



Geek+

# RoboShuttle™ System

Improve the Efficiency, Flexibility and Storage Capacity of your Warehouse

# Geek+ RoboShuttle™ Bin-to-Person picking solution

Geek+ Roboshuttle uses our next generation Bin-to-Person C-series robots, C200M and C200S, featuring high picking efficiency, high-density double-deep storage capabilities, and narrow aisle design.

Make full use of vertical warehouse space with C200S, an efficient solution compatible with multi-floor layouts, or maximize storage capacity and flexibility with C200M's multiple bin-picking function and modular design, suitable for single-floor layouts.

## Efficient

- High picking efficiency: 300 bins / hour / station
- 99,99% accurate picking

## Flexible

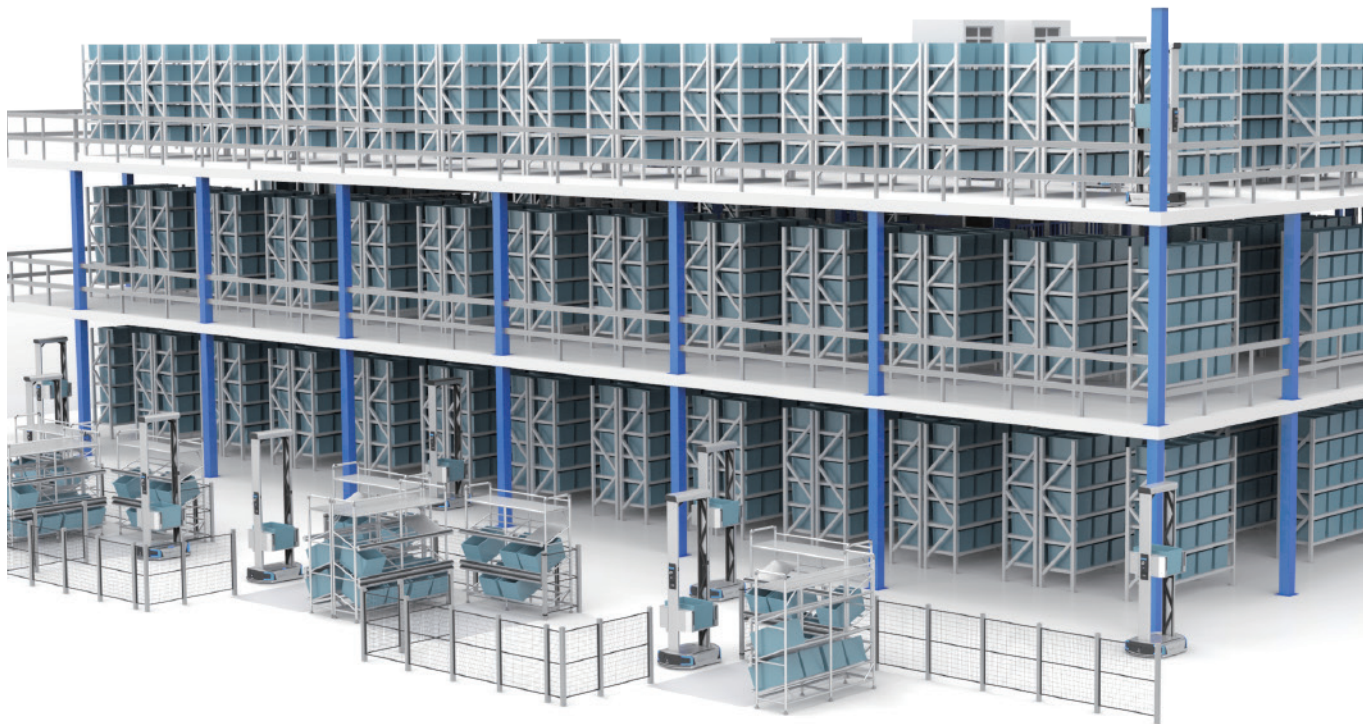
- Fast implementation and low floor load requirements
- Flexible to fit customers' existing shelves and mezzanines
- Utilizes existing shelving system and infrastructure

## Cost saving

- Low investment and shorter payback period
- No need for high-precision rails and easy to maintain
- Compact high-density storage

## Scalable

- Flexibly add robots and workstations to expand operations and manage peak periods, and underlying growth demands



**Geek+ RoboShuttle™ system was certified "Best of Intralogistics 2020" by the world-renowned IFOY award, one of the industry's most prestigious recognitions.**

