Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 71.5%
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	86.9%	1,775	2,037	96.8%	70.5%	Improvement Needed
Distribution Center B	Dallas, TX	57.7%	2,015	3,408	98.7%	68.7%	Improvement Needed
Distribution Center C	Atlanta, GA	55.2%	2,113	3,496	96.2%	82.7%	Optimized
Distribution Center D	Los Angeles, CA	50.8%	1,040	2,979	96.8%	68.5%	Improvement Needed
Distribution Center E	Newark, NJ	53.5%	2,447	3,977	96.7%	67.1%	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