CONVEYOR LOGISTICS
Empowered by Geek+

Geekplus Shelf-to-Person Solution

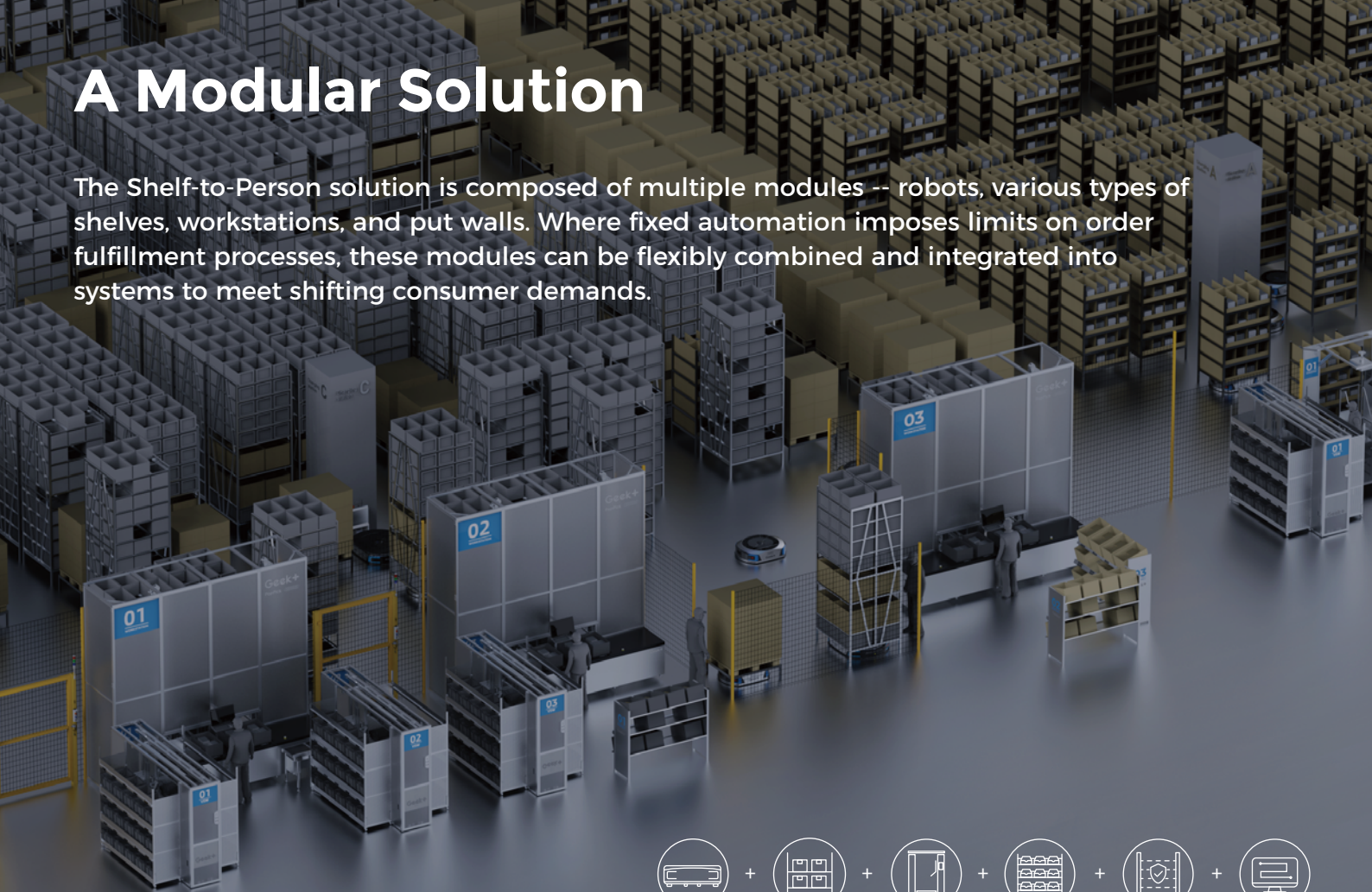## The Most Mobile Goods-to-Person Solution on the Market

The Geekplus flagship solution optimizes warehouse operations using mobile robots to transport mobile shelves, automating critical tasks like picking, putaway, slotting, inventory auditing and returns. Shelf-to-Person handles goods of all sizes while removing the need for infrastructure investment, making it the most flexible response to your warehouse challenges.

