

Geek+



**MOVING
THE WORLD
INTELLIGENTLY**

Successful Project Implementation

NO.1

Market share of global AMR market *

Over **10,000** robots

Deployed Globally

Nearly **300**

Global Customers

Nearly **40**

Fortune 500 Companies

Over **20** countries

Provide Global Sales, Operation & Service Capabilities

* Data obtained from a Global Market Research Report by Interact Analysis

World Leading Technology

Geek+ provide AI-driven robotics solutions for logistics and manufacturing. Powered by exceptional perception, accurate navigation and powerful motion control, Geek+ solutions can be applied to various industry scenarios.

More than **400**

Patents Globally

20 countries

Product Certifications

CARE Strategy

To Drive Growth & Global Expansion

C

Customer
Focused

A

AI
Driven

R

Robot as
a Service

E

Ecosystem
Enabling

Customer Focused

Real Value with Smart Logistics

AMR-driven technology will reduce costs & streamline operations

200-300%

Efficiency

99.99%

Accuracy

1-3 years

ROI

1-3 months

Implementation

Creating an Agile Supply Chain

Resilience

Securing the supply chain through sustainable and continuous operations

Speed

Quickly respond to business needs

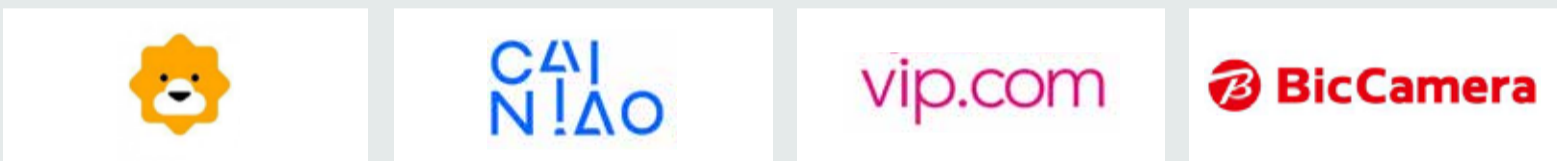
Flexibility

Flexibly meet unpredictable changes in demand

Portfolio of Successful Cases

Geek+ solutions are applicable to a wide range of industry scenarios such as e-commerce, retail, apparel, 3PL, pharmaceuticals, automotive and manufacturing. The large scale and proven portfolio of successful cases, attest to the excellence of Geek+ products and systems.

