots centered on three core product lines: Multi-directional Shuttle Robots (MSR), Autonomous Mobile Robots (AMR), and Conveyor & Sorting Robots (CSR). These solutions deliver the essential intralogistics functions of storage/retrieval, sorting, and material handling, covering the entire spectrum of warehouse operations

We rank among the few companies globally with full-stack robotics capabilities and a comprehensive portfolio of self-developed robots that cover all core intralogistics functions across all height and payload specifications. Our core technological advantage stems from deep R&D in logistics-specific AI and control systems. Our unique closed-loop architecture enables seamless integration of perception, decision-making, execution, and feedback, delivering exceptional performance in complex logistics environments





## Business Footprint

China · East Asia · Southeast Asia · Oceania · Europe · Middle East · North America · South America

## Subsidiaries ●

Mainland China · Hong Kong, China · Hamburg, Germany

## Partners & Distributors ●

United States · United Kingdom · Hong Kong, China · Taiwan, China · South Korea · Japan · Thailand · Vietnam · Indonesia · Singapore · Malaysia · Australia · Israel · Philippines · United Arab Emirates · Saudi Arabia · Brazil · Czech Republic · Canada

# GALAXIS



Automotive



Manufacturing



New Energy



EC



Fashion

# 02

GLOBAL SERVICE



03

## RESEARCH AND DEVELOPMENT





## Jiaxing | Zhejiang Province

R&D and manufacturing of Tote MSR / Pallet MSR / Lifts  
AMR R&D and manufacturing

## Wuhu | Anhui Province

New energy logistics system R&D center and manufacturing base  
CSR system manufacturing base  
Stacker crane system manufacturing base

## Wuhan | Hubei Province

Artificial Intelligence Research Institute  
Software R&D center

## Dongguan | Guangdong Province

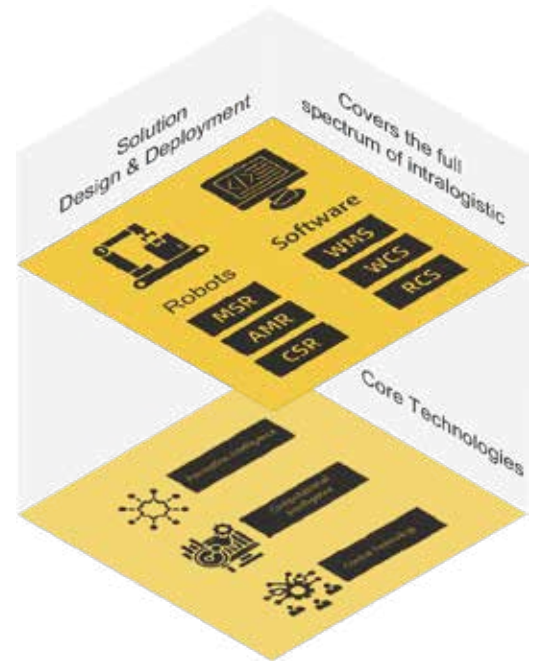
New energy equipment R&D center and manufacturing base

