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SMART MOVING

Precise · Safe · Efficient

Geek+

Geek+

NO.1
Global AMR market share for 3 consecutive years*

500+
Trusted by 500+ global industry leaders

$300m+
Orders in 2021

900+
patent applications submitted globally

Technical Advantages

Excellent AMR Performance

Stable, reliable, flexible, and efficient.

Business-Driven Platform

Can be integrated with RMS, WES, WCS, WMS, and other business software.

AI Algorithm and Data Platform

Large-scale accumulation of edge machine and cloud business data.

*Source: Interact Analysis

Rapid Return on Investment

Reduces costs, increases efficiency, and enhances competitiveness.

3x Increased Efficiency

>99.99% Accuracy

1-3 years ROI

1-3 months Rapid Deployment

Enhances supply chain stability.

Resilient
Ensure business and supply chain continuity.

Fast
Respond quickly to business requirements.

Flexible
Flexibly adapt to sudden business changes.

Award-Winning Industry Pioneer

SUPPLY CHAIN EXCELLENCE AWARDS 2021

Supply Chain Excellence Award 2018, 2019 & 2021

RBR 50 COMPANY

Top 50 Robotics Company – 2019-2020 Robotics Business Review.

FAST COMPANY MOST INNOVATIVE COMPANIES 2021

Fast Company Award 2021

Trusted by the Best

With High Customer Satisfaction Geek+ Solutions are integrated with e-commerce, retail, footwear, logistics, pharmaceutical, automobile, and 3C manufacturing industries. Its high-quality products and technologies have been successfully implemented in a wide range of business scenarios.

E-commerce	suning	PChome ONLINE	vip.com	BicCamera
Apparel	Disney	NIKE	DECATHLON	ANTA
Retail	Walmart	CIRCLE K	H&M	SKECHERS
Pharmaceutical	SINOPHARM	DKSH	BAYER	JOINTOWN
Manufacturing	DELL	MATTEL	SIEMENS	GIGABYTE
3PL	GEODIS	DSV	DHL	KERRY LOGISTICS

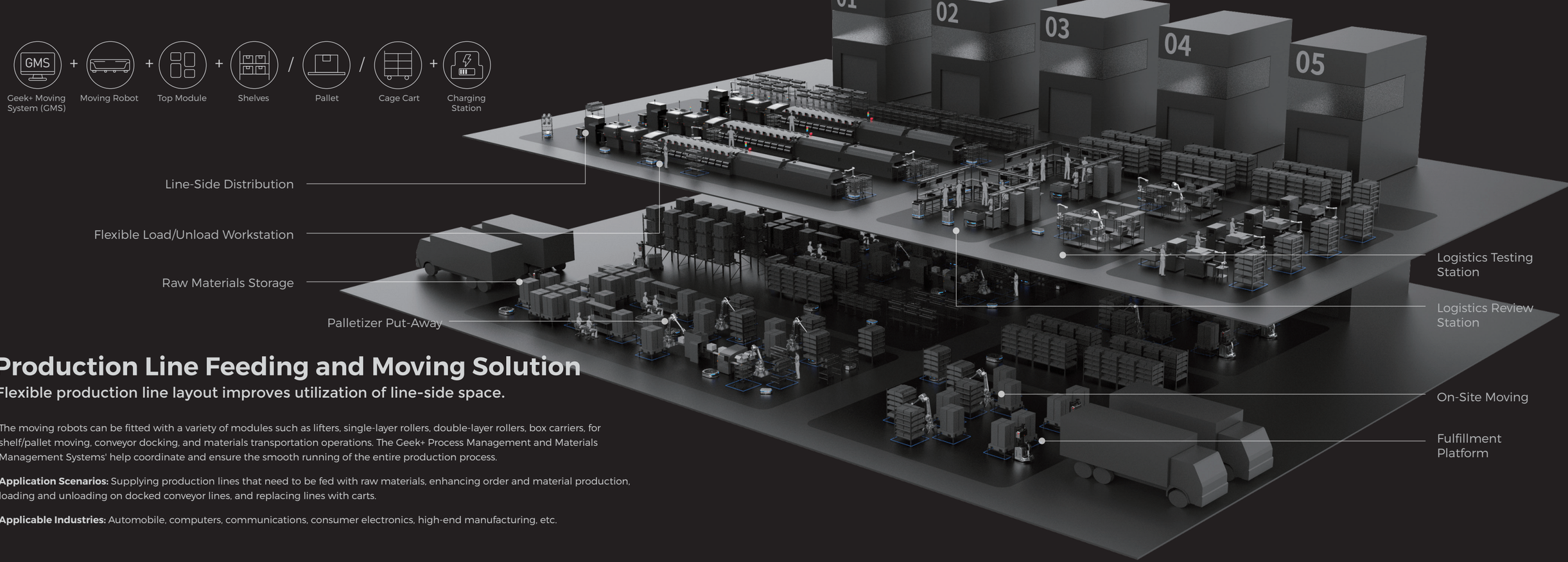
Sales, Operations, and Services in 30+ Countries and Regions

