· Picking Robot

Image Processing

Fast Lifting

Multi Sensors

High-capacity Battery

Emergency Stop

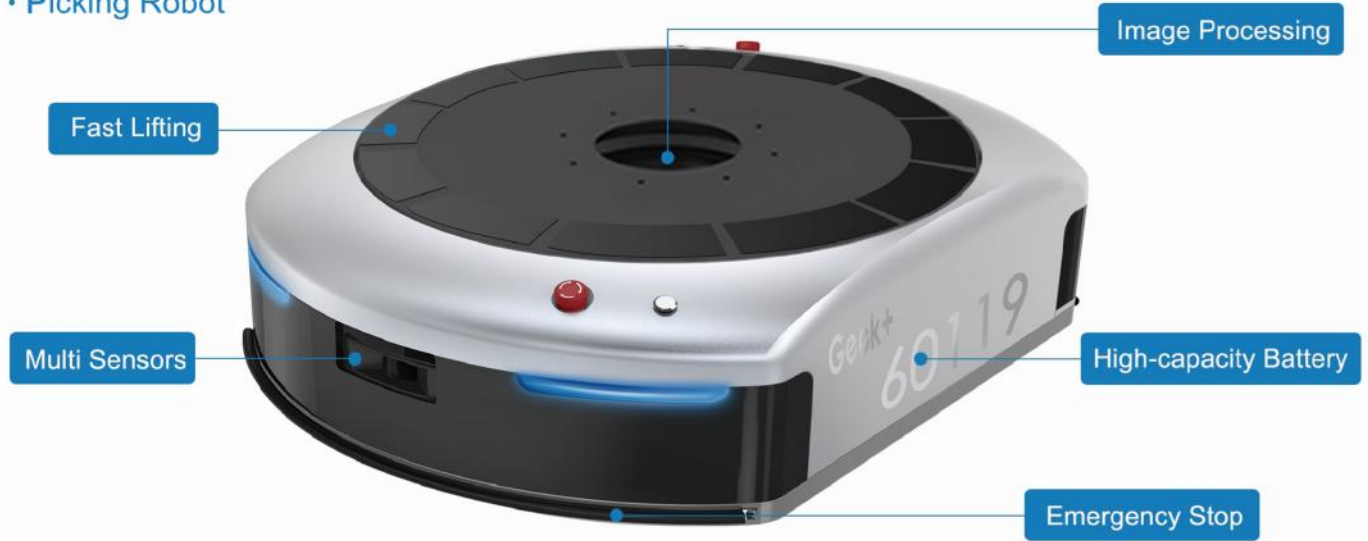Geek+ 60119

Improve Productivity

Optimize Process

Geek+ supports one-stop, turn-key solution.

Consulting & Planning

Consulting

Analysis

Design

Implementation

Implementation

Testing

Operation & Service

Operation

After-sales

Relocation

· Features

"Goods-to-person" picking
Stable Lifting and Carrying
Accurate Navigation and Obstacle Avoidance
Flexible Intelligent Scheduling
Advanced Automatic Charging

"Order-to-person" picking
Without Tranforming Environment
Flexible Dynamic Obstacle Avoidance
Fast and Efficient Man-Machine Interaction
Labor Free

· Values

Improved Productivity
Triple labor picking rate

Increased Accuracy
Accuracy up to 99.99%

Lower Labor Cost
Reduce 50-70% labor

Fast Deployment
Full operation in 3 months

Rapid ROI
Lower investment than conventional system

Flexible Operation
On-demand deployment, easy to expand

Simple Maintenance
Automatic fault diagnosis

Secured Safety
Obstacle avoidance to secure safety

Geek Picking System

· Background

Market pressure under the consume upgrading, inventory management of vast of SKUs and unpredicted labor cost have become the common challenges of E-commerce and many retail industries. Geek+ provides a flexible choice for breaking industry bottlenecks.

· Definition

"Goods-to-person" picking: Geek Picking System realizes "Goods-to-person" picking by enabling robots to carry shelves, which breaks the traditional Person-to-Goods law.
"Order-to-person" picking: robots automatically move to the targeting picking areas with orderbins according to system instructions to save manual seeking and walking.

· Application

Geek picking system is suitable for multi-SKU, normal-size goods picking operation and operating warehouse could be tens thousands of square meters. The system can be applied in E-commerce, retail, 3PL, medical, clothing, food, daily consumables, manufacturing, automobile, etc.