## Guangzhou | Guangdong Province

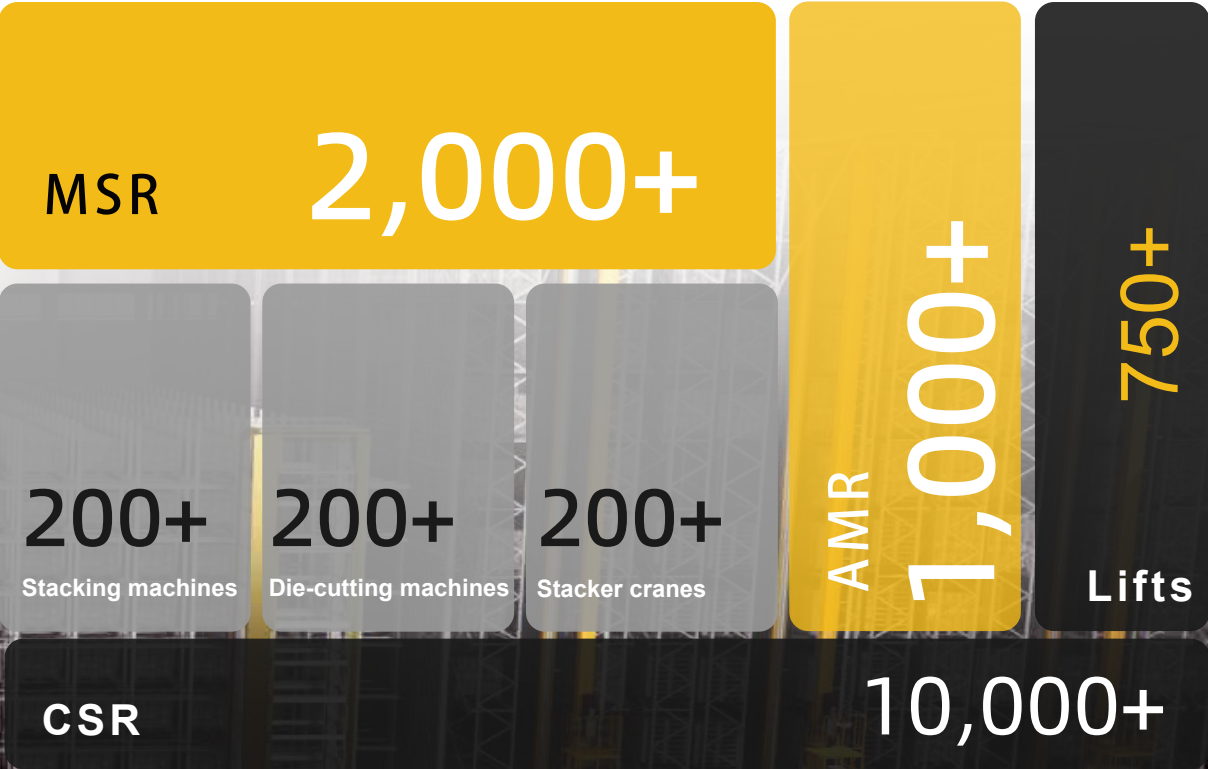
AMR robotics R&D center

## Wuxi | Jiangsu Province

MSR robotics R&D center



## Annual Comprehensive Production Capacity \*Unit



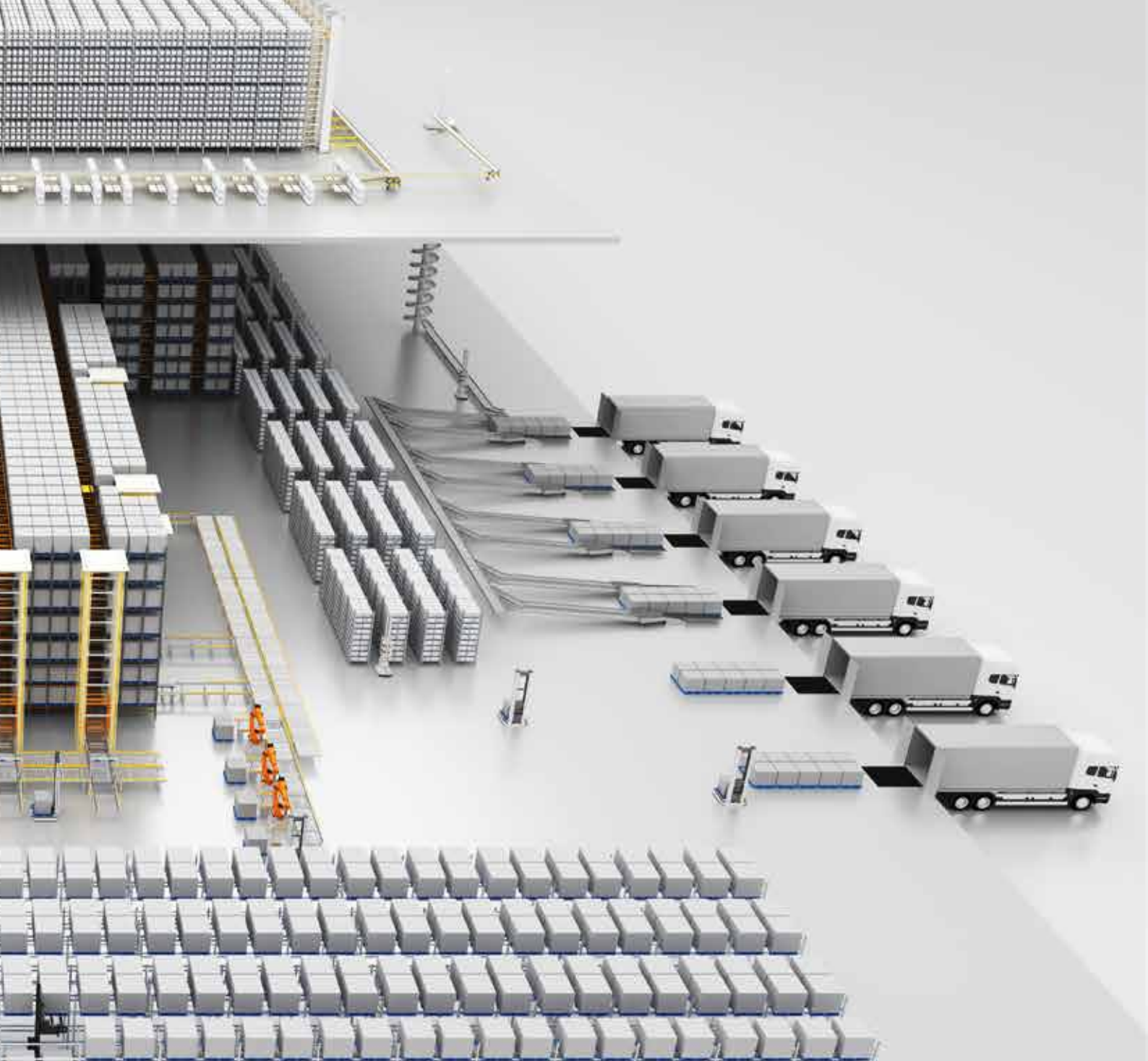


# 4 SOLUTION

Providing solutions designed to meet the requirements of customers from all industries

**MSR-MAX** — Engineered to Optimize Space Utilization

**All-the-Picking** — Designed to Enable Efficient Order Fulfillment



## STORAGE - MAX

The STORAGE - MAX solution . With “high flexibility and high density” as its core advantages, the ability of GALAXIS MSR robots to move freely at any position within the racking system, enabling a new generation of dense storage solutions that maximize the use of building space

- Tote STORAGE - MAX solution: designed for totes, cartons, and other small to medium-sized containers
- Pallet STORAGE - MAX solution: designed for pallets and heavy goods up to 2 tons

## ALL THE PICKING

All-the-Picking solution focuses on high-efficiency and dynamic order execution within the warehouse. It covers a broad range of operating scenarios and supports varying efficiency requirements and business workflows

- Tote-to-Person Solution: A “goods-to-person” mode that minimizes operators walking, significantly improving picking efficiency and accuracy
- VFR-RUSH Solution: Integrates multiple VFR products for coordinated operation, enabling highly flexible and agile automated warehouse processes

# > Tote MSR-MAX



## Tote MSR-MAX

### Solution

- Deployment in irregular spaces
- Unrestricted by fixed aisles, enabling free movement
- Robot fleet size can be increased progressively
- Variable-spacing forks compatible with multiple container sizes

### Customer Pain Points

- Insufficient utilization of building space
- Preference for phased equipment investment
- Difficulties in system expansion following business growth
- Storage challenges for containers of different sizes