- Service packages
- Residential services
- Spare parts supply
- 24/7 help desk
- On-site repair
- Preventive maintenance
- Remote technical support
- System maintenance and upgrade
- Training and certification

Geek+ Moving Products

Accurate, Safe, and Internationally Trusted

AMR Moving Solutions



Production Line Feeding and Moving Solution

Flexible production line layout improves utilization of line-side space.

The moving robots can be fitted with a variety of modules such as lifters, single-layer rollers, double-layer rollers, box carriers, for shelf/pallet moving, conveyor docking, and materials transportation operations. The Geek+ Process Management and Materials Management Systems' help coordinate and ensure the smooth running of the entire production process.

Application Scenarios: Supplying production lines that need to be fed with raw materials, enhancing order and material production, loading and unloading on docked conveyor lines, and replacing lines with carts.

Applicable Industries: Automobile, computers, communications, consumer electronics, high-end manufacturing, etc.

Industry Challenges

Though on-site manufacturing automation is high, most materials management is handled manually, leading to high operational error rates.

Human-machine interaction and a variety of transportation equipment are necessary for industrial scenarios with complex operational conditions. The efficiency of production operations rely on the overall safety of the process.

Traditional conveyor lines are inflexible and have high refitting costs. If problems are found, the entire production line must be shut down for maintenance.

Automated Solutions

Smart materials management: The Geek+ Smart Moving System includes both materials and containers management functionality. Data is transferred in a synchronized manner to ensure on-time and on-demand distribution of materials.

Comprehensive Safety Testing and Certification: K29 industrial-grade design and CE, FCC, ETL certification safety standards; all robots are subject to high-intensity indexed vibration testing. **Accurate Multi-Sensor Positioning:** Robots are equipped with a variety of sensors, ensuring safety and suitability for human-computer interaction scenarios.

The smart moving solution is highly flexible and easy to deploy. Maintenance and repair can be carried out on a unit by unit basis without affecting the entire production line, reducing downtime, improving efficiency, and optimizing production.

