GALAXIS
— 02729.HK —

BROCHURE

Making logistics more intelligent
Making the world more efficient

GALAXIS TECHNOLOGY

EXPLORE >

01

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PROJECT REFERENCES



ABOUT US

1600+
Projects

860+
Customers

31
Countries & Regions

30
Industries

GALAXIS TECHNOLOGY

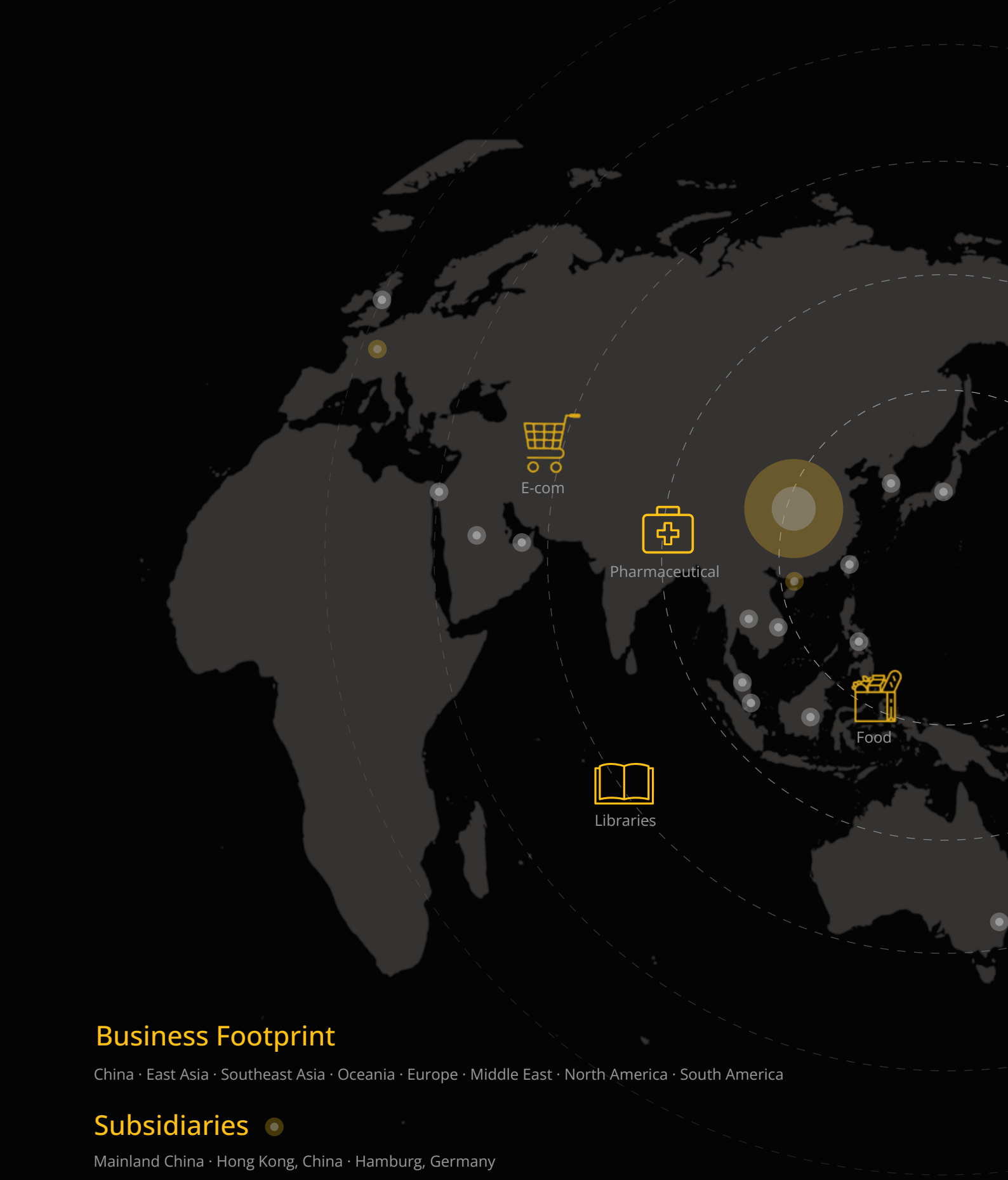
FULL-STACK INTRALOGISTICS ROBOTICS FOR SCALE AND COMPLEXITY

GALAXIS TECHNOLOGY is an intelligent intralogistics robotics provider focused on advancing automation in modern warehouse operations. We offer a diverse range of robots built around three core product lines: multi-directional shuttle robots (MSRs), autonomous mobile robots (AMRs), and conveying and sorting robots (CSRs). Its robotics portfolio spans the full spectrum of intralogistics operations, covering the core functions of storage, transport, and sorting.

As an established player in the intelligent intralogistics robotics industry, GALAXIS combines broad robotics capabilities with a diverse portfolio of self-developed products. Its solutions support a wide range of height and payload specifications, enabling flexible deployment across various application scenarios. Leveraging strong system design and integration expertise, GALAXIS integrates advanced robotics with intelligent software to deliver flexible and scalable automation solutions. These solutions enhance operational efficiency, improve system reliability, reduce costs, and adapt to evolving business needs. Our solutions transform traditional warehouses into intelligent facilities capable of meeting the dynamic demands of contemporary commerce, while significantly reducing reliance on manual labor and rigid infrastructure.