## Solution Features

The solution minimizes aisle space to maximize three-dimensional storage capacity. While achieving high density storage, it also maintains high inbound and outbound throughput. With a unique three-dimensional layout without fixed aisles and densely arranged racks, shuttles change levels via lifts and move freely within a planar grid, enabling customers to achieve maximum space utilization in warehouses of various shapes with a minimal number of devices

# > Pallet MSR - MAX



## Pallet MSR-MAX

### Solution

Deployment in irregular spaces

Free movement without being constrained by fixed aisles, with intelligent channel-based zoning management

Supports multiple strategies including FIFO and LIFO

Underride lifting mode unaffected by variations in pallet length and width

### Customer Pain Points

Insufficient utilization of building space

Preference for phased equipment investment

Significant challenges in managing material information across multiple owners

High diversity in container sizes

## Solution Features

This solution simultaneously overcomes the three major challenges of warehouse logistics—density, efficiency, and flexibility, providing an ultimate planning option for modern large-scale distribution centers and smart factories. It minimizes the impact of equipment operating aisles on storage space utilization and better adapts to irregularly shaped warehouses, allowing rack layouts to “route around” columns and other obstacles so that corner and residual areas can be fully utilized

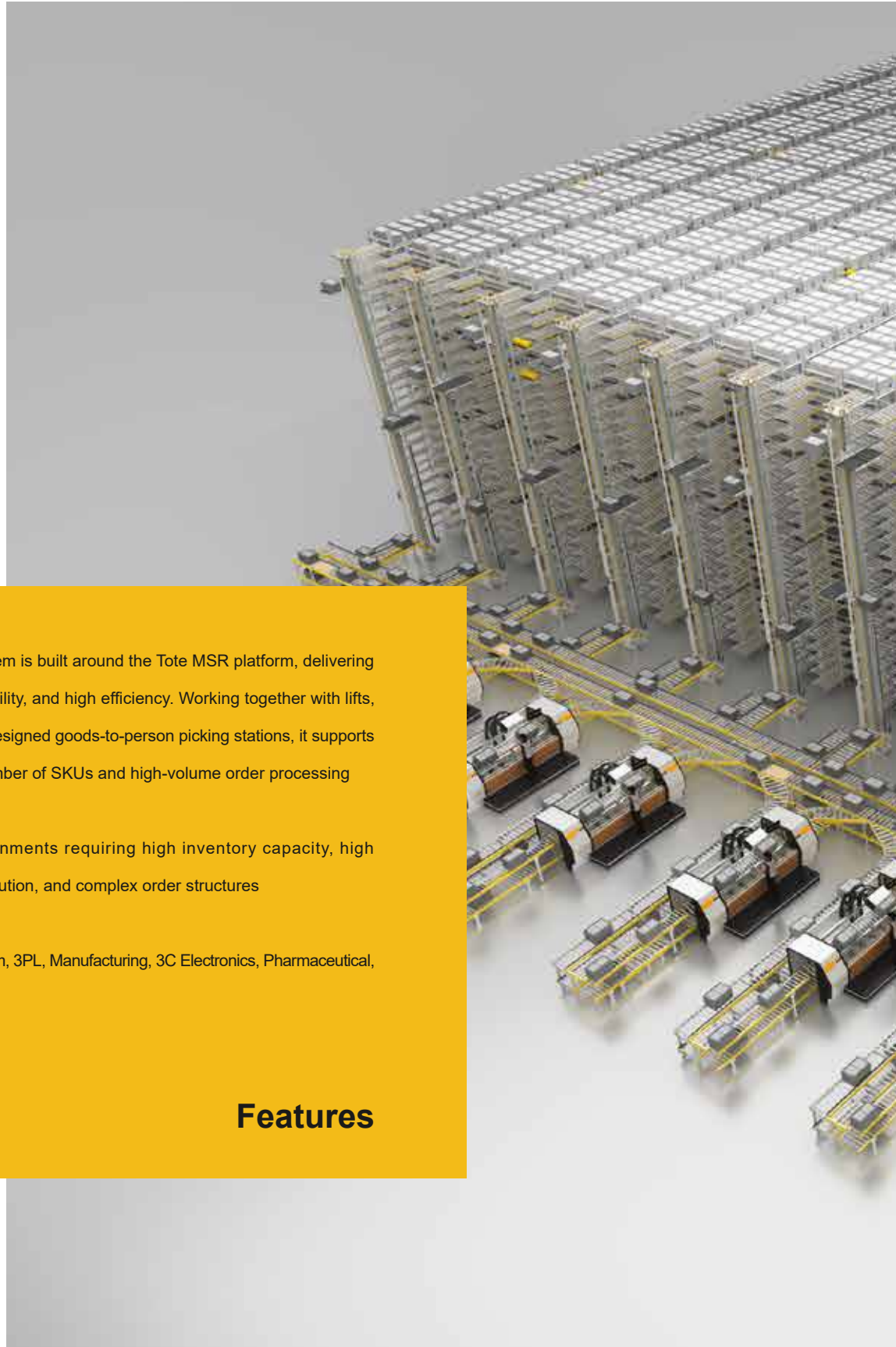
# > PICKING - MAX

GALAXIS PICKING - MAX system is built around the Tote MSR platform, delivering high-density storage, high flexibility, and high efficiency. Working together with lifts, conveyors, and ergonomically designed goods-to-person picking stations, it supports operations involving a large number of SKUs and high-volume order processing

Application scenarios: environments requiring high inventory capacity, high throughput, dynamic order execution, and complex order structures

Applicable industries: Retail, E-com, 3PL, Manufacturing, 3C Electronics, Pharmaceutical, Fashion