The Geek+ Impact

100% Management Accuracy

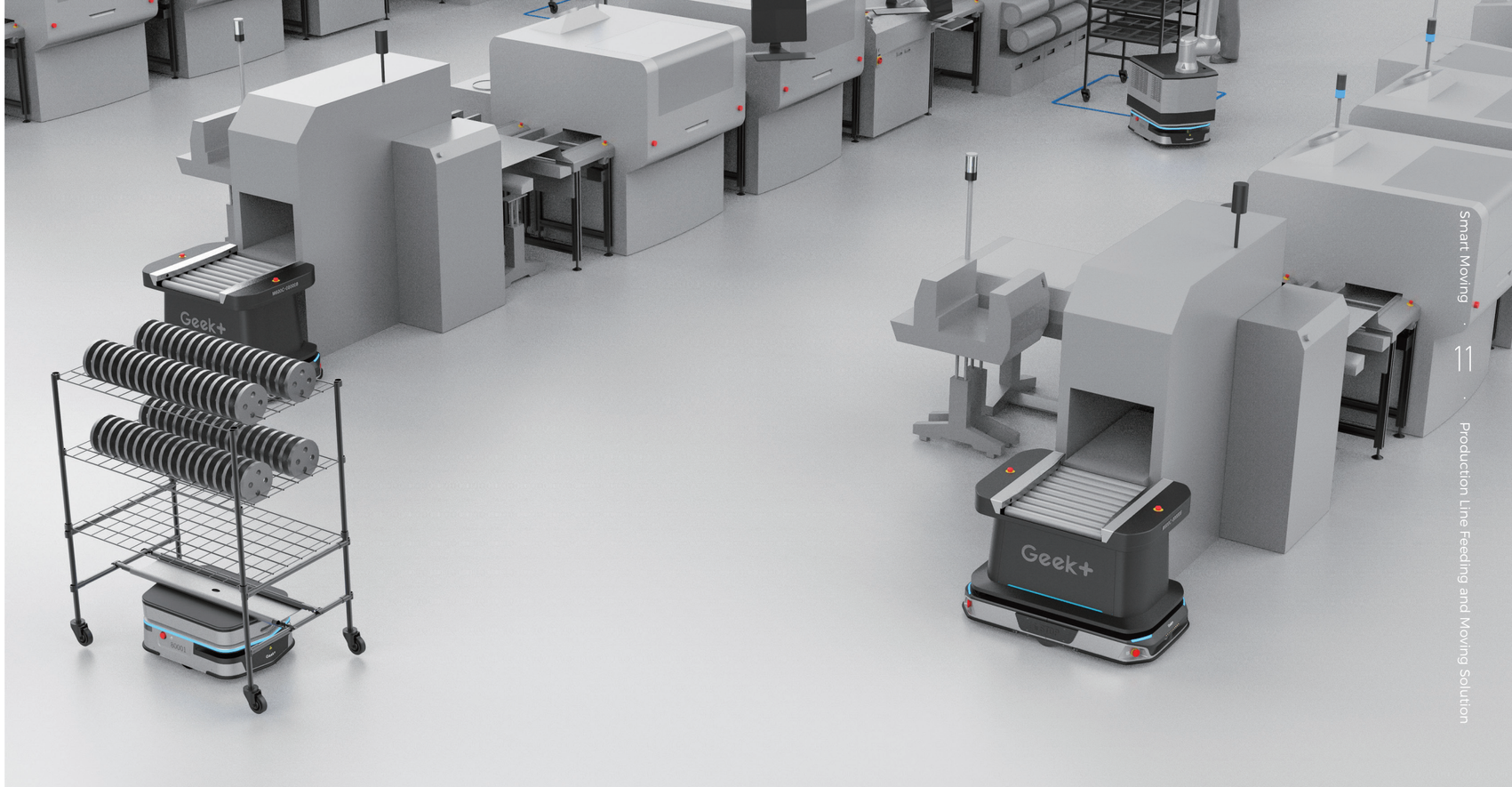
Seamless integration between internal processes ensures timeliness of production.

Extremely Safe

Powerful safety and performance solutions ensure smooth operations throughout the entire production and logistics processes.

Flexible Deployment and Transformation

Rapid deployment period (within 2 weeks), low maintenance costs, and isolation of failure points from the production line.



