

OMRS/
Porter AMR

Lower Your Cost Per Unit with the Most Versatile AMR for Large Payload Fulfillment Tasks

Porter automates pallet and cage handling tasks such as cross-docking, putaway and inventory moves, and collaborates with your workers on full-case and piece picking tasks - all orchestrated by our patented, system-directed fulfillment execution software.

Built on decades of combined automation experience from Ocado and 6 River Systems' Chuck AMR collaborative cart, Porter seamlessly integrates with your existing infrastructure and optimizes your workflows, solving key labour challenges and maximizing productivity.

Key Use Cases

Case Picking
Use Porter for large goods or caseloads of smaller items.

Piece Picking
Use Porter for batch picking or discrete order picking of individual items.

Point-to-Point Moves
Use Porter to transport pallets from A to B within the warehouse.

Inbound & Outbound
Use Porter to support pallet movement, retrieval and putaway.

Key Features

CONNECTED ECOSYSTEM
AI-powered fulfillment execution software orchestrates your Porter and Chuck AMR fleets and groups tasks into dynamic work zones, in real-time.

NO ADDITIONAL INFRASTRUCTURE
Operates with existing racking and WiFi, no pallet stands or on-premise server required.

COMPATIBLE WITH ALL PALLETS & CAGES
Pick and place any type of open and closed pallet direct from the floor with 1,500 kg (3,300 lb) payload capacity, with adapters for cage handling.

BACK-TO-BACK PALLET PICKUP
Ability to pick up back-to-back pallets from a pallet field.

NO COUNTERBALANCE
Compact AMR with no counterbalance supports tight turning radius for narrow operating environments.

MANUAL TILLER & TOUCHSCREEN
Manual tiller for quick, intuitive interventions, control buttons and integrated touchscreen with live front-camera display for obstructed-view navigation.

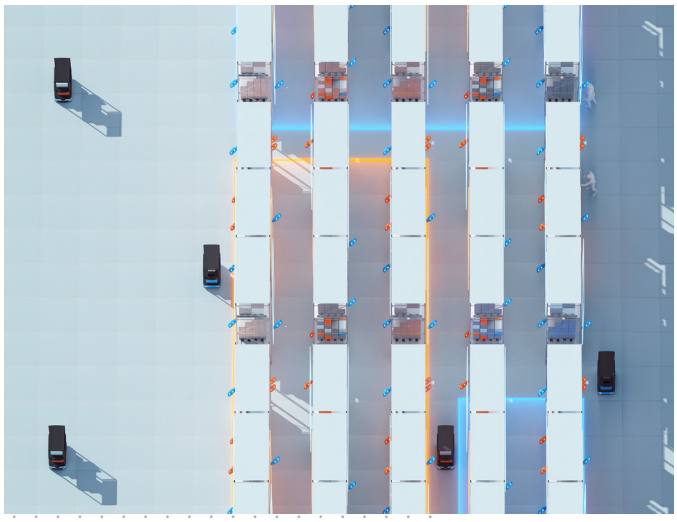
SAFE, INTELLIGENT NAVIGATION
Intelligent navigation ensures precise, free and safe movement in dynamic environments. Combination of lidars and **Orbbec Gemini 2L** Stereo Vision depth cameras for navigation, pallet detection, positioning, and navigation.



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Key Benefits

Reduce Fulfillment Time: with our system-directed approach, pick and pass complex orders across multiple devices including Porter, Chuck and our Mobile Fulfillment App to shorten order completion times and meet ever-tighter SLAs.

Deploy in 14 Weeks, Scale on Demand: quickly and easily deploy or scale back Porters to suit current throughput or seasonal peaks, accommodate growth, and maintain optimal performance levels.

Foster a Healthier, More Productive Workplace: reduce dependency on manual forklifts and certified forklift operators, and remove the number one cause of human injury in warehouses.

Onboard in 15 Minutes: train associates with our modern, intuitive user interface common across all devices. Seamlessly move any associate across wall-to-wall tasks while maintaining high productivity and low error rates.

Technical Specifications

ASSET HANDLING:

Pallet Types: Open and Closed (incl. CHEP, GMA, EPAL)
Rated Load: 1500kg (3300lbs)
Distance between Pallets: Back to Back
Cage Handling: Adapter to support up to 2 cages

PERFORMANCE:

Max Speed: 2m/s (4.5mph)
Max Lift Height: 280mm (11in)
Positioning Accuracy: ±20mm / ±0.5°
Recovery Method: Manual Tiller

CHARGING:

Performance Duration: 7-8 hrs (depending on application)
Charge to Run Ratio: 10-15%
Charger: Auto-charger with 5KW capability
Battery: 48V nominal

OPERATING ENVIRONMENT:

Operating temperature: 0 to +35°C
Operating humidity: 20-60%
Min Aisle Width (one way traffic): 1600mm (63in)
Min Aisle Width (two way traffic): 3200mm (126in)
Min Induct/Drop-off lane width: 1300mm (51in)

SIZE & INFRASTRUCTURE:

Dimensions LxWxH: 1770 × 970 × 2000mm
Fork Dimensions LxW: 1200 × 575mm
Service Weight: 350kg
Communication: Wi-Fi

SAFETY STANDARDS:

CE certified
TUV certified
PLd Collision Avoidance using 4 × 2D laser scanning lidars
PLd 2x emergency stop switch
PLd Speed control
Acoustic & visual signaling

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