## Features











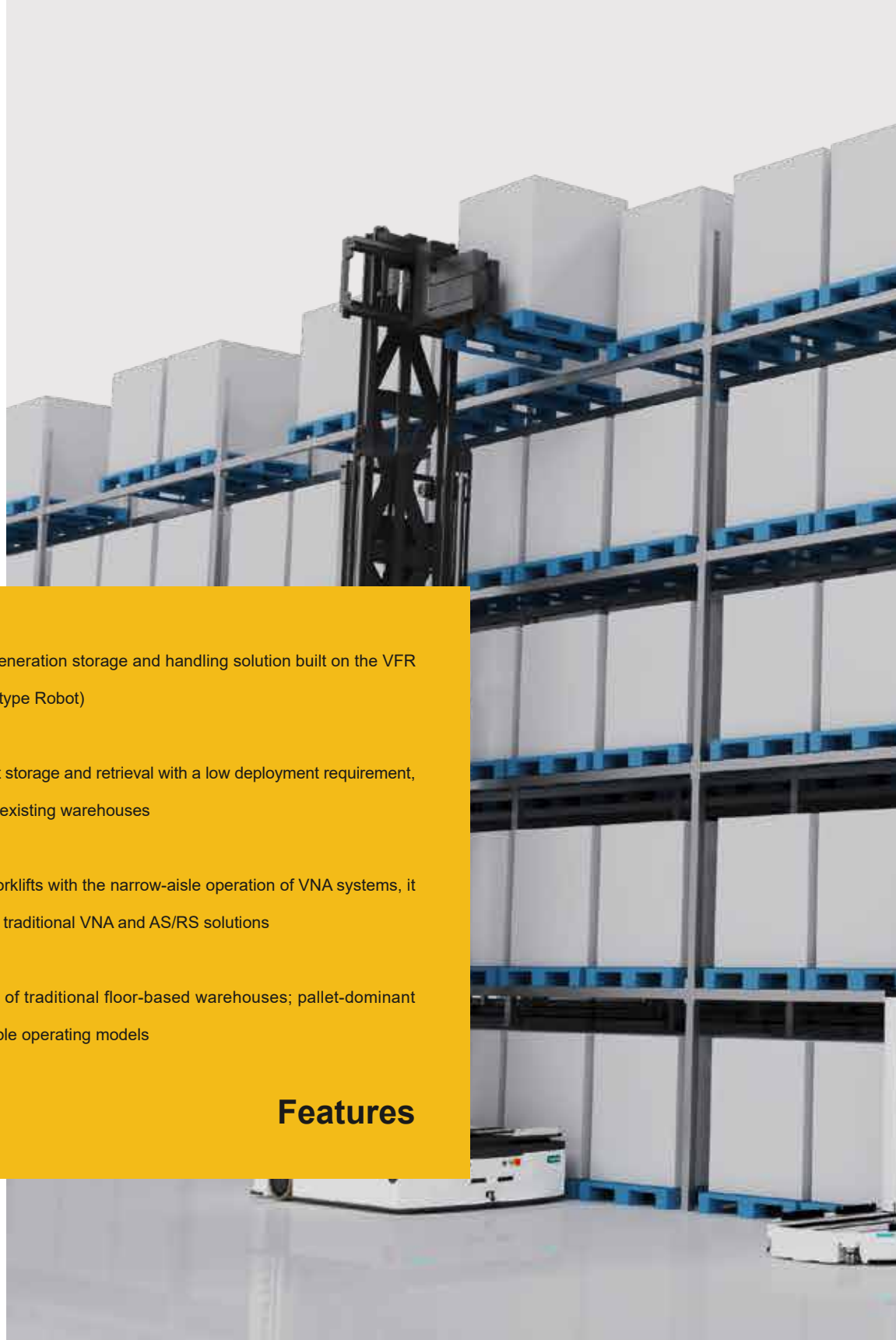
## Customer Pain Points

-  **Low space utilization**  
Poor warehouse layout results in inefficient use of storage capacity
-  **Order surge pressure**  
Manual operations cannot handle peak events, causing backlogs and shipping errors
-  **High labor and error costs**  
Heavy reliance on manual work leads to low efficiency and high rework/return costs
-  **Low digitalization**  
Paper or Excel-based processes result in delays and isolated data

## Advantage

-  **Lean operations**  
Fewer staff needed for the same order volume, lowering labor costs
-  **Smarter inventory and wave planning**  
Reducing order splitting, parcel counts, and packaging consumption
-  **Faster and more accurate fulfillment**  
Processing speed increases 2–3×, supporting peak demand and ensuring on-time delivery
-  **Accuracy approaching 99.99%**  
End-to-end digital checks cut errors below 0.1%, reducing complaints and returns
-  **Scalable for business growth**  
Flexible expansion without major reconstruction, supporting continuous scaling
-  **Optimize Management and Training**  
New employees can be onboarded quickly, reducing management complexity and enabling scalable team expansion

# > VFR-RUSH Solution



VFR-RUSH system is a next-generation storage and handling solution built on the VFR series (Very-narrow-aisle Fork-type Robot)

It enables fully automated pallet storage and retrieval with a low deployment requirement, which is suitable for upgrading existing warehouses

By combining the flexibility of forklifts with the narrow-aisle operation of VNA systems, it becomes an alternative to both traditional VNA and AS/RS solutions

Application scenarios: Retrofit of traditional floor-based warehouses; pallet-dominant handling with high-volume, stable operating models

## Features



## Customer Pain Points



### Low space utilization

Traditional warehouses rely on counterbalanced forklifts requiring aisles wider than 3.5 m, leading to storage utilization below 50%



### Labor management challenges

High training costs and turnover for VNA forklift operators, coupled with operational risks and complex workforce management



### Frequent operational errors

The efficiency of human-driven forklifts is variable; inventory accuracy is low, and response times are slow



### High safety risks

Forklift operations pose significant risks, including collisions and the potential for falling goods

## Advantage



### Lower overall cost

Increase storage capacity as an alternative to warehouse expansion or relocation, thereby releasing variable personnel expenses for reinvestment in fixed assets

Reduces dependence on high-cost forklift operators and converts variable labor expenses into fixed cost

Enables 24/7 operation with stable throughput, shortening order fulfillment cycles