E-commerce



Apparel



Retail



Pharmaceuticals



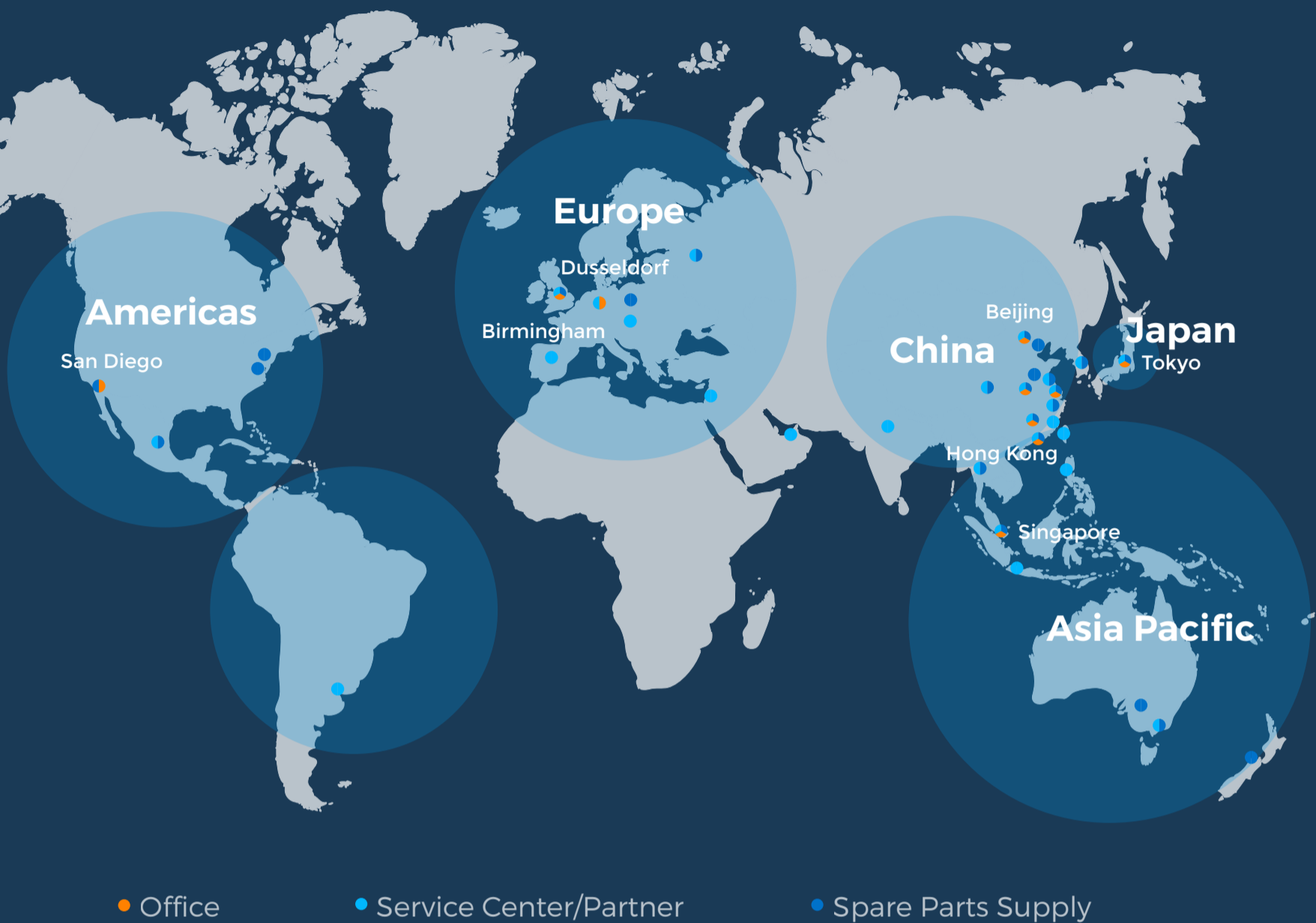
Manufacturing



Logistics



Largest Global Footprint



- 24/7 Help Desk
- Residential Service
- Service Package
- On-Site Repair
- Training & Certification
- Remote Technical Support
- Spare Parts Service
- System Maintenance & Upgrade
- Preventive Maintenance

Geek+ has more than 400 patents globally as well as 20 certifications that meet the strictest standards around the world. For its international growth, Geek+ has implemented a 'localization' strategy setting up regional sales teams, channel and service partners and providing products and services in local languages adapt to customers' needs and requirements. Geek+ after-sales support provides the most in depth support plan and superior quality service to reduce downtime of on-site equipment and systems, maximizing system availability and efficiency.

An Industry Leader



Global Top 50
2019-2020 Robotics Business Review

Winner of the RBR50 Awards
two consecutive years 2019-2020



Supply Chain Excellence Award

Consecutive winner of the prestigious
European industry award



IFOY AWARD

international intralogistics and
forklift truck of the year

IFOY Best of Intralogistics

The only AMR company in the world
to be recognized



reddot award 2018
winner

Germany Red Dot Design Award 2018

FROST & SULLIVAN

China New Economy Award
by Frost & Sullivan



Logistics Technology
Award

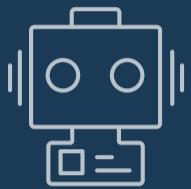
LT Summit Innovation Award



DELIVER

Rising Star Award

Technical Advantages



Outstanding AMR Performance

Stable, reliable, flexible and efficient



Business-driven Software Platform

RMS、WES、WCS、WMS and other business systems



AI algorithms and Data Platform

Large-scale data mining, machine learning and cloud application

Full Range of Smart Robotics Products



Picking System

200-300%

Efficiency

99.99%

Accuracy



Geek+ picking system improves picking efficiency by 3 times that of manual labor and reduces labor by 50 to 70%. The system employs smart algorithms as its core to realize multiple functions such as order optimization, product popularity analysis and shelf recommendations, and RFID inventory.

It enables smart optimization of warehouse operations and can be configured to specific industry characteristics. It is flexible, scalable, and can be deployed in under two months. The picking system is suitable for warehouses of many industries such as apparel, e-commerce, retail, 3PL, pharmaceutical, automotive, and 3C manufacturing.