# Single Bin-to-Person Roboshuttle

The AMR solution with the strongest bin-picking capacity

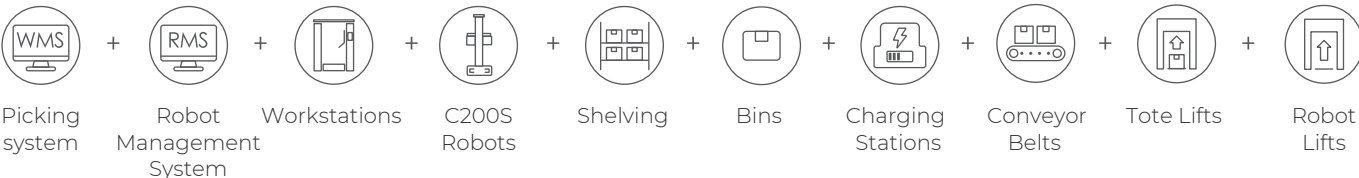
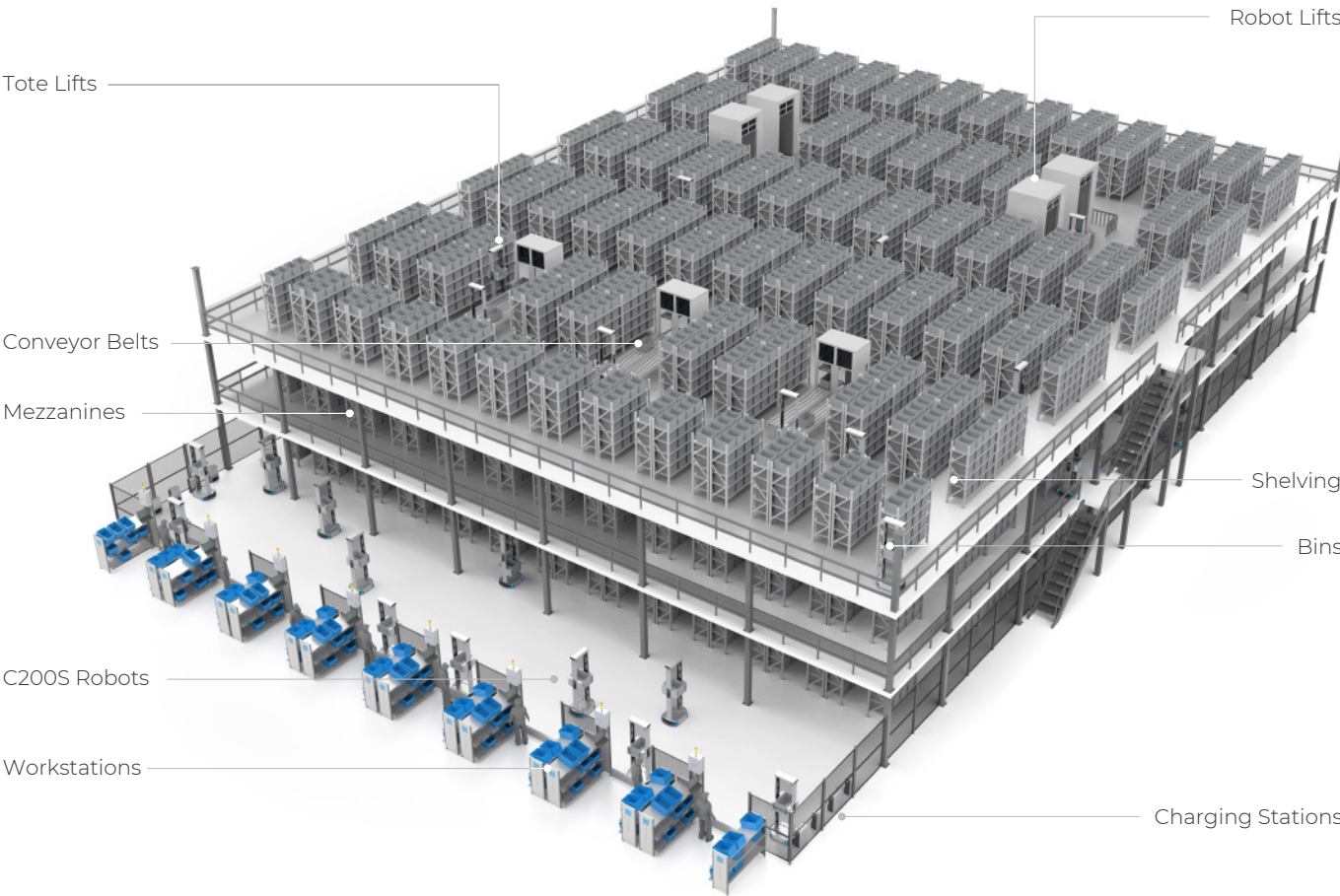
C200S Single Bin-to-Person picking robot transfers ordered goods from the shelves to and from the workstation, automating the process of picking, replenishment, reverse logistics, and inventory checking. C200S is a highly efficient solution compatible with multi-floor layouts.