### Higher operational efficiency

Integrates with WMS/ERP for accurate goods traceability and picking accuracy above 99.99%

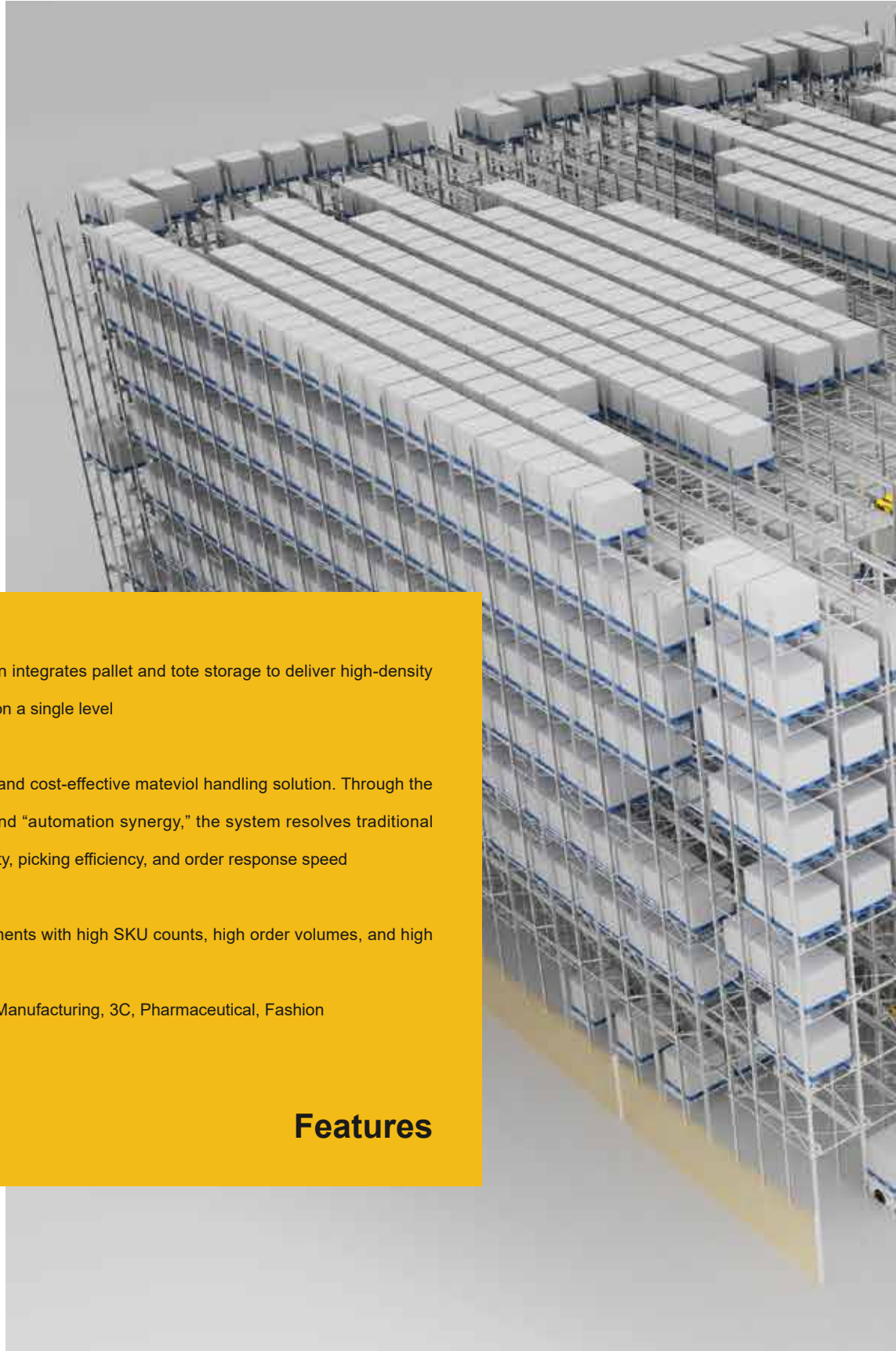
VFR requires minimal warehouse modification, enables rapid deployment, and allow flexible path adjustments



### Improved safety and quality

Freeing workers from dangerous and repetitive tasks, smooth and precise automated operation reduces product damage

# > Storage-MAX



GALAXIS Storage-MAX solution integrates pallet and tote storage to deliver high-density racking with multi-SKU picking on a single level

AMRs provide a highly flexible and cost-effective material handling solution. Through the concepts of “space-for-time” and “automation synergy,” the system resolves traditional conflicts between storage density, picking efficiency, and order response speed

Application scenarios: environments with high SKU counts, high order volumes, and high timeliness requirements

Industries: Retail, E-com, 3PL, Manufacturing, 3C, Pharmaceutical, Fashion

## Features



## Customer Pain Points

### ⚠️ LOW Accuracy

Manual searching and picking lead to avoidable mistakes and rising variable costs

### 🏠 Business period

Fixed-capacity automation is underutilized in off-peaks seasons and insufficient during peaks

### 🚫 Space constraints

Growing order volume with limited warehouse area makes expansion costly and difficult

## Advantages

### ⚙️ Cost Effective

Higher storage density reduces rental cost; automation cuts 40–60% of picking labor and lowers management overhead

### 🕒 Higher efficiency

Picking efficiency improves 3 to 5 times; faster order processing boosts throughput within the same footprint and supports 24/7 operation

### ⚙️ Increasing flexibility

Flexible to demand, scalable through additional AMRs, and fully digitized to support accurate inventory and reducing reliance on labor



## WMS

GALAXIS provides a flexible and efficient warehouse management system delivering end-to-end control across inbound/outbound operations, internal movements, and real-time inventory. With features such as batch tracking, material matching, and synchronized inventory updates, the WMS ensures accurate, consistent data flow across all operations while supporting large-scale order processing and adaptable warehouse workflows