Bin-to-Person Solution

High Flexibility

High Efficiency

More Storage Capacity

High Cost-Performance



C200S Single Bin-to-Person Robot

2-3x Efficiency of Manual Picking

AMR solution with Highest Picking Efficiency

Flexibly Implemented on Existing Infrastructure

Storage Capacity 2.5x of Traditional Warehouses

Double Deep Technology for Efficient Space Utilization

Operates Single & Multi-Floor Layouts



C200M Double Deep Bin-to-Person robot

Geek+ RoboShuttle™ Bin-to-Person picking solution achieves high-density storage using Geek+ C-series robots. The solution can be installed using C200S or C200M, both of which can operate on multi-floor mezzanines and single-floor layouts, meeting customers' need for high-density storage, high efficiency, high flexibility, and high cost-performance.

Sorting System

Efficient | Accurate | Flexible
10x Efficiency of Manual Sorting

S 10C



S 20C



S 100C



S 35C



S 20T



Geek+ sorting system adapts to various parcel sorting scenarios. It utilizes robots to effectively improve operational efficiency and minimize overall costs. Geek+ currently has two solutions for floor-based sorting and multi-level sorting. The system's efficiency is 10 times higher than manual sorting. It is proven to reduce labor intensity while improving accuracy. It is suitable for sorting scenarios in various industries such as apparel, 3C, FMCG and express delivery.

Moving System

Precise Positioning

Flexible Implementation

Open-Box Solution

Safe & Reliable



M1000C



M200C



M600C



M1000R



M1000T

Geek+ moving system replaces traditional fixed production equipment. With SLAM technology and multi-sensor assisted navigation method, the system is highly adaptable to the fast and flexible industrial production cycle. The interface of the moving system is open and modular, able to dock with the customer's existing system and connect various types of equipment to realize fully automated moving. The moving system can also optimize inventory management and increase storage utilization.

Geek+ M series moving robots have a maximum load of 1,000 kg. The integrated laser and vision SLAM technology ensures that the robots follow consistent paths and have precise start and endpoints.

Forklift System

0 to 12 meters

Effective Height Lifting

50%-80%

Reduced Labor Costs

1 to 3 tons

Moving, Storage & Retrieval



F14L



F16R



F15K



F35C



F20T



F16C

Based on proprietary SLAM navigation, the smart forklift can adapt to various complex factory and storage environments. Combined with Geek+ AI vision algorithm which has powerful environmental perception capabilities, it can easily respond to various application scenarios such as unloading on the production line, high-level shelf stacking and warehouse stacking. Currently, smart forklifts have served customers in industries such as apparel, e-commerce, retail, 3PL, pharmaceutical and manufacturing.

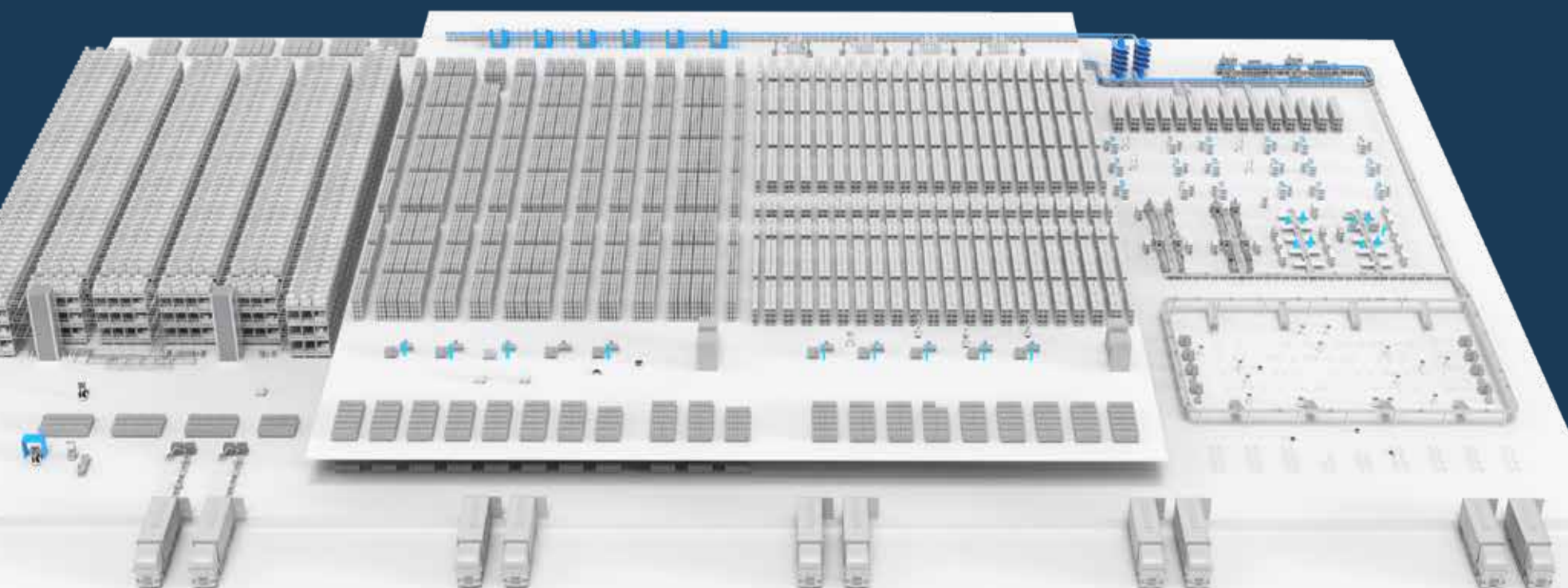
The Geek+ intelligent forklift series reduces labor costs by 50%-80%, ensures safe operations, and effectively reduces goods damage. The forklifts can meet moving, storage, and retrieval needs at 0 to 12 meters and 1 to 3 tons. All systems have 360° obstacle avoidance and a standard pallet recognition algorithm to ensure safe and efficient unmanned operations.