Application Scenarios

Receiving / Staging

Putaway

Picking

Packing

Customer Value

Full Automation
Reduce 50%-70% labor

Rapid ROI
1-3 years' payback period

Fast Implementation
System implementation within 3 months

Great Flexibility
Lowest investment risk

· Features

Pallet Moving
Meet multi load/carrier requirements
Fast operating speed
Seamless interface with MES/WMS/ERP
Suit for complex working environment

Flexible Workbin Moving
No extra navigation marker
No site transforming
Quick respond to changing demand
Assist to manual material handling

Flexbile Roller Joint
Accurate positioning
Material joint to automatic production line
Quick respond to changing demand
Fast and flexible configuration

· Values

Improve Productivity
Break the bottleneck of material handling

Lower Production Accident Risk
Multi-sensor infusion to minimize risk

Reduce Labor Cost
Reduce labor and save invisible costs

Lower Labor Intensity
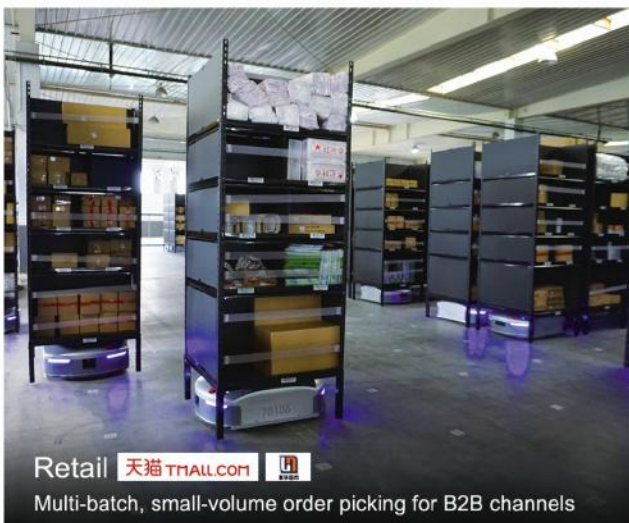Ergonomic design

Accelerate Return on Investment
Lower total cost and accelerate ROI

Enhance Branding Image
Branding enhanced by automation upgrade

Reference Cases in Multi Areas and Industries

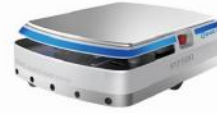
E-Commerce suning.com vip.com 卷皮
Case and item picking

Global acca
Launch the robot warehouse in Japan successfully

Express EMS SF EXPRESS
Innovative sorting solution for large parcel

Pharmaceutical bpsglobal
Comply pharmaceutical industries regulations

Retail 天猫 TMALL.COM
Multi-batch, small-volume order picking for B2B channels

Apparel 芬腾
Dynamic optimization to meet seasonal fluctuation

Parameter

	P1000	P800	P500	M100	S10
Weight	260kg	180kg	130kg	50kg	12kg
Lift Load	1000kg	800kg	500kg	—	—
Payload	1000kg	800kg	500kg	100kg	6kg
Length	1300mm	1040mm	920mm	740mm	460mm
Width	940mm	820mm	690mm	500mm	380mm
Height	340mm	280mm	280mm	210mm	140mm
Drive mode	Two-wheel differential drive	Two-wheel differential drive	Two-wheel differential drive	Two-wheel differential drive	Two-wheel differential drive
Speed	1.5 m/s	1.5 m/s	1.5 m/s	1.5 m/s	3.0 m/s
Charging mode	Automatic charging, support user-defined	Automatic charging, support user-defined	Automatic charging, support user-defined	Automatic charging, support user-defined	Automatic charging, support user-defined
Operating duration	24h operation, support user-defined	24h operation, support user-defined	24h operation, support user-defined	24h operation, support user-defined	24h operation, support user-defined
Battery	Li-ion, 77Ah	Li-ion, 77Ah	Li-ion, 38.5Ah	Li-ion, 24Ah	Li-ion, 6Ah
Navigation	2D bar code visual, support other way	2D bar code visual, support other way	2D bar code visual, support other way	SLAM navigation, support other way	2D bar code visual, support other way
Obstacle avoidance	Infrared laser / ultrasonic (opt.)	Infrared laser / ultrasonic (opt.)	Infrared laser / ultrasonic (opt.)	Laser radar	Laser ranging
Control/Stop precision	<10 mm	<10 mm	<10 mm	<20 mm	<10 mm
Communication	WIFI / IEEE802.11 b/g	WIFI / IEEE802.11 b/g	WIFI / IEEE802.11 b/g	WIFI / IEEE802.11 b/g	WIFI / IEEE802.11 b/g
Status light	Available	Available	Available	Available	Available
Emergency switch	Available, switch at each side	Available, switch at each side	Available, switch at each side	Available, switch at each side	Available, switch at each side
Protection grade	IP54	IP54	IP54	IP54	IP54