Through sustained investment in R&D, GALAXIS has established a comprehensive intellectual property portfolio, including invention patents, utility models, and design patents. Over the years, we built extensive experience in delivering integrated intralogistics solutions across multiple industries. Through large-scale implementations, GALAXIS has developed a systematic approach to solution design and deployment, seamlessly integrating robotics and software systems to address the inherent complexity of modern intralogistics operations, earning strong recognition from customers in manufacturing and distribution sectors.





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 · Austria · New Zealand · Chile

GALAXIS



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

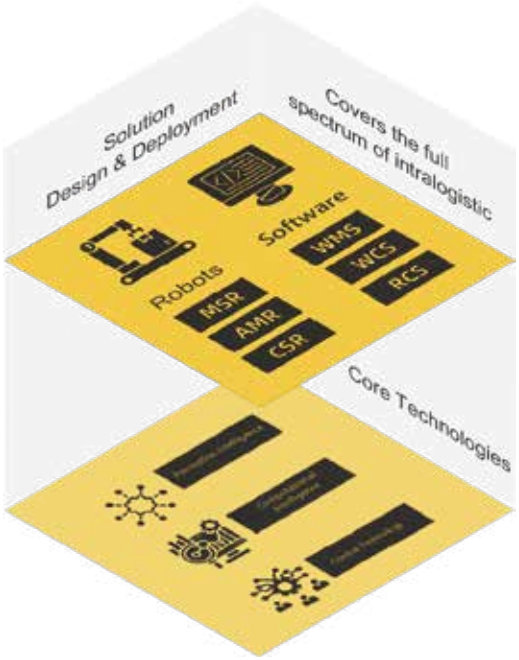
New energy equipment R&D center and manufacturing base