Smart Warehouse

Comprehensive | Agile | Modular

Geek+ Smart Warehouse solution provides customers with flexible solution designs and simulations of the entire automated warehouse process. It also provides a one-stop service for robot warehouse applications. Smart Warehouse system is highly modular and integrates a picking system, a moving system, a sorting system and an access system. It can be connected to other automation equipment. The system's modular combination allows to solve the actual needs of customers while remaining compatible to existing processes and systems.

It can quickly improve operational efficiency and saves costs, compatible with existing warehouse processes and systems and flexible for the changes in product storage and production capacity.



Smart Factory

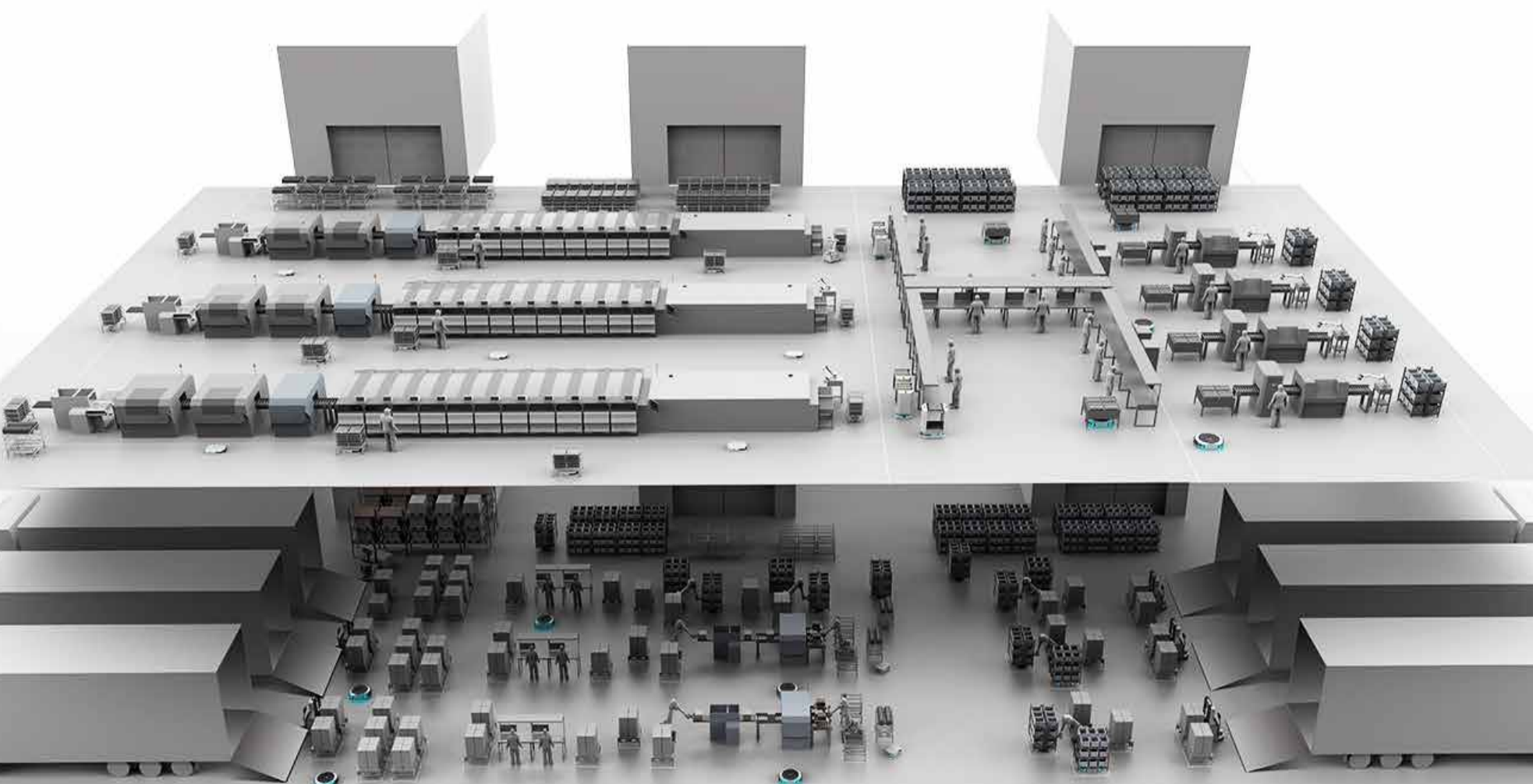
Flexible

Intelligent

Reliable

Geek+ Smart Factory solution encompasses a variety of manufacturing application scenarios. Through the production line logistics management system and manufacturing warehouse management system, intelligent robots are deployed to complete various processes. Combined with cloud and big data analysis technology, it provides customers with a complete set of hardware and software services to integrate various types of equipment in the factory with the industrial IoT platform.

The system uses industrial IoT, 5G technology, edge computing and MES, being able to guide, initiate, respond, and report with real-time and accurate information. All AMRs are equipped with 3D vision technology which enables robots to autonomously work in various scenarios.



Geek+ Smart Factory

Robots making Robots

Our Smart factory uses Geek+ robots, AI algorithms and other automated solutions to manufacture new Geek+ robots.