## WCS

GALAXIS WCS coordinates multiple robotic and automation systems to sustain overall throughput. Supporting both cloud and on-premise deployment, it manages end-to-end warehouse and factory operations, including GALAXIS subsystems and third-party equipment. Through optimized task allocation and path planning, WCS ensures efficient collaboration among conveyors, stacker cranes, shuttles, robots, and AMRs

### GALAXIS Software Architecture Overview

Operations	built on a mature and stable system foundation
Execution	highly scalable with broad adaptability across diverse workflows
Control	fully equipped to support multi-industry intralogistics applications



## RCS

GALAXIS RCS enables large-scale cluster scheduling for intelligent intralogistics robots, supporting both 2D and 3D path planning and optimal route calculation. Powered by AI-based algorithms, it dynamically adapts to order patterns and business forecasts, optimizing task allocation, inventory distribution, and robot routing. Unified communication protocols allow stable, high-efficiency control of over 1,000 robots operating simultaneously

# Intelligent Software System

## **GALAXIS AI**

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- **Perception Intelligence**

GALAXIS Perception Intelligence — PI

Perception Intelligence (PI) leverages GALAXIS's proprietary super-resolution model, object recognition, environmental perception, personnel safety, and image learning algorithms to form an intelligent perception platform. This platform enables robots to comprehensively sense their environment, dynamically adapt to variations in paths, racks, and goods, and ensure safe and efficient human-robot collaboration even in complex operational scenarios. The technology has fully integrated across our MSR, VFR, and CSR product lines, enabling them to execute complex tasks with exceptional precision and reliability



- **Computational Intelligence**

**GALAXIS Computational Intelligence — CI**

GALAXIS Computational Intelligence (CI) is a business-driven algorithmic framework designed to address the operational demands of diverse industries. Leveraging our extensive on-site experience, deep cross-industry insights, and proprietary digital twin technology, CI enables seamless coordination and control among robotic products within an integrated operational ecosystem. By optimizing real-world operational data, CI enhances task orchestration between robotic systems and enterprise-level platforms, improving workflow efficiency while reducing implementation risks



- **Control Technology**



**GALAXIS Control Technology — CT**

GALAXIS Control Technology (CT) is an independently developed next-generation control framework that goes beyond conventional PLC-level architectures. It enables real-time monitoring and control of all robotic motion modules, ensuring operational stability even in highly complex environments. By dynamically adjusting motion trajectories through real-time feedback, and integrating Model Predictive Control (MPC), remote diagnostics, and digital twin monitoring, CT delivers online algorithm tuning, predictive maintenance, and rapid system recovery—ensuring long-term reliability and consistent performance

## ► Fashion Industry – Mobi Garden

As a pioneer in China's camping industry, Mobi Garden is one of the earliest factories in the country fully dedicated to the production of camping products. To keep pace with rapidly growing business demand, Mobi Garden has carefully designed and implemented a comprehensive smart assembly and warehousing integration project in Quzhou, significantly enhancing smart assembly capabilities and expanding logistics and storage capacity

### Customer Pain Points

-  Supports both B2B and B2C operations, with built-in flexibility for seasonal peaks and promotional surges
-  Fast product turnover and high return rates, making in-warehouse circulation difficult

### Solution

-  Integrates MSR, VFR, AMR, and other robotic systems to build a complete and efficient logistics operation ecosystem
-  Supports diverse storage methods, combining pallets and totes
-  Supports both B2B and B2C operations, while handling peak demand during seasonal changes or promotions



Before

VS

After



Need more space to keep inventory



Traditional picking



Difficult to respond to peaks



Storage



Efficiency



Flexibility



High-density locations: >28,000;  
AMR storage: >18,000



To-C ↑ 50% ;  
To-B ↑ 30%







Seamless switching  
between B2B and B2C

## ► Pharmaceutical Industry – Dashenlin






To address the warehousing and distribution challenges arising from rapid store expansion, Dashenlin is advancing the high-quality development of its regional distribution centers by aligning with broader delivery coverage and the ongoing shift toward digitalized, intelligent logistics. Centered on a three-tier warehouse network — Group DC, Provincial DC and Regional DC — the company promotes high-quality regional warehouse development while integrating digitalization and intelligent systems

### Customer Pain Points

-  Imbalanced business structure: B2B dominates while B2C potential remains underexploited
-  Insufficient workforce and warehouse capacity, with semi-automated operations reaching their limits
-  Lagging logistics planning, unable to support business expansion requirements
-  Digitalization needs to be upgraded, and efficiency, accuracy and cost need to be optimized

### Solution

-  Modular configuration and flexible storage to unlock B2C potential
-  Dual-mode intelligent picking to overcome operational limits
-  End-to-end process optimization to support business expansion

Before

VS

After



Business expansion, insufficient warehouse capacity



Complex inventory; frequent shipping errors



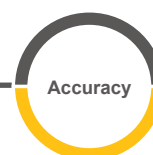
High manual operation error rate



Storage Capacity



Efficiency



Accuracy



Over 300,000 cases, supporting 0.79B USD annual sales



48-hour nationwide store delivery





Up to 99.99%




## ► Food Industry – FreeNow

Fino, a phenomenon-level plant-based beverage brand, has reshaped Chinese consumers' perceptions of coffee and tea drinks with its signature coconut-based products. Its production base in Tongxiang faced challenges in warehousing, efficiency, and order processing. GALAXIS supported Fino with an intelligent Four-Way Pallet MSR solution, enabling the company to quickly, steadily, and accurately seize market opportunities