Guangzhou | Guangdong Province

AMR robotics R&D center

Wuxi | Jiangsu Province

MSR robotics R&D center



Annual Comprehensive Production Capacity

*Unit/Per Year

MSR 2,000+

1000+ Stacking machines

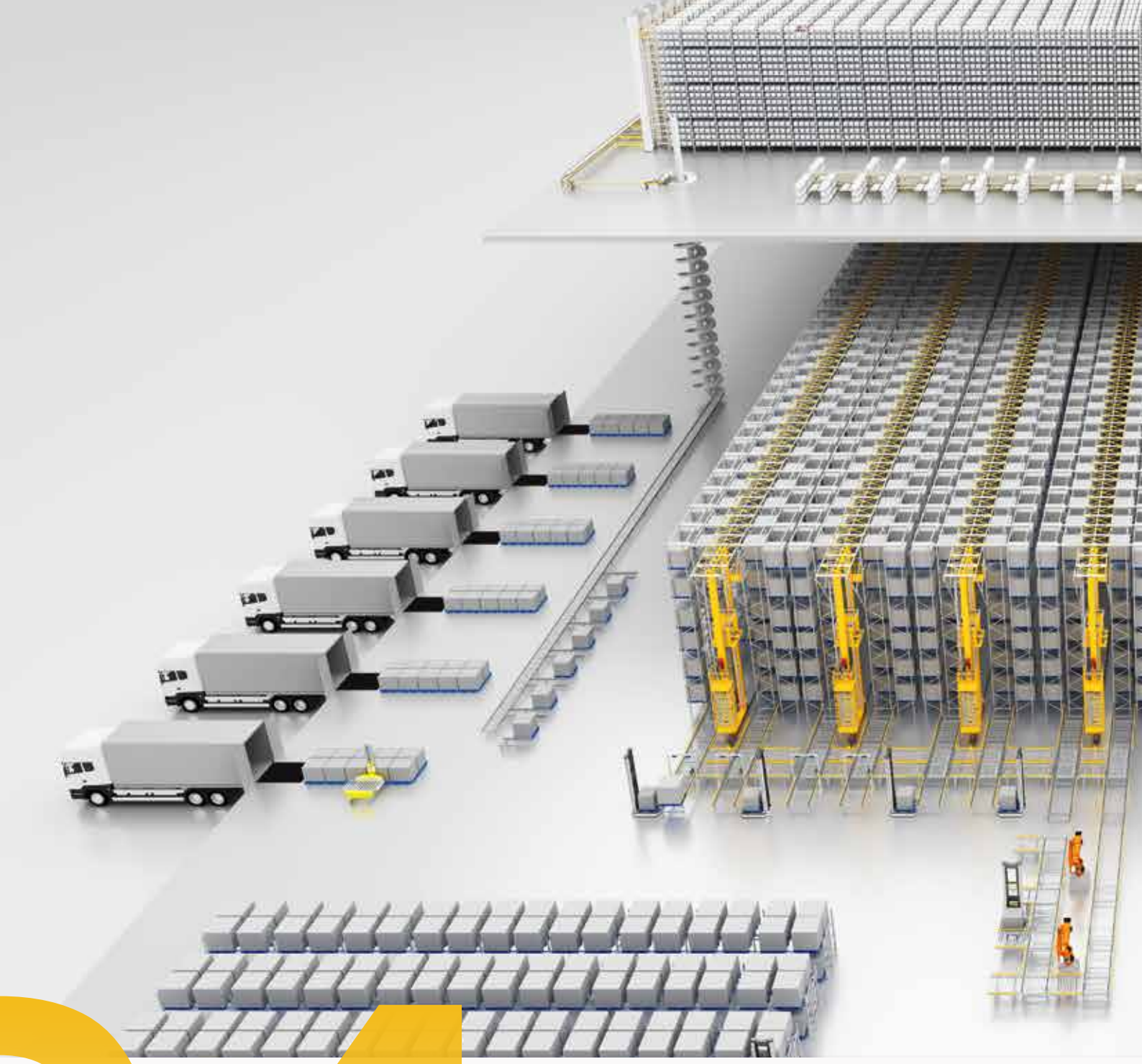
1000+ Die-cutting machines

1000+ Stacker cranes

AMR 1,500+

1000+ **Lifts**

CSR 10,000+



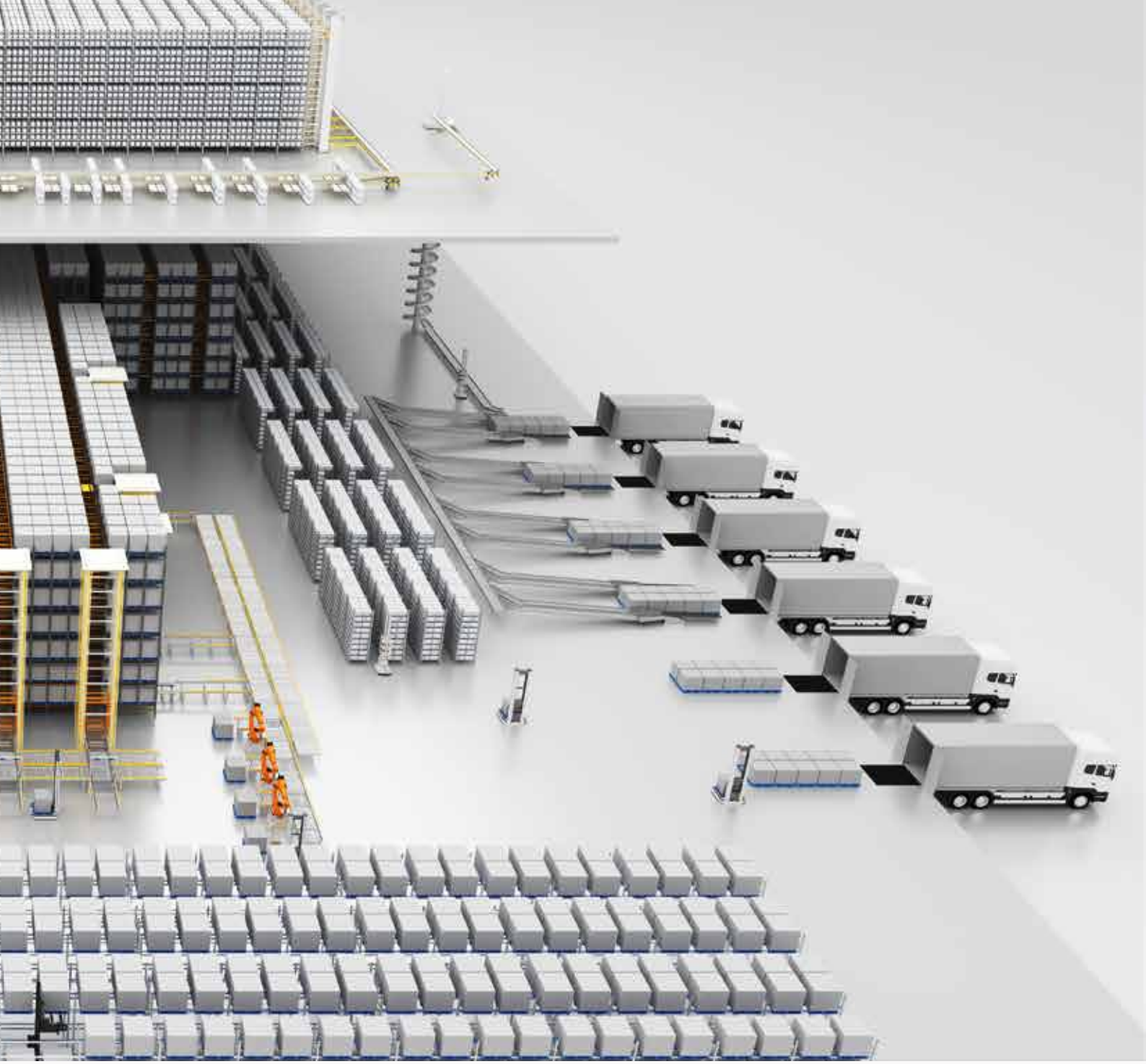
04

SOLUTION

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

MSR-MAX — To Optimize Space Utilization

All-the-Picking — Built for Efficient Order Fulfillment



MSR - MAX

Built around GALAXIS MSR robots, MSR-MAX combines high-density storage with operational flexibility. MSR can travel freely within the racking system, making more effective use of available building space