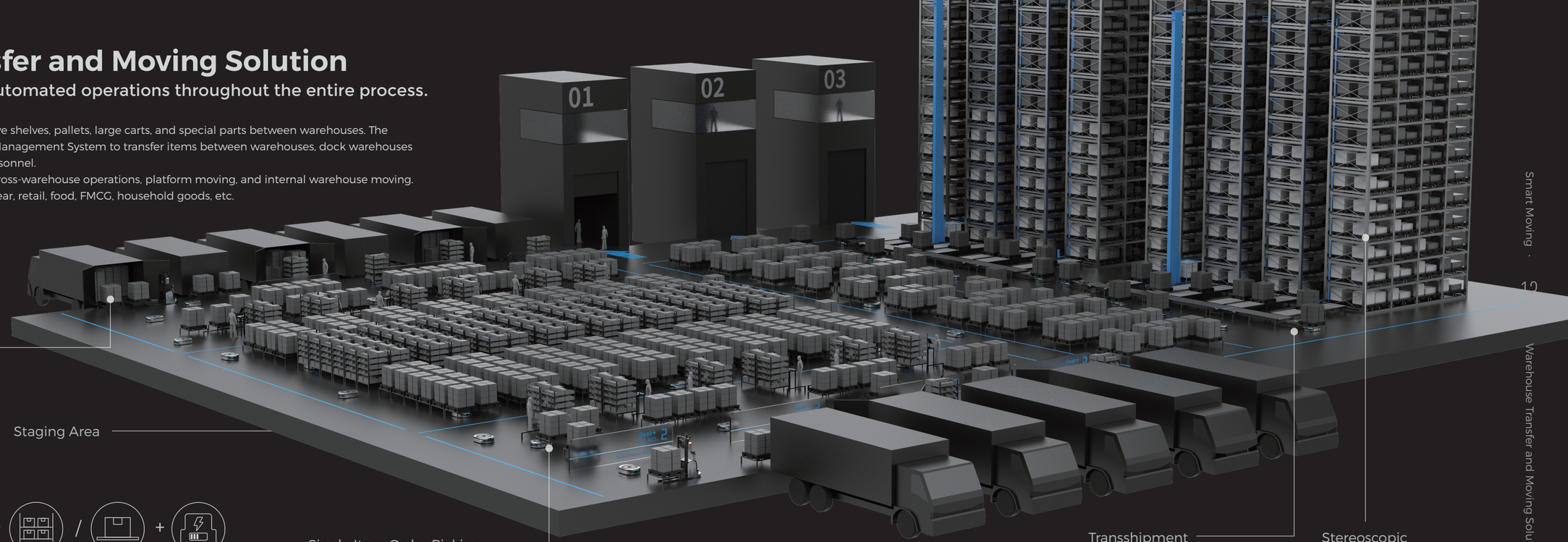
Warehouse Transfer and Moving Solution

Smart management of fully automated operations throughout the entire process.

Uses Geek+ picking and moving robots to move shelves, pallets, large carts, and special parts between warehouses. The solution coordinates with the Geek+ Process Management System to transfer items between warehouses, dock warehouses conveyor lines, and collection and delivery personnel.

Application Scenarios: Warehouse docking, cross-warehouse operations, platform moving, and internal warehouse moving.

Applicable Industries: Pharmaceutical, footwear, retail, food, FMCG, household goods, etc.



The Geek+ Impact

Flexible Deployment Manages Business Fluctuations

Supports flexible planning according to production line and business requirements, ensuring maximum operating efficiency.

Autonomous Moving Minimizes Damages

Reduces loss and damage rates caused by human error.

Fast Deployment Accelerates Capital Turnover

Deployment period of only 2 weeks ensures fast project implementation and accelerates capital turnover.

Efficient Layouts Improve Space Utilization

Improves storage efficiency and reduces storage costs.

Industry Challenges	Transformation of traditional automation equipment is expensive; even partial transformation may affect business operations, leading to at least six months of operating losses.	• Manual logistics management is high; human error is inevitable. • Traditional magnetic rail solutions are not flexible enough to completely replace manual labor.	Warehouse space utilization is low; storage capacity must be improved.
Automated Solutions	**Flexible Planning:** Flexible motion planning with 100+ operation and configuration policies, enabling quick layout adjustment, expansion, upgrades, and more.	**Flexible and Fully Automated Docking:** Robots can flexibly dock with warehouses/lifters and automate the raw material transportation, production line distribution, temporary storage, and fulfillment processes.	**Balanced Storage and Efficiency:** Supports high-density storage methods, maximizes the use of warehouse space, and coordinates with flexible delivery strategies to meet high efficiency requirements.