**Industry Application:**

E-commerce, pharmaceuticals, apparel, cosmetics, retail, 3PL, manufacturing and 3C.

**Application Scenarios:**

Small parcel picking suitable for pharmaceuticals, apparel, cosmetics and more.







C200S



▲ C200S Robot

## Customer value



**High efficiency**  
2-3 x picking efficiency



**Fast ROI**  
1-3 year return on investment



**Reduced labor costs**  
Reduce manual operations



**Quick implementation and flexible scaling**  
Flexibly scale operations to meet peak periods and fluctuating demand

## Pain points

Low picking efficiency;  
C-product picking is time consuming

Rebuilding a warehouse can take up to  
6 months and implies costs for rent of  
temporary space and delayed business  
operations.

Warehouse space is not fully utilized  
with low storage capacity.

## Solutions

Bin-to-Person Model, eliminates redundant and time-consuming tasks of  
warehouse employees.

By letting robots transfer items from shelf to workstation, the operations will be  
more ergonomic and allow the employee to focus on more value added tasks.

Fast implementation: flexible to fit customers' existing shelves and mezzanines,  
utilizing existing infrastructure.

C200S robot can operate on mezzanines, fully utilizing vertical space for  
maximum storage capacity.

# Double-Deep Bin-to-Person Roboshuttle

The AMR solution with the strongest single-layer storage capacity

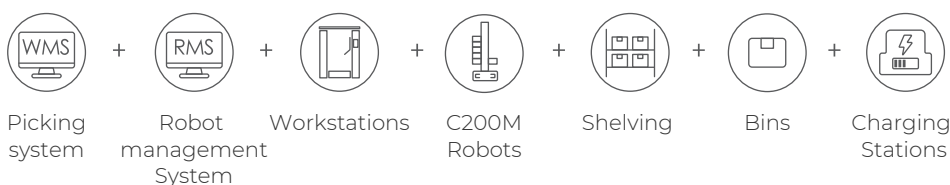
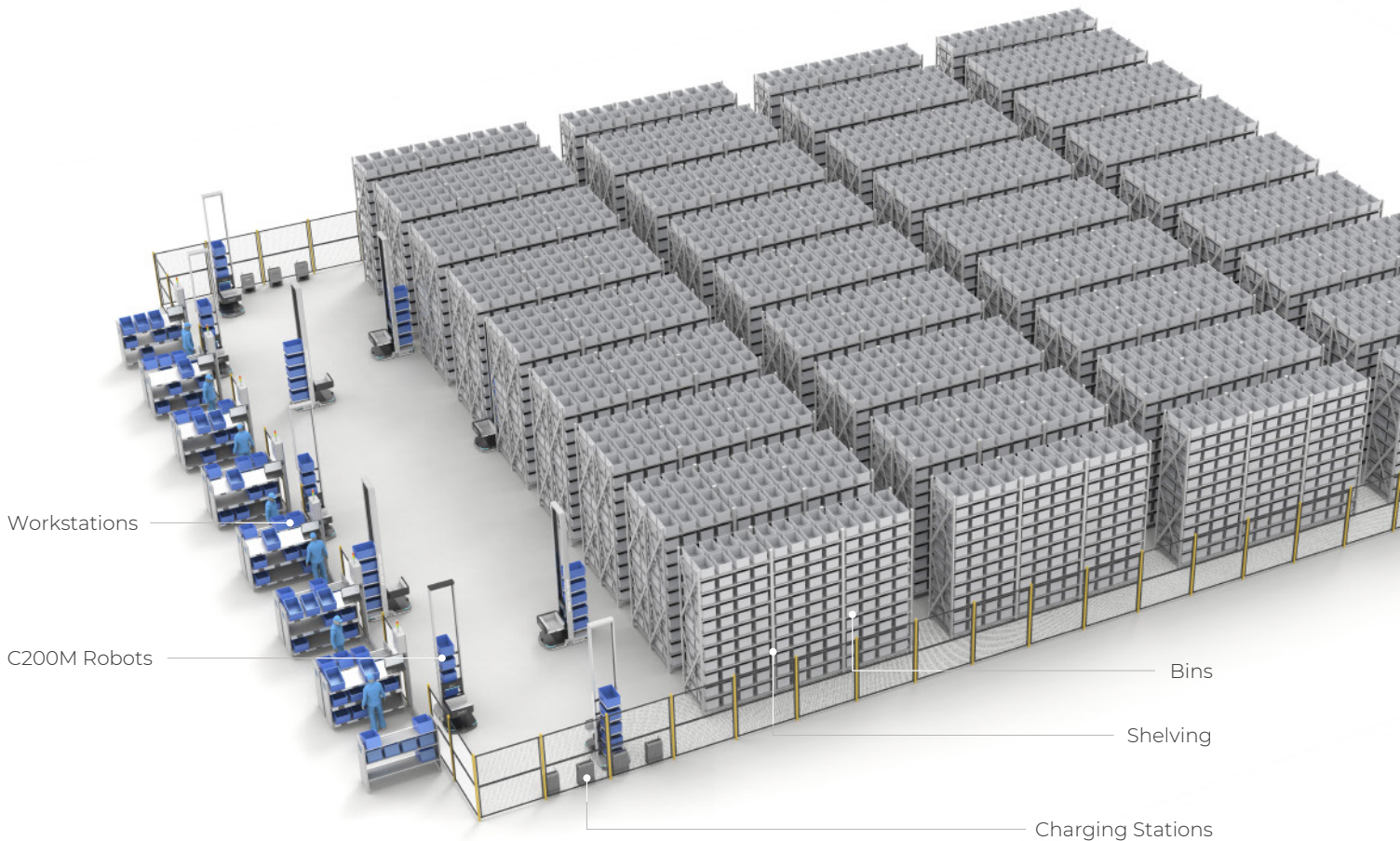
C200M Double-Deep Bin-to-Person robot can operate 1m narrow aisles and reach 5m of height. Its extended arms can access 2 bins at once, making full use of 3-dimensional space on single-floor layouts. C200M can transfer up to 5 bins to and from the workstation, automating the process of picking, replenishment, reverse logistics, and inventory checking.

