Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 69.9%
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	71.3%	2,148	3,791	95.8%	83.4%	Optimized
Distribution Center B	Dallas, TX	63.0%	2,388	2,027	95.2%	64.9%	Improvement Needed
Distribution Center C	Atlanta, GA	122.6%	1,556	2,643	95.9%	72.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	122.8%	1,491	1,992	97.4%	63.4%	Improvement Needed
Distribution Center E	Newark, NJ	87.8%	2,149	2,629	96.5%	65.1%	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