

End-to-End Automation

Prime Robotics is a dynamic and innovative manufacturer headquartered in Denver, Colorado. We are driven by our mission to deliver end-to-end robotic solutions that enable fully automated warehouse and fulfillment facilities.

At the core of our product portfolio is the Robotic Control Software (RCS), a powerful platform that enables a highly flexible and scalable range of technologies. Our offerings include AMRs, dynamic picking arms, high-density robotic storage systems, and a wide range of pick stations.

With our suite of robots and software solutions, you can achieve an unmatched return on investment (ROI). Our technologies save time and money at every level of your operation, allowing you to streamline processes, boost productivity, and optimize resource allocation. We are dedicated to helping you achieve operational excellence while driving success in your warehouse and fulfillment operations.

Prime's MobilePallet is one of today's most rugged and durable AMRs for pallet and material handling. It has a maximum payload capacity of 4,400 pounds, making it highly capable of tackling even the most challenging projects. By optimizing and sequencing the transportation of all pallets, MobilePallet improves throughput and ensures optimal utilization of resources, thereby maximizing return of investment. MobilePallet seamlessly integrates with other automation solutions, making it an ideal choice for both light-duty and heavy-duty pallet management and material-handling operations.



Integration

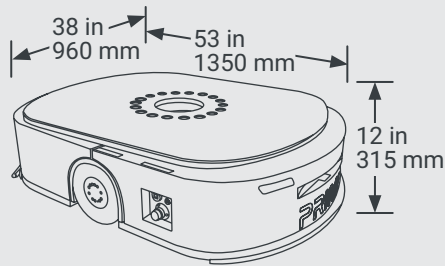
Highly customizable and user-friendly, Prime's automation platform provides an intelligent yet simple and scalable solution. Our solutions can seamlessly integrate with any Warehouse Management System (WMS), Enterprise Resource Planning (ERP), Programmable Logic Controller (PLC), or operations management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

Safety

At Prime, ensuring robot safety is a top priority. To guarantee a safe working environment, our Autonomous Mobile Robots (AMRs) are equipped with advanced safety and obstacle avoidance features such as LiDAR, bump bars, and emergency stop buttons. These features enable our robots to operate safely and efficiently, minimizing the risk of accidents and ensuring the safety of everyone in the work area.

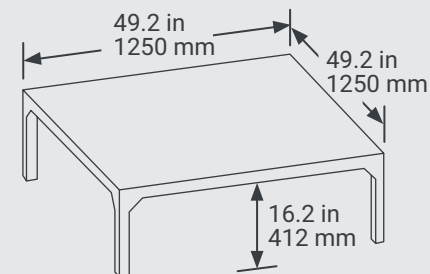
MobilePallet™

Pallet Management & Material Handling AMR



MobilePallet AMR Specifications

Model	MobilePallet (MP-4400)
Dimensions (LxWxH)	53 x 38 x 12 in. 1350 x 960 x 315 mm
Vehicle Weight	1,100 lbs. 500 kg
Payload	4,400 lbs. 2000 kg
Lift Height	3.2 in. 80 mm
Lift Speed	3.0 seconds
Max Speed	2.7 mph 1.2 m/s
Navigation	QR Code + IMU or SLAM
Obstacle Avoidance	LiDAR
Position Accuracy	±10mm ±1°
Battery	48V/60Ah Lithium
Charging Method	Manual/Auto
Charger Power Requirements	110V, 20 Amp
Run Time	~10 hrs.
Charge Time	<2 hrs.
Operation Temperature	32-113 °F 0-45 °C



Platform Specifications

Dimensions (LxWxH)	49.2 x 49.2 x 16.2 in. 1250 x 1250 x 412 mm
Legs/Frame (square tube)	2 x 2 x 0.12 in 50 x 50 x 3 mm
Top Thickness	0.08 in. 2 mm