## Industry Application:

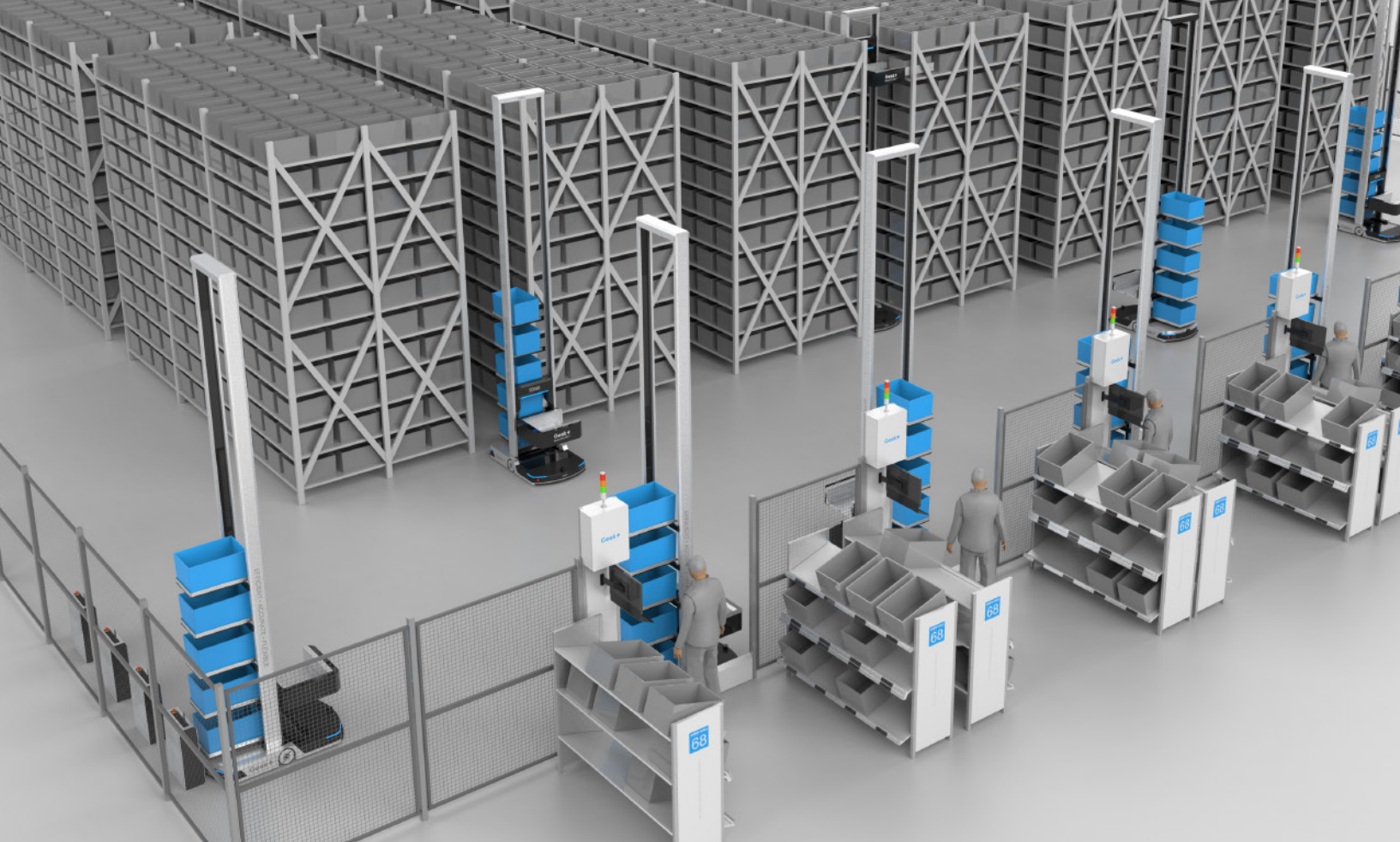
E-commerce, pharmaceutical, apparel, cosmetics, retail, 3PL, manufacturing and 3C.