Applications: Ominichannel, B2B, B2C, Piece/Tote/Carton/Pallet picking
Applicable industries: Apparel, Retail, 3PL, E-commerce, Pharmaceutical, 3C, Manufacturing

A Modular Solution

The Shelf-to-Person solution is composed of multiple modules -- robots, various types of shelves, workstations, and put walls. Where fixed automation imposes limits on order fulfillment processes, these modules can be flexibly combined and integrated into systems to meet shifting consumer demands.

P-series robot + Shelf + Workstation + Put wall + Safety Module + Software

Why Shelf-to-Person?

Geekplus is the market leader in Goods-to-Person solutions. The system is cost-efficient, easy to use and can be swiftly implemented, with no fixed infrastructure. Adaptable shelves support a wide range of product sizes, weights, and shapes to enhance storage efficiency and picking productivity for a variety of business scenarios.

Flexible and scalable

· Easy to set up and relocate
· Robots and workstations personalized to your business
· Modular expansion with implementation in stages

High efficiency

· 2-4X picking efficiency improvement
· Automatic tote handling, double-person picking
· Intelligent algorithm and dynamic slotting, high hit rate

High ROI

· Flexible investment scaled to business needs and timeline
· Improved efficiency and accuracy reduces labor and operation costs
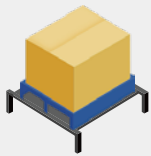· Quick deployment saves time and money

Sustainable

· Ergonomic design reduces heavy workload, increasing employee wellbeing
· System safety solutions provide a safer work environment
· High-efficiency picking reduces energy consumption

Robot

Model	P500R	P800R V6	P1200R
Dimensions (L*W*H)	950*702*275 mm	1095*830*195 mm	1325*1020*275 mm
Maximum Payload	600 kg	1000 kg	1200 kg
Payload Size (L*W)	880*880 mm~1020*1020 mm	1020*1020 mm~1250*1250 mm	1250*1250 mm~1600*1600 mm
Weight	144 kg	165 kg	320 kg
Speed	2m/s no load, 1.5m/s fully loaded	2.3m/s no load, 2m/s fully loaded	1.5m/s no load, 1.5m/s fully loaded
Running Time	Can run for 2 hours on a 10-minute charge		
Certification	CE, ETL		

Shelf

Multiple shelves support large, medium, and small items, including pallet, case, and piece picking.
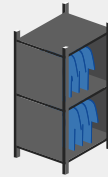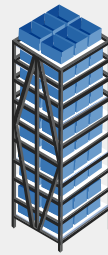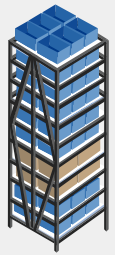
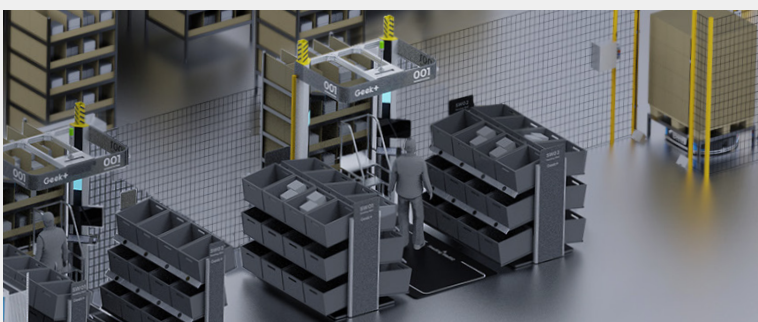| Pallet Shelf | Laminate Shelf | Hollow Board Shelf | Carton Shelf | Clothing Rack | PopPick Tote Shelf | PopPick Mixed Carton & Tote Shelf |