Empowered by the Smart Factory system, Geek+ factory guarantees more precise process control and higher accuracy with a straight-through rate for the final assembly exceeding 98%, and higher traceability of the whole process, which reduces overall management costs.

- Modifications can be made to the system configuration to deal with bottlenecks flexibly and realize quick expansion as well as change production.
- The one-time pass-through rate of the assembly area exceeds 98%
- Realize multi-product production lines
- Connect WMS and MES for end-to-end traceability of over 95% of materials
- Reduce training time of warehouse operators by more than 92%



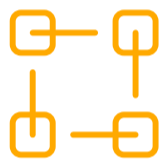
Robot-as-a-Service

The Industry's First Robot-as-a-Service (RaaS)

Released in 2018, Robot-as-a-Service or RaaS is a product developed with Geek + robots, systems and AI algorithms, providing an integrated service solution for intelligent warehouse and distribution. Through flexible business cooperation models, RaaS reduces the capital and capability barriers for businesses to access advanced technologies. RaaS empower customers with robot-based operational capabilities to help them quickly achieve supply chain upgrading.

Robot Rentals

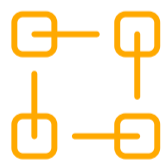
Geek+ provides robot rental services, tailored to customer demand.



Solution + Equipment

Comprehensive Management Service

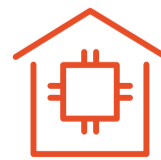
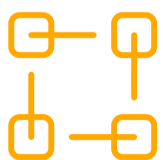
In addition to the robot rental services, Geek+ provides on-site operations and management support.



Solution + Equipment + Operators

Integrated Distribution Service

Comprehensive smart logistics solution - We provide customers with integrated storage and distribution services via our smart warehouse express delivery partners.