- Tote-MSR MAX: For totes, cartons and other small- to medium-sized containers
- Pallet-MSR MAX: For pallets and heavy loads

ALL THE PICKING

All-the-Picking focuses on efficient, dynamic order fulfillment across different operational workflows and throughput requirements

- Picking-MAX: A “goods-to-person” mode that minimizes operators walking, significantly improving picking efficiency and accuracy
- VFR-RUSH: Integrates multiple VFR products for coordinated operation, enabling highly flexible and agile automated warehouse processes
- Storage-MAX: Integrates pallet and tote storage with flexible AMR handling to combine high-density storage, multi-SKU picking, and fast order response within a single-level layout

Tote MSR-MAX



Tote MSR-MAX

Solution

High-density storage with reduced fixed aisle requirements

Flexible, phased system expansion to match business growth

Integrated storage, buffering, and sequencing workflows

Compatible with multiple tote, carton and container formats

Customer Pain Points

Low space utilization with fixed-aisle racking

Limited scalability for future capacity growth

High upfront capital expenditure for full-scale automation deployment

Poor compatibility with mixed container sizes

Solution

Tote MSR-MAX minimizes aisle requirements to maximize three-dimensional storage capacity while maintaining high inbound and outbound throughput. Its dense racking layout does not rely on fixed operating aisles. Robots change levels via lifts and move freely across a horizontal grid, enabling high space utilization in warehouses of varying shapes with a relatively small robot fleet.

Pallet MSR - MAX



Pallet MSR-MAX

Value Creation

Adaptable deployment in irregularly shaped spaces

Free movement without fixed-aisle constraints

Intelligent aisle-based zone management

Support for multiple inventory strategies, including FIFO and LIFO

Underride lifting that accommodates variations in pallet length and width

Customer Pain Points

Low space utilization

Reluctance to make a large upfront equipment investment

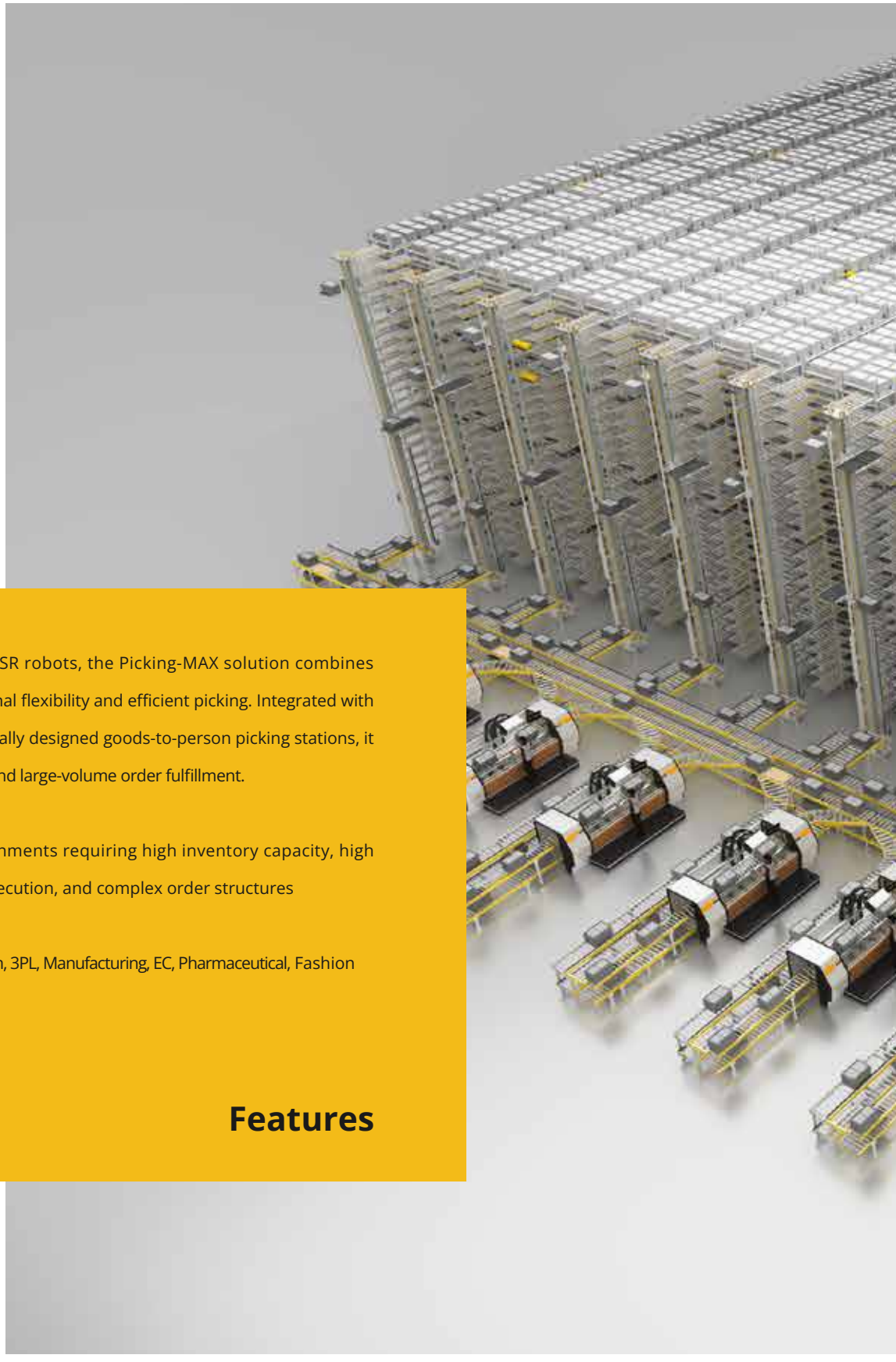
Complex inventory information management across multiple owners