Workstation & Put Wall

PopPick workstation

· Automated tote handling
· Four-point picking design for single/double person picking
· Dynamic slotting for a high hit-rate and efficiency
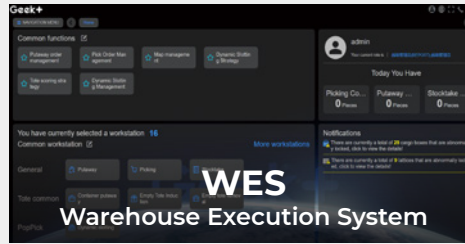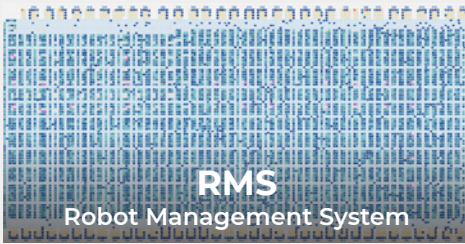· Ergonomic design for maximum comfort and ease of use

Standard workstation

· Light projection picking enables swift item location and picking
· Safety modules for personnel during the picking process
· Hands-free scanning with wearable devices
· Electronic tags guide picking, with a 99.9% accuracy rate

Software

Geekplus solutions come with real-time multiagent orchestration for order fulfillment optimization that integrates with existing systems. The proprietary, robust WES, RMS and IOP software is modular and built with the intention of integrating with third-party systems. Incorporating best practices from leading global enterprises across various industries, Geekplus platform is perfect for any business need.

RMS
Robot Management System

WES
Warehouse Execution System

IOP
Intelligent Operation Platform

Stable and reliable: uptime 99.98%

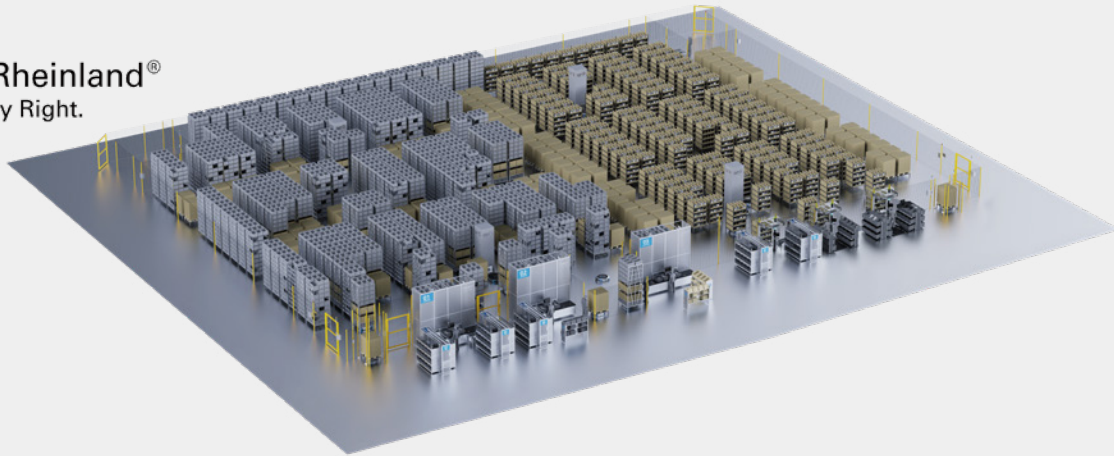**Intelligent algorithm:** high hit rate, shortens order processing time

Large scale scheduling: 3,000+ robots

Visual data analysis: facilitates informed business decision-making and operational optimization
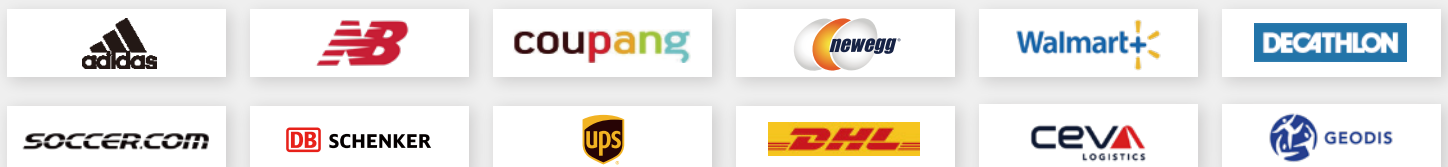
Abnormality alerts: automatic timely detection of anomalies to prevent production interruptions

Safety and Support

Localized implementation and service enables 24/7 coverage everywhere in the world. The Geekplus safety solution has been approved by TUV Rheinland certification, providing up to PLD-level safety performance.

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