Solution + Equipment + Operators + Warehousing and distribution

Ecosystem Enablers

Transforming the Global Supply Chain

We believe technology and industry partnerships are the key to transforming the global supply chain.

We work with technology leaders in the fields of cloud computing, Internet of Things and robotics, to provide customers with integrated smart logistics solutions.

We also partner with logistics real estate developers, 3PL, express delivery and transportation, manufacturers, retailers and brands to open up upstream and downstream, promote synergies and accelerate the overall transformation of the supply chain.



ROBOTICS



AnJi

Case Studies



Nike brings Same-Day Delivery to Japan

Challenge:

With a fast increasing sales of shoes and clothes in Japan, more and more warehouse operators have to walk long distances back and forth between the storage area and delivering area. Aging population has increased scarcity and cost of labor. Geek+ solutions help decrease labor costs and make warehouse operations smooth and efficient.

Solution:

In July 2019, Geek+ deployed more than 200 picking robots to Nike's distribution center in Tokyo, Japan, which spans more than 10,000 square meters. The goods-to-person picking method improved Nike's warehouse shipping efficiency and reduced labor requirements.

Results:

Reduced

Labor Costs

Improved

Sorting Efficiency

Same-day delivery

For the first time in Japan



Suning Logistics Streamline Operations with the Smart Warehouse solution

Challenge:

To enhance customer service and support growing demand, Suning has been looking into new efficiency drivers for its warehouses, including unmanned warehouse technologies. In 2010, it started implementing traditional automation processes in its warehouses. Realizing the limits of traditional automation processes, specifically the lack of autonomy and AI applications, Suning started looking into autonomous mobile robotics solutions.

Solution:

In 2017, Geek+ introduced a goods-to-person picking solution for their computers, communications, and consumer electronics warehouse in Shanghai, where 70 P800 robots were deployed and integrated with Suning's WMS. Additionally, in 2019, Geek+ implemented another 20 P800 robots to their Smart Warehouse in Nanjing.

Results:

3x

Efficiency

3x

Daily Picking Volume during Peak period

40%

More Storage Capacity



RETAIL

Decathlon Triples Efficiency with Logistics Robots

Challenge:

The rapid growth of its e-commerce business highlighted the limited performance of the manual process. As one of the first companies to adopt RFID technology, Decathlon was looking for a technology that could integrate with RFID and raise the efficiency and accuracy of its picking operations to meet its business goals.

Solution:

Geek+ provided Decathlon's Shanghai warehouse with an innovative warehousing solution consisting of goods-to-person picking and inventory-collection system based on RFID technology. This greatly improved Decathlon's picking and inventory-collection efficiency and accuracy.

Results:

3x

Efficiency

RFID+AMR

Combination



ACCA Introduces the Goods-to-Person solution to boost its 3PL with more Efficient Warehouse Operations

Challenge:

Due to rapid growth in Japan's apparel and shoe industry, employees were spending more time going back and forth between the storage and delivery areas of ACCA's warehouse. Additionally, an aging population implied high personnel costs and labor scarcity.

Solution:

In 2017, ACCA introduced more than 30 P500 robots on 2,600 square meters, and in 2018, ACCA powered its expanded warehouse area of 8,000 square meters with nearly a hundred more robots.

Results:

80%

Reduced Manual Operations

Significantly Raised

Operational Efficiency



A Leading Pharmaceutical Company use Smart Logistics to overcome bottlenecks

Challenge:

The customer wanted to adopt a goods-to-personal solution to raise its split case picking efficiency, reduce the number of warehouse operators, and lower the labor intensity.

Solution:

Geek+ provided the pharmaceutical company with a customized solution taking into account industry-specific practices, including lot management, quality status management, separated management, and first in, first out method.