Variations in load carrier dimensions

Solution

Pallet MSR-MAX balances storage density, operating efficiency and flexibility for large distribution centers and smart factories. By reducing the space needed for equipment travel, the system makes better use of irregular warehouse layouts and can route around columns and other obstacles. Additional robots can increase throughput without requiring new dedicated aisles or sacrificing storage locations.

PICKING - MAX



Built around GALAXIS Tote MSR robots, the Picking-MAX solution combines high-density storage, operational flexibility and efficient picking. Integrated with lifts, conveyors and ergonomically designed goods-to-person picking stations, it supports high-SKU operations and large-volume order fulfillment.

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

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

Features



Customer Pain Points

Low space utilization

Inefficient warehouse layouts, low space utilization

Order surge pressure

Manual processes struggle with surges during major promotions, causing backlogs and shipping errors

High labor and error costs

Heavy reliance on manual operations increases rework, returns, customer complaints and other hidden costs

Low digitalization

Paper or Excel-based processes result in delays and create information silos

Advantage

Lean warehouse operation

Handle the same order volume with fewer workers and lower labor costs

Smarter inventory and wave planning

Reducing order splitting, parcel counts, and packaging consumption

Faster Order Fulfillment

Increase order processing speed by 2–3 times and respond to promotional peaks more effectively, supporting the delivery commitments

Accuracy approaching 100%

End-to-end digital checks cut errors below 0.1%, reducing complaints and returns

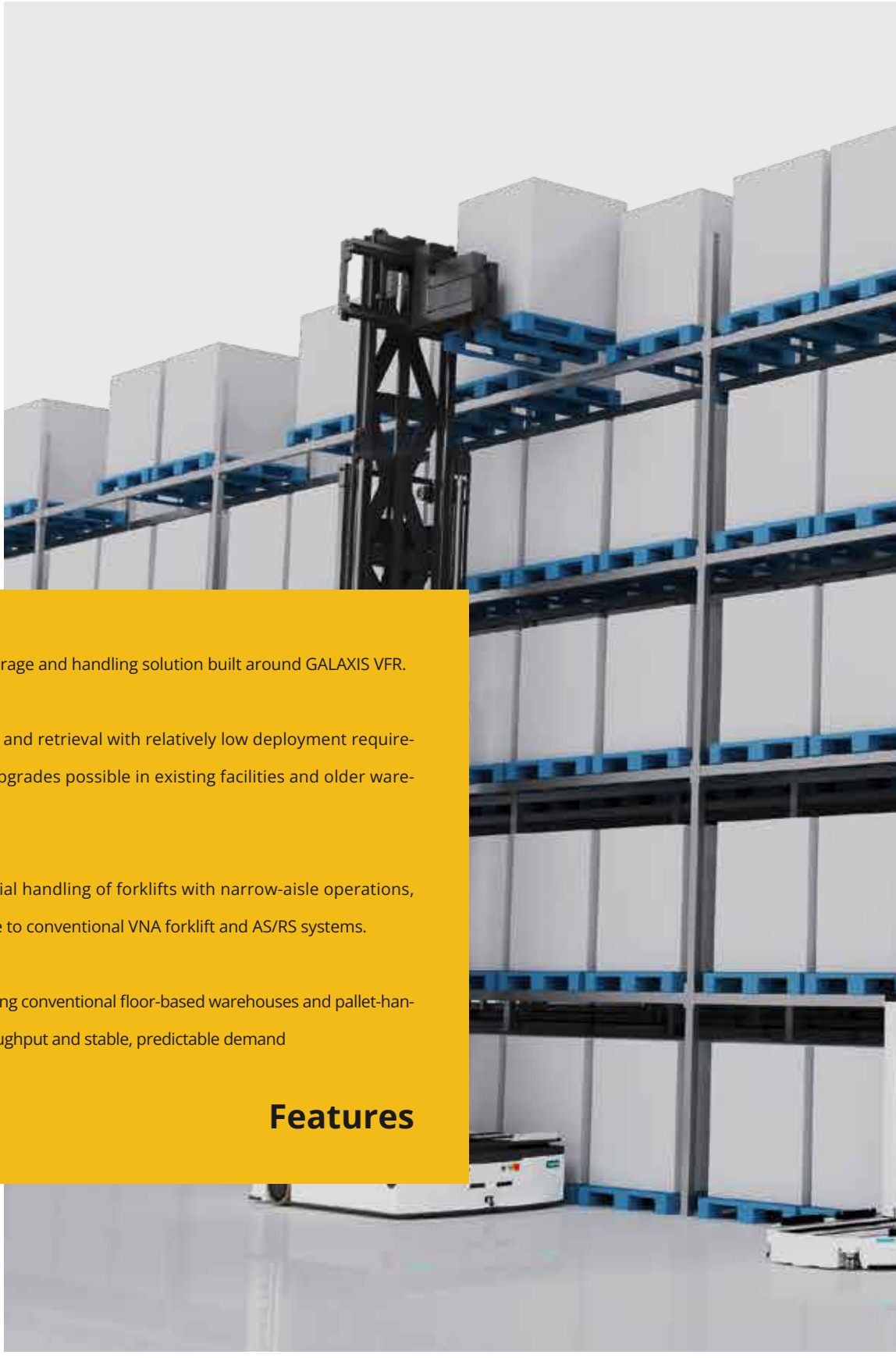
Scalable for business growth

Expand capacity without rebuilding the existing system, supporting business growth