	M200C	M600C	M1000C	MP1000R
				
Dimensions (L×W×H)	760×520×210mm (main body) / 313mm (with jacking module)	1100×700×210mm (main body) / 316mm (with jacking module)		1090×830×275mm
Self Weight	90kg (main body) / 106kg (with jacking module)	102kg (main body) / 182kg (with jacking module)	102kg (main body) / 182kg (with jacking module)	164kg
Maximum JackingPayload	200kg (with shelf and jacking module)	600kg (with shelf and jacking module)	1000kg (with shelf and jacking module)	1000kg
Maximum LiftingHeight	50mm (with jacking module)	60mm (with jacking module)		60mm
Minimum LiftingTime	4s (with jacking module)	5s (with jacking module)		4s
Maximum Speed	1.5m/s without load; 1.5m/s full load			
Maximum RotationSpeed	90°/2s, 180°/3s	90°/3s, 180°/4s		90°/2s, 180°/3s
Stop Accuracy	<±10mm, 1° (end auxiliary positioning)			
Navigation	Laser SLAM navigation + reflector navigation + visual navigation (visual module)	Laser SLAM navigation + reflector navigation + QR code navigation + visual navigation(visual module)		Laser SLAM navigation + reflector navigation + QR code navigation
Obstacle Avoidance Range	360°, 40m LIDAR	360°, 40m LIDAR		360°, 25m LIDAR
Battery Type	Lithium-ion			
Battery Life	>2000 cycles			
Operating Time	Charging for 10 minutes, working for one hour (*customizable charge and operating time)			
Certification	CE	CE, FCC, ETL	CE, FCC, ETL	CE, FCC, ETL
Operating Temperature	10°~ 40°C			

Smart Factory for InlayLink

InlayLink is a leading international manufacturer of RFID tag antennas, and one of the few providers of RFID data collection solutions. The company specializes in the design, R&D, production, and sales of RFID tag antennas and inlays; and is trusted by many global tag and smart card manufacturers. As of 2014, InlayLink had shipped a total of 15 billion RFID products.

Challenges

- Process management of materials is necessary; manual transportation of materials is connected to the MES.
- Large-volume manual transportation of materials requires high manpower and cannot scale with future growth.
- Comparatively high material costs require time-consuming recordkeeping

Solution

- The factory was equipped with 12 MP1000R robots with SLAM + QR hybrid navigation (different navigation methods are used in different areas) to meet high-density storage and automated material distribution requirements. The small fleet of robots can fulfill multiple job requirements, realizing standardized and on-time distribution of materials.
- The Geek+ Process Management System is directly connected to elevators, creating a fully automated smart factory.

Before Deployment		After Deployment
Every step must be checked, verified, signed, and delivered manually.	Management Costs	Integration of the GMS with the WMS and MES reduces verification steps and greatly reduces management costs.
Maintenance and transformation require a stop in production.	Maintenance	Maintenance and repairs can be carried out independently, ensuring high efficiency and optimized production.
Overreliance on manual operations make on-time distribution difficult.	Efficiency	Overall moving efficiency across the entire process increased by 30-50%.

Manufacturing Center for Konica Minolta

Founded in 1936, Konica Minolta is an innovative optical products company with 44,000 employees and offices across 49 countries.

Industry Challenges

- Manual transportation of materials to production line leads to low efficiency.
- Demand for flexible production of multiple product types in small batches is increasing. Greater emphasis on customization means that the factory must be able to rapidly adjust its production processes.

Automated Solutions

- Geek+ Production Line Transfer Solution: P800 and M100 robots coordinate with GeekFlow and Geek+ iWMS to dock with the customer's upper-level systems.
- Laser and visual SLAM navigation technology allows for easy adaptation of moving routes during adjustment of production line layouts, with a positioning accuracy of ±10mm.
- Identifies and recognizes short obstacles of up to 50mm, ensuring the safety of on-site personnel and equipment.

Before Deployment

High costs and low ROI.

Over 40% of the line is covered by the receiving area.

Low manual distribution efficiency.

Daily inspections; monthly and biannual inventories.

VS

Costs

Receiving Area

Efficiency

Inventory Accuracy

After Deployment

ROI in < 2 years.

Reduces the line receiving area by 32%.

Intelligent transformation of picking and transportation of materials increases efficiency by 42%.

iWMS

SAP

Geek+ iWMS/SAP integration allows for bimonthly inventory.