### Customer Pain Points

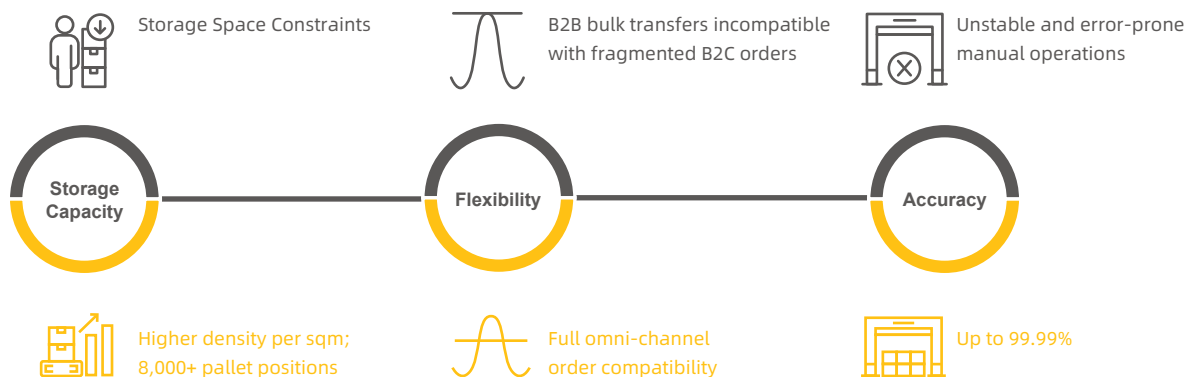
-  Insufficient storage capacity, bottlenecks in inbound/outbound efficiency, and complex multi-channel order processing
-  Rapid business growth driving exponential demand for warehousing and supply chain efficiency

### Solution

-  An intelligent four-way pallet robot solution for integrated "Factory Production + Finished-goods Distribution"
-  Flexible fulfillment supporting both B2B and B2C orders
-  Full-process automation with 24/7 continuous operation



Before  
VS  
After






# ► Automotive Industry – FAW Jiefang







As a key element of FAW Jiefang's smart manufacturing strategy, the Smart Logistics Center delivers efficient, intelligent logistics services. With its large scale and advanced automation technologies, it stands as a benchmark project in the automotive industry

## Customer Pain Points

-  Rapid business growth driving increased demand for material storage and retrieval
-  Large SKUs variety causing low coordination efficiency between production lines and material supply
-  Manual processes resulting in low picking efficiency, high labor costs, and frequent errors

## Solution

-  Integrated logistics system combining stacker cranes, shuttles, and lifts to optimize internal material flow
-  Hybrid storage supporting multiple container types and sizes
-  Flexible system architecture with device-level redundancy for higher reliability
-  Unified data source and standardized information framework for seamless coordination

Before



Limited warehouse capacity



Low efficiency with manual picking



Non-standard equipment made maintenance difficult; single-point failures caused downtime

VS



Capacity doubled; inbound /outbound throughput increased by more than 10 times



Goods-to-person model improves efficiency by 50%






Supports 24/7 continuous, reliable operation

After



## ► EC Industry – Quectel

The Quectel Logistics Center adopts a modular, efficient, lean, and intelligent design to enhance and streamline material management processes. It enables fast, accurate, and traceable material handling across the entire operation

### Customer Pain Points

-  Need for refined slotting management and real-time status visibility
-  Full automation required to support production lines
-  Need to optimize resource allocation and control operational costs

### Solution

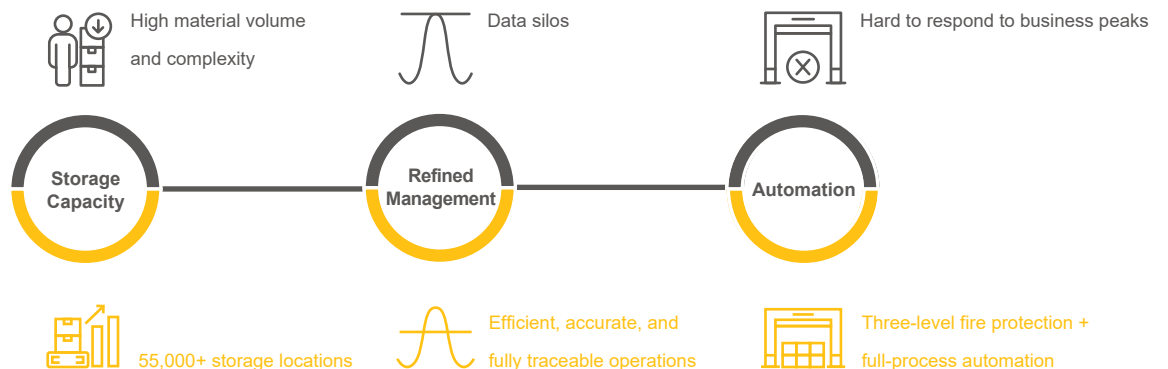
-  Modular configuration with MSR tote-handling robots
-  Integrated WCS + OES solution enabling full-process monitoring and traceability of warehouse operations



Before

VS

After






## ► EC Industry – OPPO






As OPPO' s first automated warehouse exceeding 20 meters in height, the facility integrates intelligent manufacturing, automated storage, and hardware R&D, establishing the company' s largest production hub worldwide

### Customer Pain Points

-  Fast product iterations and order fluctuations causing delays and inventory buildup
-  Low coordination between material handling and production lines, resulting in fragmented data flows
-  Traditional warehousing with high labor costs and limited efficiency gains

### Solution

-  MSR + AMR "goods-to-person" intelligent solution
-  Dual-mode storage and retrieval for higher space utilization
-  Flexible interfaces reserved for future scenario expansion

Before

VS

After



Low utilization, wasted space



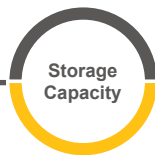
Insufficient storage slots



Data fragmented across processes



Space Utilization



Storage Capacity



Digitalization



45,000m<sup>2</sup> floor area saved; utilization improved 7–8×



7,000+ pallet positions; 50,000+ tote positions; 100% storage demand met






Integrated "smart manufacturing + automated warehousing" solution




## ► Retail – BFL Group

Together with GALAXIS, BFL has built an 18-meter-high smart logistics center in Dubai. The highly flexible automation solution supports rapid e-commerce growth and stands out among global competitors, enabling end-to-end efficiency upgrades across the logistics chain