Optimize Management and Training

Streamlined workflows help new employees become operational after basic training and reduce management complexity

VFR-RUSH



VFR-RUSH is an automated storage and handling solution built around GALAXIS VFR.

It enables unmanned storage and retrieval with relatively low deployment requirements, making automation upgrades possible in existing facilities and older warehouses.

Combining the flexible material handling of forklifts with narrow-aisle operations, VFR-RUSH offers an alternative to conventional VNA forklift and AS/RS systems.

Application Scenarios: Retrofitting conventional floor-based warehouses and pallet-handling operations with high throughput and stable, predictable demand

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

Manual forklift productivity varies, and inventory counts can be inaccurate or delayed

Safety Risks

Forklift operations carry risks of collisions, falling loads and other incidents

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

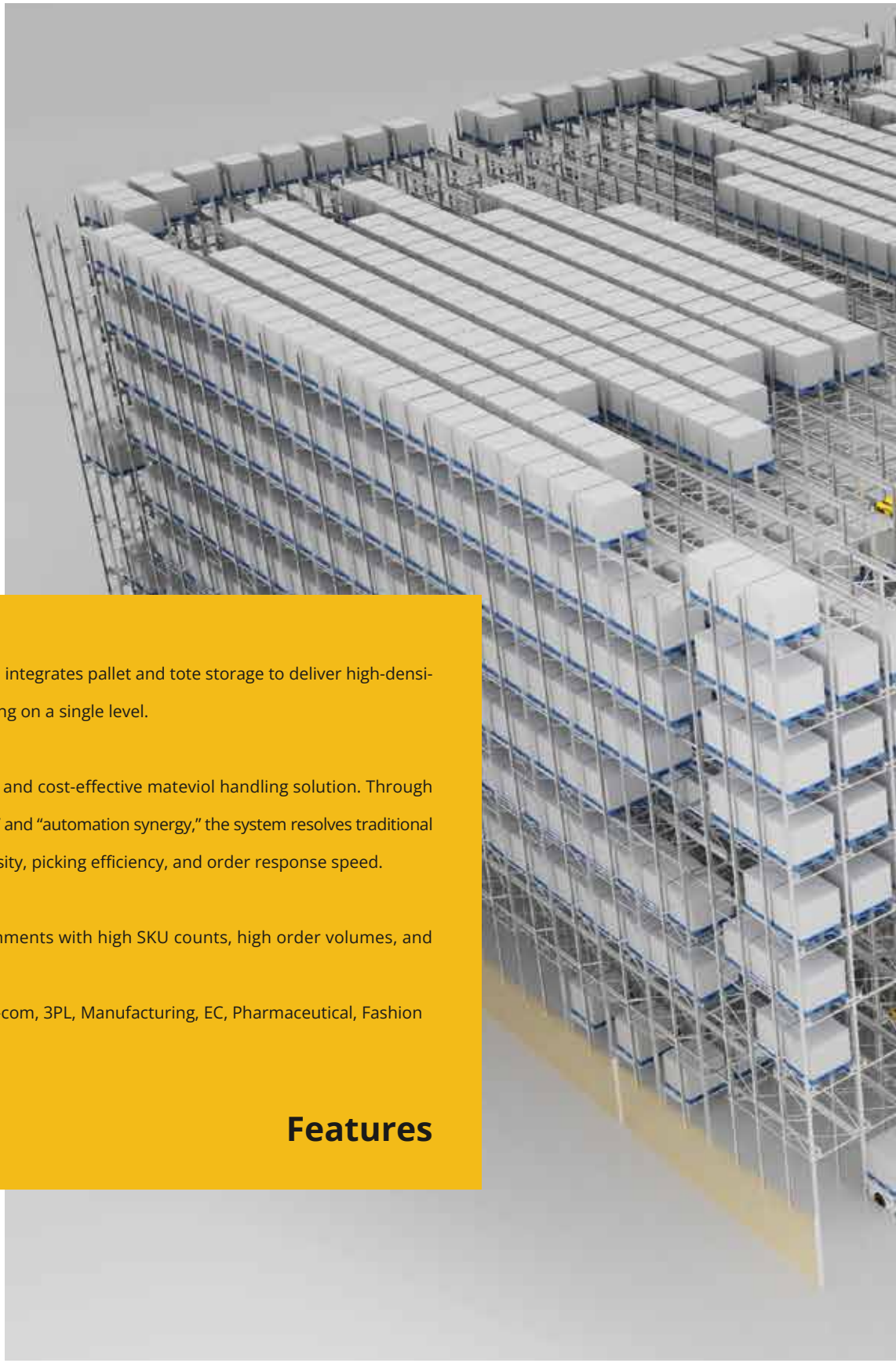
Integrates with WMS/ERP for accurate goods traceability and picking accuracy above 99.99%

