Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 73.9%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse	Location	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	69.6%	1,871	3,884	95.7%	72.2%	Improvement Needed
Distribution Center B	Dallas, TX	67.1%	2,318	2,243	95.9%	74.7%	Improvement Needed
Distribution Center C	Atlanta, GA	66.3%	2,756	3,870	95.5%	71.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.6%	2,491	2,275	99.5%	89.4%	Optimized
Distribution Center E	Newark, NJ	99.4%	1,378	3,500	95.2%	62.0%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%

- Implement voice-picking system to improve accuracy to 99.8%
- Upgrade WMS integration for real-time inventory visibility
- Add automated sortation system for small package handling
- Implement predictive analytics for demand-based staffing
- Consider AS/RS system for high-velocity SKUs