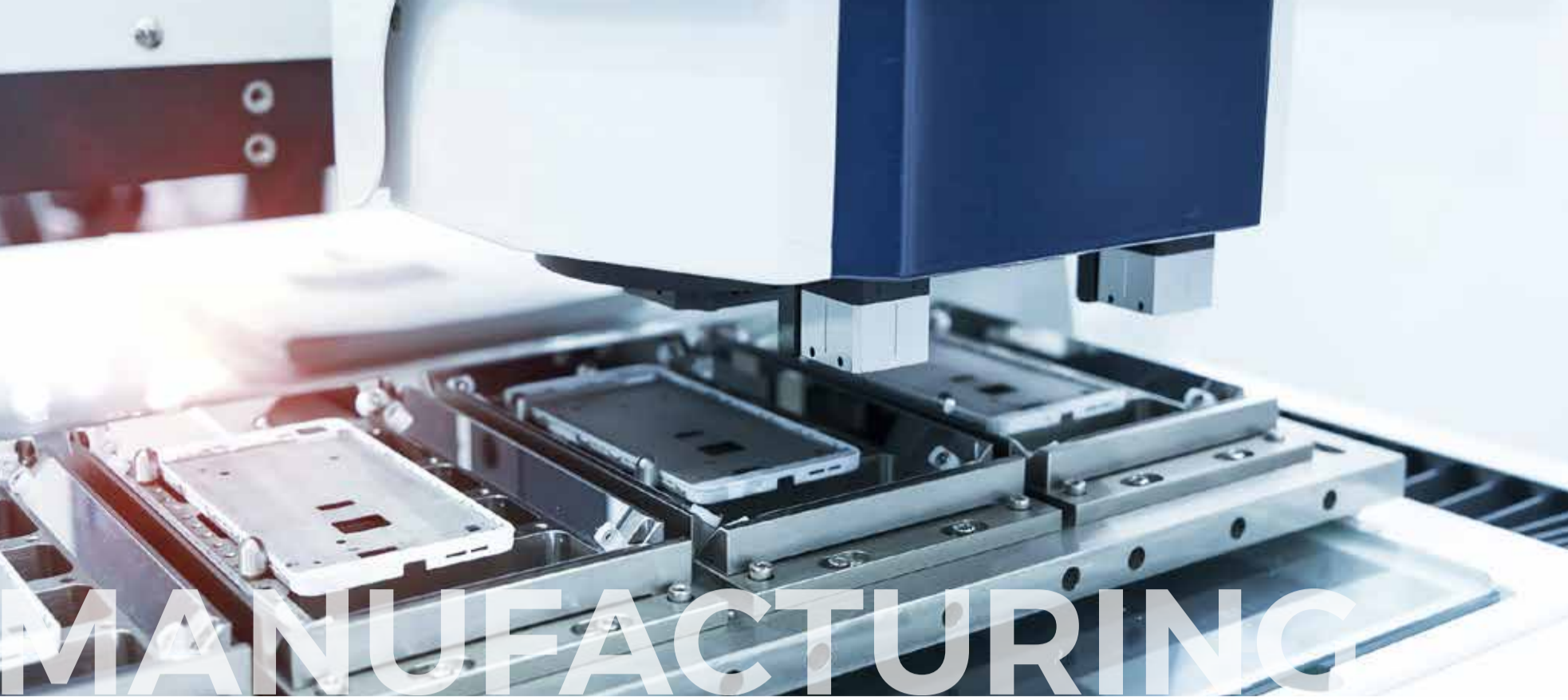
Results:

Nearly 3x

Efficiency of Manual Picking

Significantly reduced

Labor Intensive Operations



Dell Boosts Operations with the Goods-to-Person Solution

Challenge:

Kerry Logistics manages and operates Dell's parts warehouse in Xiamen. Because of the compact layout and tightly packed shelves, manual picking was difficult.

Solution:

Guided by the principles of efficiency, stability, and agility, Kerry Logistics selected a Geek+ sorting solution for an intelligent upgrade of its warehouse. Geek+ deployed more than 30 P500 picking robots, utilizing a dense storage method to meet the high storage capacity and high space utilization requirements while managing a massive volume of SKUs. In addition, the warehouse is now able to flexibly switch between the picking, shelving, inventory-collecting, and other functions at any time based on business needs.

Results:

10x

Efficiency of
Inventory-Collection

Unmanned

End-to-End
Moving Operations



Yanfeng Transforms Factory operations with Intelligent Automation

Challenge:

Yanfeng was facing challenges of rising labor costs and difficulties of the logistical processes to keep up with the fast pace of manufacturing and manual handling of materials implied high risks for employees. Additionally, WIP inventory management and data traceability could not be achieved.

Solution:

Geek+ provided Yanfeng with a comprehensive picking and materials handling solution. A Geek+-developed inventory process management system was introduced for managing product inventory and handling materials before and after processes.

Results:

2x

Efficiency

100%

System Management Accuracy

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