

Integrated Warehouse Automation

Prime Robotics is a premier provider of end-to-end automation solutions tailored for distribution centers and warehouses.

Prime's suite of robot and execution software solutions transform fragmented workflows, empowering clients to unlock operational productivity and efficiency.

Committed to revolutionizing warehouse, supply chain, and factory operations, Prime strives to elevate businesses through best-in-class automation solutions and services.

MobileShelf

Goods-to-Person Robot Shelf-Moving Robot

Prime Robotics is the leading provider of efficient and scalable solutions for Goods-to-Person (G2P) picking and packing operations. Our innovative MobileShelf Autonomous Mobile Robot (AMR) and pick stations significantly increase picking speeds and number of picks per hour—improving order throughput and accuracy. Prime's G2P pick solution is an intelligent, scalable, and flexible system that helps eliminate pick errors, reduce product touches, and save time and money.

Prime's MobileShelf is the ideal solution for automating the pick-and-pack workflow:

- Moves shelves with payloads up to 1,100 lbs.
- Delivers 350+ picks per hour
- Integrates with pick stations to streamline receiving, put aways, picking, packing, and shipping operations in warehouse and e-commerce environments



Integration

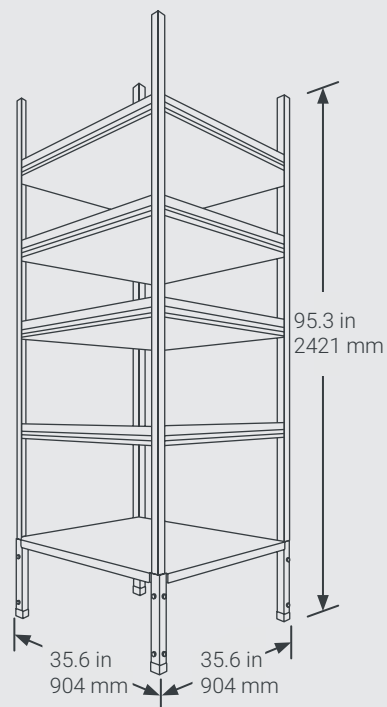
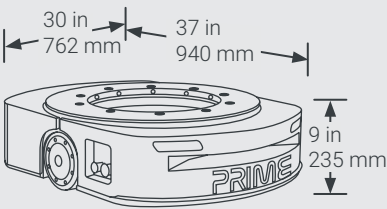
Highly customizable and user-friendly, Prime's execution software provides an intelligent yet simple and scalable solution. Our robots and software seamlessly integrate with any Warehouse Management System (WMS), Enterprise Resource Planning (ERP), Programmable Logic Controller (PLC), or operations management software—making our solutions easy to use and adaptable to unique needs.

Safety

To guarantee a safe working environment, our AMRs are equipped with advanced safety and obstacle avoidance features, including LiDAR, bumpers, and emergency stop buttons. These features enable our robots to operate safely and efficiently, minimizing the risk of accidents and ensuring safety of human workers.

MobileShelf

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MobileShelf Specifications

Model	MobilePallet (MP-4400)
Dimensions (L x W x H)	37 x 30 x 9 in 940 x 762 x 228 mm
Vehicle Weight	463 lbs 210 kg
Payload	1,100 lbs 500 kg
Lift Height	2.4 in 60 mm
Lift Speed	3.0 seconds
Max Speed	3 mph 1.3 m/s
Navigation	QR Code + IMU
Obstacle Avoidance	LiDAR
Position Accuracy	±10mm ±1°
Battery	48V/60Ah Lithium
Charging Method	Manual/Auto
Run Time	~10 hours
Charge Time	<2 hrs
Operation Temperature	32-113 °F 0-45 °C

Platform Specifications

Dimensions (L x W x H)	35.6 x 35.6 x 95.3 in 904 x 904 x 2421 mm
Load Capacity (Each Layer)	220.5 lbs 100 kg
Minimum Shelf Height	1.5 in 37 mm
Bottom Shelf Height from Floor (Min)	9.8 in 249 mm