

MOVING THE WORLD
INTELLIGENTLY



Geek+



RoboShuttle

Tote-to-Person Picking Solution

High Flexibility

- Replaces fixed equipment
- P40 travels under racks to save aisle space
- Strong robustness for non-stop work flow in case of single point of failure

High Efficiency

- Simultaneous operation of RS and P40 to maximize efficiency
- Cache in-demand SKUs on lowest shelf to speed up picking process
- Automatic storage optimization at night and during idle time

High Density Storage

- Rack height of 8M
- Double deep storage
- 5X increase of storage capacity

RoboShuttle is a next-generation, high storage density, tote-to-person picking solution with optimal cost efficiency and robust operational flexibility. The RS+P40 solution combines the advantages of the two different robots: RS moves totes from storage rows for collection, and P40 swiftly carries the totes to an operator at a picking station.

Applications: complex whole container storage and picking, MFC picking, small-sized picking

Applicable Industries: apparel, pharmaceuticals, retail, e-commerce

P40: flexible and convenient

A tote-carrying robot equipped with a lifting module that adjusts the tote to a suitable height for the operators, enabling an ergonomic work process which increases picking efficiency. P40 is 20% faster with quicker acceleration speeds than similar products and can travel under racks to save aisle space. Combined with RoboShuttle, the two robots form a fully flexible tote-to-person picking solution.

Model	RS8-DA	RS5-DA	P40
Dimensions (mm)	1800*1000*4630 (Maximum height 8145)	1490*870*5100	640*440*295 (Maximum height 700)
Self Weight (kg)	1000	500	75
Maximum Payload (kg)	320	240	40
Minimum Aisle Width (mm)	1150	1000	720
Full Range Lifting Time (s)	8	12	8 (up) / 4 (down)
Operation Cycle Time (s) (take or return container)	3 (Single Deep) 5 (Double Deep)	3 (Single Deep) 5 (Double Deep)	/
Rack Height (mm)	8220	5265	/
Standard Container Dimension (mm) (L*W*H)	650*(200~450)*(150~400)	600*(200~400)*(150~400)	Tote compatible
Navigation	Inertial + QR code visual navigation	Inertial + QR code visual navigation	Inertial + QR code visual navigation
Stop Accuracy (mm)	<±10	<±10	<±10
Maximum Speed (unloaded) (m/s)	1.8	1.8	2.8
Maximum Rotation Speed	90°/ 2s, 180°/ 3s	90°/ 2s, 180°/ 3s	90°/ 1.5s, 180°/ 2s
Obstacle Detection Distance	3m laser	3m laser	3m laser
Power Supply	Lithium-ion battery, DC50.4V (typ), 65Ah	Lithium-ion battery, DC50.4V (typ), 42Ah	Lithium-ion battery, DC50.4V (typ), 12Ah
Battery Life	>2000 cycles	>2000 cycles	>2000 cycles
Run Time	Charging for 10 minutes, working for 3 hours	Charging for 10 minutes, working for 2-3 hours	Charging for 10 minutes, working for 1 hour
Robot Working Temperature	0~45°C	0~45°C	-10~45°C
Certification	CE/FCC/UL	CE/FCC/UL	CE/FCC/UL

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