

MOVING THE WORLD
INTELLIGENTLY



Model	P800R	P1200
Dimensions	1095*830*275mm	1325*1020*275mm
Power Supply	Lithium-ion battery, automatic charging	Lithium-ion battery, automatic charging
Maximum Lifting Payload	1000kg	1200kg
Standard Shelf Size	1220*1020mm	1250*1250mm~1600*1600mm
Drive Mode	Two-wheel differential drive	Two-wheel differential drive
Maximum Speed	2m/s	2m/s
Position Accuracy	<±10mm	<±10mm
Endurance	8h	8h
Security	Low position obstacle avoidance detection	Infrared obstacle avoidance, support laser radar
Brake Mode	Drive motor braking	Drive motor braking
Control Mode	Automatic control, manual control	Automatic control, manual control
Authentication Device	QR code	QR code
Working Temperature	-10~45 C	-10~45 C

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PopPick

Next-Gen Picking Solution

One-stop solution, fully compatible with goods of varying sizes

Higher throughput, hitting 10 totes per move

Super dense, 4x increase in storage density

50% cheaper than traditional solutions

Workflow: Totes stored on movable racks are carried by P-series picking robots to the PopPick workstation. The target totes are picked automatically by the station and presented to the operator for easy picking. Compatible with items of varying sizes as well as pallets.

Applications: Pieces, whole totes, and pallet picking; small/medium/large picking; goods consolidation.

Applicable Industries: Retail, Apparel, Pharmaceuticals, 3PL, Cosmetics, E-Commerce, Manufacturing, Books, 3C, etc.

What makes it special?



PopPick Station Automated tote picking

- Totes are automatically selected and presented to the operator to be ergonomically picked with two picking points **maximum efficiency can be reach up to 650 totes/hour/station.**
- Small and medium-sized goods are picked from totes, while large and specially shaped goods are picked manually without order-combinations.
- Modular design for quick and convenient on-site implementation.



High-density and full-category mixed storage and picking

- Mixed storage of totes, racks, and pallets.
- **High-density storage** is enabled by densely stacking 3 columns of totes in one rack with only 20mm gap between totes.



Dynamic Slotting

- Automatic unmanned organization of totes based on order forecast at night or during idle time.

Why should you have it?



Record-Level Compatibility

- One station to store and pick items small, medium, and large.
- Totes, racks, and pallet storage.
- Easily adaptable to all categories and scenarios.



Record-Level Storage

- Tote spacing as little as 20mm.
- Storage density is 1.25x that of traditional tote-to-person or mini-load solutions.



Record-Level Throughput Capacity

- Dynamic slotting function improves hit rate by more than 10 totes for one move.
- P-series picking robots have intelligent navigation; deployment density is more than double that of tote robot; maximum throughput is more than double.



Record-Level Human Efficiency and ROI

- High flexibility with rapid deployment under one month.
- P-series picking robot costs only half or even lower than that of the tote or miniload robots, while the handling efficiency is much higher, saving 50% on costs compared with traditional solutions.

PopPick Station

Rack Dimension	1340×1260×3580mm
Tote Dimension	600*400*300mm / 600*400*340mm
Qty. of Totes Stored on a Rack	60 totes (10 layers) / 54 totes (9 layers)
Overall Dimensions	4540×1660×4190mm
Maximum Picking Efficiency	650 totes/hour/workstation
Maximum Payload per Tote	20kg
Max. Tote Picking Height	3660mm
Min. Tote Picking Height	450mm
Time to Retrieve/Return Tote	2 s
X-axis Speed	1.5 m/s
X-axis Acceleration	2 m/s ²
Z-axis Speed	3 m/s
Z-axis Acceleration	3 m/s ²
Precision	±1mm