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

Improved safety and quality

Reduces exposure to repetitive, high-risk tasks. Consistent, precise automated handling helps reduce 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 mateviol 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

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

Features



Customer Pain Points

Low Accuracy

Manual locating and picking lead to errors

Demand Fluctuations

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

Increased storage density lowers unit storage costs. Picking labor requirements can be reduced by 40–60%

Higher efficiency

Picking productivity can improve by 3–5 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 reduce 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

05

Intelligent Software System

06

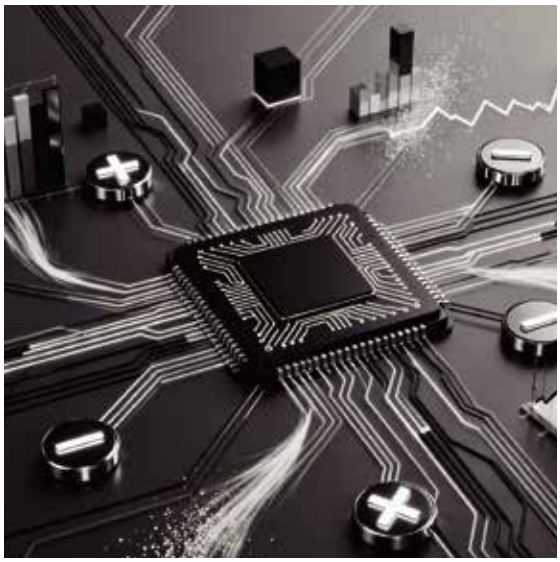
GALAXIS AI



- **Perception Intelligence**

GALAXIS Perception Intelligence —— PI

Perception Intelligence (PI) leverages GALAXIS's proprietary 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

Mobi Garden, one of China' s early camping equipment manufacturers, implemented an integrated intelligent assembly and warehousing project to support rapid business growth. The project strengthens assembly automation and expands warehousing and logistics capacity

Customer Pain Points

- Coexisting B2B and B2C operations create complex fulfillment workflows
- Frequent product launches and high return volumes complicate inventory turnover

Solution

- Integrates MSR, VFR, AMR, and other robotic systems to build a complete and efficient logistics operation ecosystem
- Combines pallet and tote storage to support different inventory profiles
- Supports B2B and B2C fulfillment, including seasonal and promotional peaks



Before

VS

After

	Storage	Efficiency	Flexibility
Before	Limited capacity	Conventional picking	Slow response to peak demand
After	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 warehousing and distribution challenges associated with store expansion, Dashenlin is developing a three-tier network of group, provincial and regional warehouses. This logistics center is an example of the company' s efforts to expand distribution coverage and implement digital, intelligent logistics

Customer Pain Points

- B2B-dominated operations leave B2C growth potential underdeveloped
- Labor shortages and limited storage capacity have pushed semi-automated operations to their limits
- Logistics planning has not kept pace with business expansion
- Digitalization, operating efficiency, accuracy and cost control need improvement

Solution

- Modular configuration and flexible storage to support B2C growth
- Dual-mode intelligent order consolidation to increase capacity
- End-to-end process optimization to accommodate business expansion

Before

VS

After

Storage Capacity	Efficiency	Accuracy
Expansion pressure and insufficient capacity	Complex inventory; frequent shipping errors	High manual operation error rate
Over 300,000 cases, supporting 0.79B USD annual sales	48-hour nationwide store delivery	Up to 99.99%

Food Industry – FreeNow

Free Now, known for its coconut-based beverage products, faced challenges in storage capacity, operational efficiency and order processing at its Tongxiang production facility. GALAXIS deployed an intelligent four-way Pallet MSR solution to support fast, stable and accurate warehouse operations as the business expanded



Customer Pain Points

- Insufficient storage capacity, bottlenecks in inbound/outbound efficiency, and complex multi-channel order processing
- Business expansion has increased the need for efficient warehousing and supply chain operations

Solution

- Intelligent Four-way Pallet MSR solution connecting factory production with finished-goods distribution
- Flexible fulfillment supporting both B2B and B2C orders
- Full-process automation with 24/7 continuous operation

Before

VS

After

Storage Capacity	Flexibility	Accuracy
Insufficient warehouse space	B2B bulk transfers incompatible with fragmented B2C orders	Unstable and error-prone manual operations
Higher density 8,000+ pallet positions	Full omni-channel order compatibility	Up to 99.99%

Automotive Industry – FAW Jiefang



FAW Jiefang' s Smart Logistics Center is a major component of its intelligent manufacturing initiative. Designed to deliver more efficient, intelligent services, the project represents a large-scale, highly functional application of advanced intralogistics technologies in automotive manufacturing

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

- Integrates stacker cranes, MSRs and lifts for factory-wide material storage and retrieval
- Hybrid storage supporting multiple container types and sizes
- Flexible system design provides equipment redundancy
- Unified data source and standardized information framework for seamless coordination