### Customer Pain Points

-  High storage density and flexibility are essential
-  Harsh working conditions, high labor costs
-  Strong seasonal fluctuations cause surges in inbound, outbound, and returns operations

### Solution

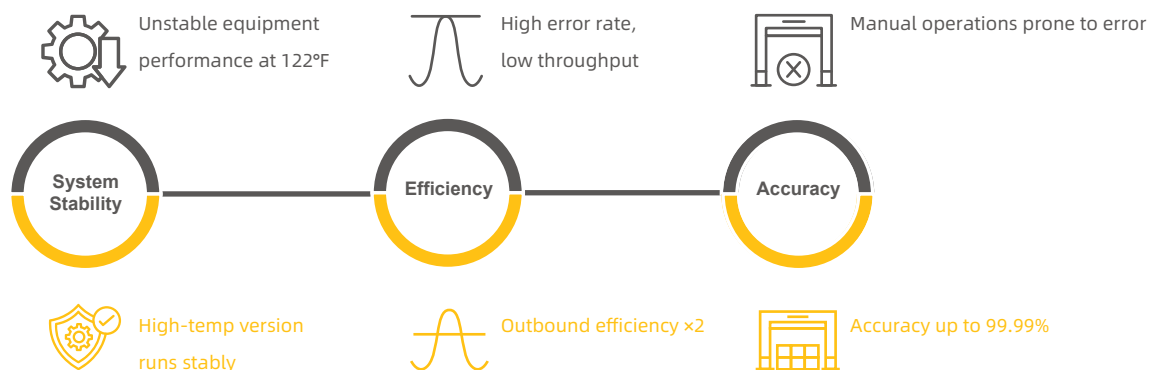
-  Modular with MSR tote-handling robots
-  Transitioned from “person-to-goods” to “goods-to-person” model
-  Black-box testing to detect functional vulnerabilities and enhance system reliability



Before

VS

After






## ► Manufacturing – TENGEN Electric






With over 30 years of industry experience, TENGEN launched its smart logistics center to accelerate intelligent manufacturing and drive high-quality growth

### Customer Pain Points

-  Over 5,000 order lines per day handled inefficiently using traditional logistics methods
-  Over 50,000 SKUs of varying sizes, poor space utilization
-  Heavy reliance on manual picking and checking, leading to high labor costs

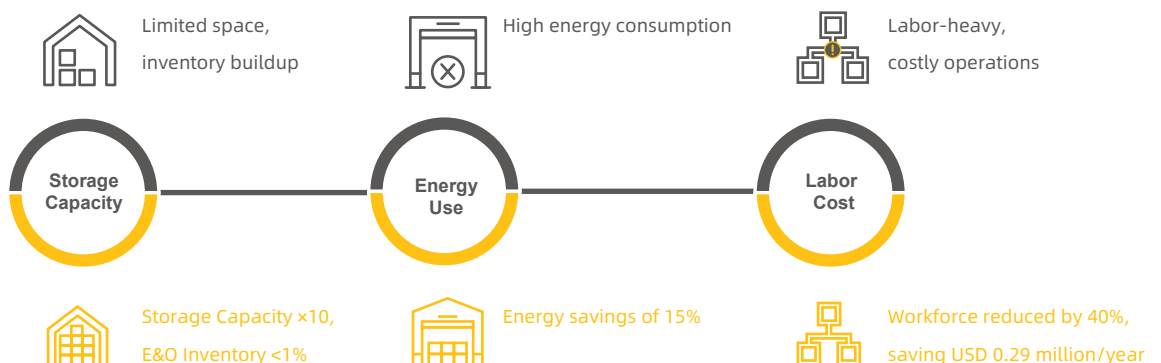
### Solution

-  MSR + AMR "goods-to-person" smart logistics solution
-  Dual-mode storage for better space use
-  Flexible interfaces for scalable future expansion

Before

VS

After



# 07

## SERVICE AND SUPPORT

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With the concept of "high-quality service and professional support", GALAXIS has established perfect after-sales service standard, so that clients can efficiently use the logistics system and equipment provided by GALAXIS

GALAXIS strives for perfection, prepares flexible solutions for clients, and wholeheartedly provides clients with professional, efficient and reliable after-sales service support





### • Consultation & Solution Design

Comprehensive assessment of customer needs  
Development of detailed intralogistics solution designs



### • System Development

Customized software development tailored to project needs  
Integration of all required functions  
Workflow and business logic planning



### • Product Manufacturing

Robot configuration adapted to the operating environment  
Secondary development and manufacturing as needed



### • Implementation & Delivery

Equipment installation and commissioning  
System testing  
End-to-end solution deployment



### • Operational Coaching

Comprehensive training and operational guidance  
Maximizing the value of the deployed system



### • Lifecycle Management

Full-spectrum after-sales service and long-term support

## Committed to Sustainable Growth — Advancing Energy Efficiency & Environmental Responsibility

AT GALAXIS

WE PRIORITIZE ESG PRINCIPLES

TO FOSTER A SUSTAINABLE ECOSYSTEM

WITH EMPLOYEES, PARTNERS, AND CUSTOMERS



### Environmental Responsibility

Certified to ISO 14001 and other recognized environmental standards, GALAXIS integrates sustainable practices throughout the entire lifecycle—from R&D to final delivery—while actively reducing its carbon footprint through green packaging, optimized energy consumption, and responsible waste management



### Social Responsibility

GALAXIS is committed to a people-first philosophy, fostering an inclusive, safe, and healthy workplace while maintaining employee retention rates above 85%. The company consistently respects and protects the rights, well-being, and professional development of every employee



### Governance Responsibility

GALAXIS upholds strong governance principles by building a high-standard corporate governance framework, integrating environmental considerations into supplier selection, and collaborating with partners to develop a reliable, responsible, and environmentally conscious supply chain



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