## Application Scenarios:

Small parcel picking suitable for pharmaceuticals, apparel, cosmetics and more.







## Customer value



**Strong single-layer storage capacity**  
2.5 x storage capacity of manual warehouses



**Flexible integration of other robots and infrastructure**  
Can work together with existing infrastructure and equipment to support conveyor docking, robot integration, and more



**Short installation period and fast to go-live**  
Transportation and installation of components are flexible

## Pain points

Warehouse space is not fully utilized with low storage capacity.

Robot design does not fit with existing shelves and racking, leading to costs for adjusting infrastructure.

## Solutions

C200M is equipped with two 1.5m telescopic fork arms that can access two bins at once. The design enables the robot to operate 1m narrow aisles, for better use of warehouse space.

Modular door frame: adjust the height of the door frame to fit the height of existing shelves.

C200M



▲ C200M Robot

# Roboshuttle Robots




Model	C200S	C200M
Robot	C200S	C200M
Dimensions	L950 x W702 x H2500mm	L1490 x W870 x H2500~5000mm
Self weight	270kg	350kg
Maximum payload	40kg	200kg
Maximum lifting height	2200mm	4350mm
Full range lifting time	8s	—
Pick up time/return time	4.1s	—
Maximum speed	2m/s	1.8m/s
Maximum rotation speed	90°/1.5s, 180°/2s	90°/2s, 180°/3s
Positioning accuracy	<10mm	<10mm
Navigation	Inertial + QR code visual navigation	Inertial + QR code visual navigation
Obstacle detection method	Defaulted infrared obstacle avoidance, support for lidar; 2m infrared light/3m laser	3m laser
Battery	Lithium, DC50.4V, 39Ah	Lithium, DC50.4V, 42Ah
Operating time	Charging time: 10min; operating time: 2~3h; Support user-defined charging time and operating time	
Battery life	Full charging and discharging >2000 cycles	
Certification	CE	CE
Bin size	L400 x W300 x H200 ~ L600 x W400 x H500 mm	
Operating temperature	-20~50°	-20~50°
Charging temperature	>0°	>0°



# Geek+ Comprehensive Support and Life-cycle Service Experience

Comprehensive support services

Life-cycle services

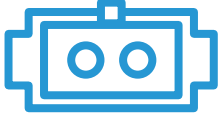


<b>1</b> Training	<b>2</b> Technical hotline	<b>3</b> Remote support			
<b>4</b> On-site service	<b>5</b> Peak support	<b>6</b> Resident services	Solution Implementation Operation & maintenance		
					
			Expansion Upgrade		

				
7x24h	Multilingual user interface	Cloud-based service platform	Authorized partners	Regional service center

## The World's Leading AMR Solutions Provider For Smart Logistics

Our mission as a global AMR company is to build the infrastructure network for smart logistics and establish a fully automated and intelligent supply chain globally.

		
<b>10,000+ Robots</b>	<b>700,000+ m²</b>	<b>300+ Patents</b>
Highest output globally	Largest project deployment area	Strongest multi-industry experience





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