PRIME robotics

Cold-Adapted Robots

Goods-to-Person Robots for Extreme Temperatures

Prime Robotics' cold-adapted robots are rugged and durable goods-to-person (G2P) autonomous mobile robots (AMRs) and 4-way shuttles for cold storage operations. Equipped to handle heavy pallets and cases, these robots tackle the most challenging projects. By sequencing and optimizing the transportation of pallets and shelves in extreme temperatures, cold-adapted robots improve workplace safety, utilization of resources, and overall throughput—maximizing return on investment.

Prime's cold-adapted robots are the ideal pallet- and shelf-moving AMRs and shuttles for any cold storage warehouse opearation:

- Operate as low as -20 °F
- Move pallets and cases, and shelves and eaches with payloads up to 4,400 lbs.
- Replenish pallets in 10 seconds or less
- Streamline workflows, reduce errors, and ensure quality and safety







Integration

Highly customizable and user-friendly, Prime's execution software provides an intelligent yet simple and scalable solution. Our cold-adapted 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 Arctic robots 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.

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.

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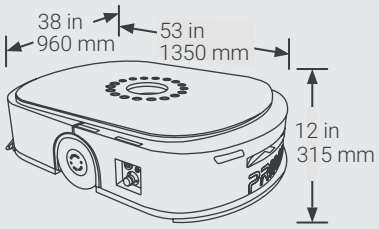

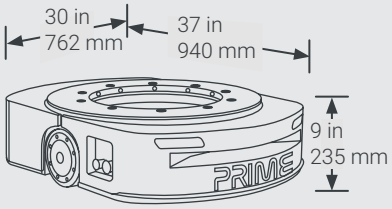

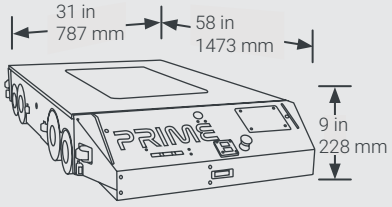

Cold-Adapted Robot Specifications

Operation Temperature	Down to -20°F Down to -28 °C
Navigation	Advanced QR Code + IMU or SLAM
Max Payload	4,400 lbs 2000 kg
Integration	Compatible with all major WMS, ERP, and OMS systems
Safety Features	2D LiDAR, bumpers, E-Stop button
Run Time	~8 hours
Charge Time	<2 hours