Before

VS

After

	Storage Capacity	Efficiency	System Reliability
Before	Limited warehouse capacity	Low efficiency with manual picking	Non-standard equipment made maintenance difficult; single-point failures caused downtime
After	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

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

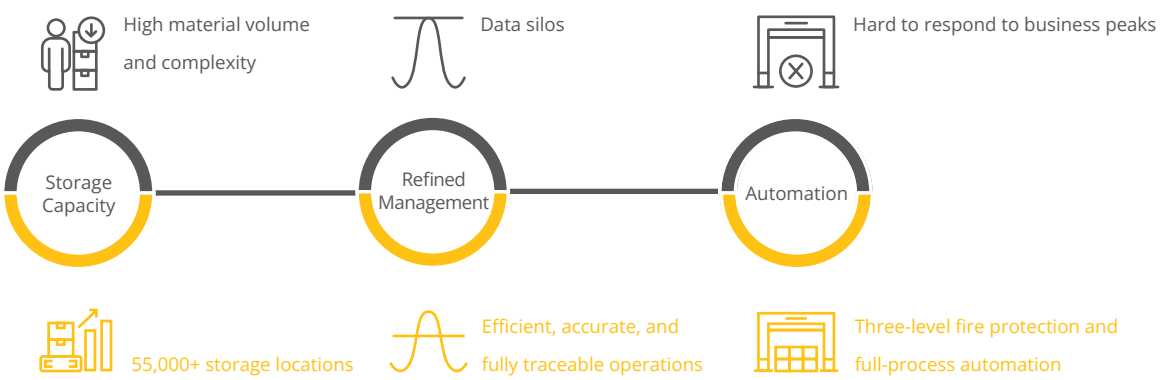
Solution

- Modular deployment of the Tote MSR system
- Integrated WCS + OES solution enabling full-process monitoring and traceability of warehouse operations

Before

VS

After



EC Industry – OPPO



Located in the OPPO (Chongqing) Intelligent Ecological Technology Park, the project is OPPO' s first automated high-bay warehouse exceeding 20 meters in height. The facility forms part of a production campus integrating intelligent manufacturing, automated warehousing and hardware R&D

Customer Pain Points

- Rapid product iteration and fluctuating orders cause delivery delays and excess inventory
- Low coordination between material handling and production lines, resulting in fragmented data flows
- Labor-intensive warehousing has high 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

Space Utilization	Storage Capacity	Digitalization
Low utilization, wasted space	Insufficient storage slots	Data fragmented across processes
45,000m² 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

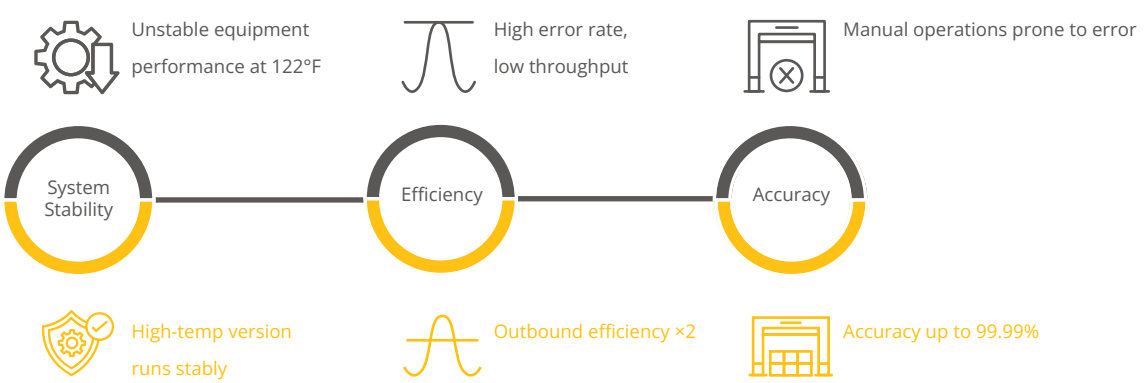
Solution

- 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

Storage Capacity	Energy Use	Labor Cost
Limited space, inventory buildup	High energy consumption	Labor-heavy, costly operations
Storage Capacity ×10, E&O Inventory <1%	Energy savings of 15%	Workforce reduced by 40%, saving USD 0.29 million/year

07

SERVICE AND SUPPORT

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
INTO OUR OPERATIONS TO CREATE LONG-TERM VALUE
FOR EMPLOYEES, PARTNERS, CUSTOMERS, AND SOCIETY



Environmental Responsibility

Certified to ISO 14001, GALAXIS promotes sustainable operations through energy-efficient facilities, renewable energy initiatives, resource optimization, and responsible waste management. Our intelligent robotics solutions also help customers improve space utilization and operational efficiency



People & Social Responsibility

GALAXIS is committed to a safe, inclusive, and supportive workplace. Guided by our ISO 45001-certified occupational health and safety management system, we prioritize employee well-being, equal opportunities, and professional growth through continuous training and development



Governance Responsibility

GALAXIS upholds high standards of business ethics, compliance, and corporate governance. With an ISO/IEC 27001-certified information security management system, we strengthen data protection, intellectual property management, and responsible innovation to build lasting stakeholder trust

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