Robotic Order Batch Picking
Modular order fulfillment automation

Order fulfillment is rapidly changing, and your warehouse must keep up with demand. When manual carton flow or shelf picking no longer support your customers’ increasing expectations, automation is the answer.

Bastian Mobile Robotics is dedicated to modular and flexible warehouse automation. Our robots are designed to improve efficiency while requiring minimal modifications to your infrastructure. With picking rates of 600+ lines per hour of multiple eaches, mobile robotic automation raises the standard of traditional picking rates.

Robotic accuracy means worrying less about picking errors and bottlenecks. Gain throughput with the capability of operating 3-shifts without recharging your fleet. A mobile robotic solution allows your operations to run with ultimate precision and speed, positioning your order fulfillment ahead of the market.

Improve Order Fulfillment with Mobile Robotics

Autonomous mobile robots transform order fulfillment operations of any warehouse setting by easily adapting to your infrastructure and improving costly inefficiencies with quick, precise movements. Equipped with an intelligent arm and vision system, mobile robots serve as an alternative to traditional pick-to-light.

Mobile robots operate as a robot-to-goods solution by retrieving and picking multiple types of products and SKUs for various orders at a time. Each robot is wirelessly operated by the a Master Control Program (MCP) that integrates with your facility’s Warehouse Management System (WMS) for maximum control and visibility of productivity.

Simulation

Computer simulation analysis helps visualize the impact of mobile robot implementation in regards to operational adjustments. It also answers what-if questions and can help determine potential throughput rates.

Safety

Unlike AGVs designed to operate in pre-established traffic lanes, mobile robots work around and with operators and other vehicles. Safety is a critical part of mobile robot design; therefore, Bastian Mobile Robotics produces robots to meet all safety standards.

Fleet Management

Modular design allows you to easily scale by adding more robots as needed. Build a fleet that seamlessly operates to get products picked, packed and shipped efficiently. Manage them all from your fleet’s MCP that works with your WMS/WCS to be your frontline manager.

Having a fleet means your facility is prepared for sudden maintenance or changes in demand. Simply park a mobile robot for maintenance while the rest maintain normal operations. Replace robots as needed without productivity interference.

Benefits of Mobile Robotics

- Reduce labor costs
- Increase throughput one robot at a time. Robots work seamlessly in a fleet.
- Scalable for shifting market demands, such as seasonal shopping.
- Minimize costly turnover rates
- Meet and exceed goals with reliable robotic technology
- Gain better space utilization and increase in cube density when comparing to conveyor automation.
- Save energy with mobile robots. Robots flexibly rely on energy-efficient batteries and ultra-capacitors and can recharge during a time of day or week.
- Charge your fleet wirelessly while they travel through aisles.
- Know your employees and equipment are safe with mobile robots designed for safe interaction in the workplace.

How Mobile Robotics Integrate with Systems

Integrating a mobile robot solution to your warehouse requires evaluation of data based on your existing system, such as usable floor space, optimal throughput, and inventory replenishment requirements. Mobile robots are designed to easily adapt to your warehouse with minimal infrastructural adjustments and will begin improving operations immediately. Mobile robots will also easily integrate with any WMS/ERP system.
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