

Chuck AMR

The Autonomous Workhorse for Any Warehouse.

Chuck is an AMR designed for rapid deployment and collaboration with your employees. It's currently used to solve automation challenges in over 100 sites across Europe and North America.

Chuck is designed to optimize fulfillment workflows in warehouses of all sizes. Collaborating with workers and other Chucks via powerful cloud orchestration software and utilizing system directed picking, Chuck is one of the largest, most adaptable and most flexible fulfillment AMRs available today.

With best-in-class configurability, including a wide variety of accessories, Chuck suits any warehouse. A true 'cobot', Chuck is here to help your employees work and stay on task more effectively, leading them via system-directed prompts to minimize walking, carrying and pulling. Adaptive navigation technology allows Chuck to move rapidly yet safely through busy warehouse environments, avoiding obstacles while maintaining the most efficient routing.

Benefits to your operations:

- Clear next-task instructions eliminate confusion, ensuring optimal routes and picks every time.
- Outsourcing strenuous manual activity to Chuck (e.g. walking, carrying, and pulling tasks) improves the safety, comfort and satisfaction of your workforce.
- Simple, fast training reduces downtime, allowing new staff to achieve full productivity in minutes, not days.

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Chuck AMR is a game-changer for modern warehouses, combining advanced hardware and smart software into one mobile robot. Designed for efficiency, scalability, and ease of use, Chuck empowers teams to streamline their operations and work smarter, not harder.

Key Features

BEST-IN-CLASS CONFIGURABILITY:
Customize to suit a wide range of operational needs.

HUGE CAPACITY:
Carry dozens of orders at once, with a payload of up to 200 pounds or 90kg.

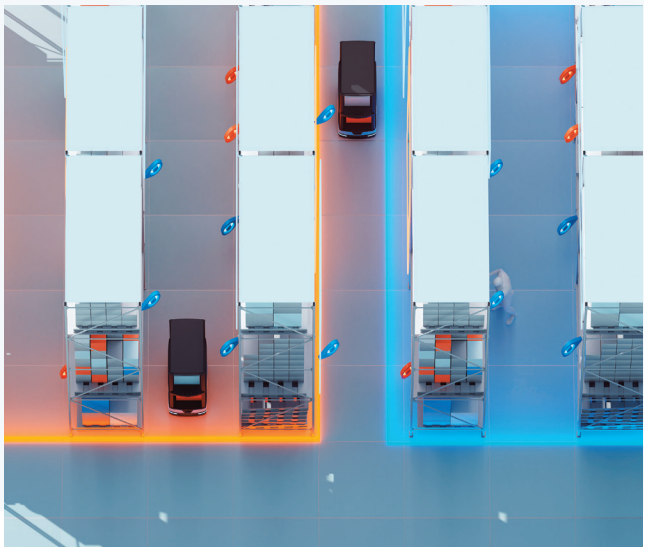
AI NAVIGATION:
Travel safely through busy warehouses, avoiding obstacles and enhancing overall operational flow.

HUMAN-FRIENDLY INTERFACE:
Reduce onboarding to 15 minutes and gives associates all the SKU information they need for fast picking.

BATTERY EFFICIENCY:
Keep your fleet running 24/7, ensuring near uninterrupted operation throughout the busiest shifts.



v1.1





Key Statistics:

2-3x
Increase In Pick Rates

90%
Reduction In Training Time

Technical Specifications

DIMENSIONS:

Overall Height: 63 in (160cm)
Base Width: 24 in (61cm)
Base Depth: 42 in (106.7cm)
Top Canopy Dimensions: 22.5 in x 36 in (58cm x 91cm)
Chuck Shelf Dimensions: 23.75 in x 36 in (60cm x 91cm)
Chuck+ Shelf Dimensions: 29.75 in x 36 in (75cm x 91cm)

WEIGHTS:

Base Unit (no shelves)
- 127 lb (57.6 kg) without battery
- 154 lb (69.9 kg) with battery

Battery Weight: 27 lb (12.2 kg)
Chuck Per Shelf Weight: 15 lb (6.8 kg)
Chuck+ Per Shelf Weight: 19.4 lb (8.8 kg)
Chuck+ Base Level Width Extender Weight: 12 lb (5.4 kg)
Total Capacity (Base Unit, no shelves): 215 lb (97.5 kg)
Per Shelf Capacity: 100 lb (45.4 kg)
Top Canopy Capacity: 30 lb (13.6 kg)

TECHNICAL:

Battery: 25.6V, 42Ah
Wi-Fi: IEEE 802, 11a/b/g/n/ac
Wireless LAN 2T2R

OPERATING CONDITIONS:

Operating Temperature: 2°C (36°F) to 35°C (95°F)
Storage Temperature (>30 days): -20°C (-4°F) to 25°C (77°F)
Transit Temperature (<30 days): -45°C (-49°F) to 60°C (140°F)
Charging Temperature: 6°C (43°F) to 35°C (95°F)
Relative Humidity: Up to 65% (non-condensing)
Elevation: -100m to 2000m
Floor Surfaces: Concrete, ResinDek® with TriGard®
Floor Flatness: FF 25
Floor Expansion Joint Gaps: Up to 19mm (0.75 in)
Floor Elevation Changes: Up to 6.4mm (0.25 in)
Live Load (Uniform Distributed Load): 250 kg/m² (51 lb/ft²)
Lighting for Camera: Minimum: 5 fc (54 lux);
Recommended: 10 fc (108 lux)
ATEX: Not suitable for potentially explosive environments

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